

Office of the Provost, Office of Research,  
Scholarship, and Sponsored Programs &  
The Robert R. Muntz Library present

# A Celebration of Scholarship and Creativity

ANNUAL REPORT OF  
FACULTY SCHOLARSHIP

September 2022 - August 2023

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# From the President



I am pleased to introduce the latest publication documenting the powerful and groundbreaking research endeavors of our esteemed faculty, students and staff. “A Celebration of Scholarship and Creativity” showcases the innovative discoveries, insightful analyses and impactful contributions from the sciences, humanities, engineering, arts and medicine.

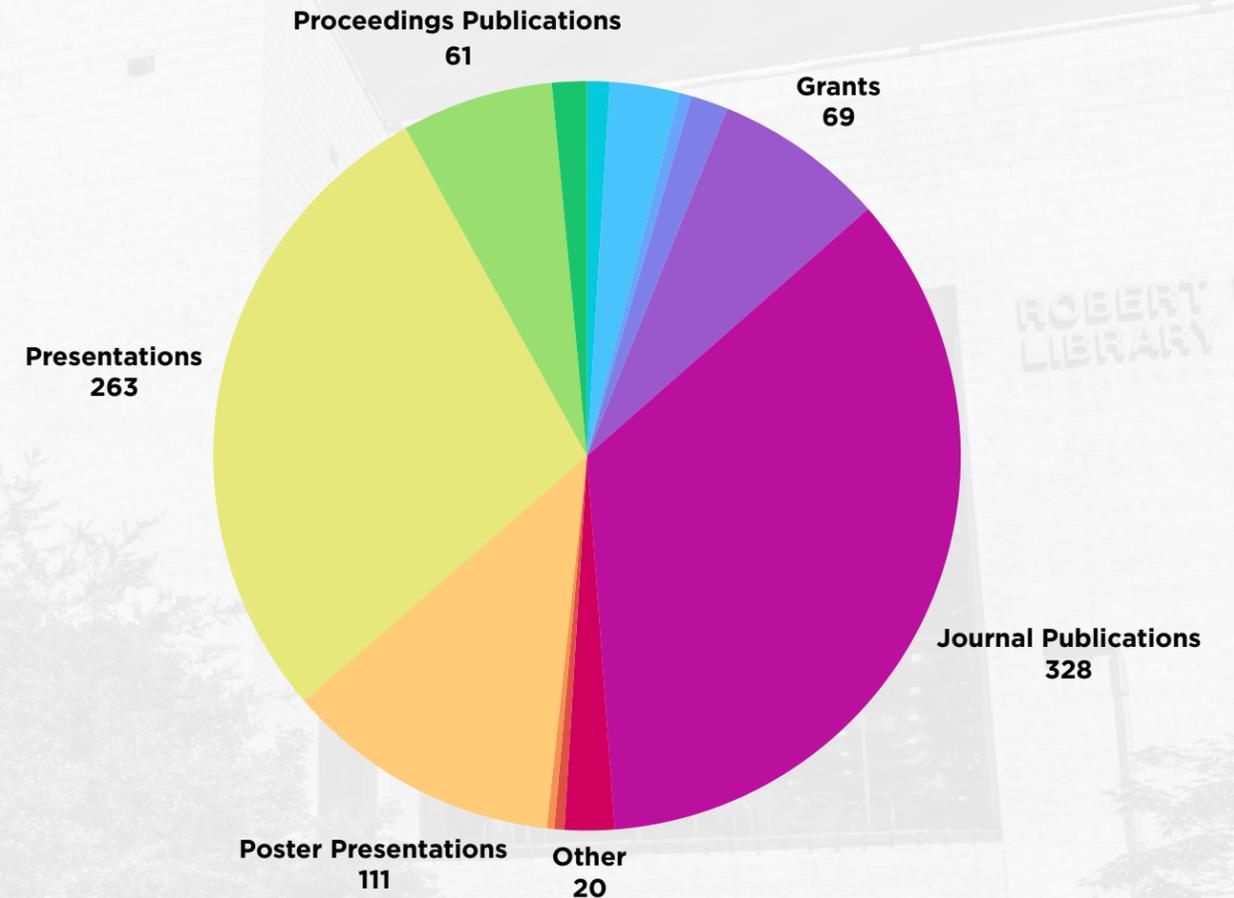
Our research continues to push the boundaries of what is possible and explore new insights and solutions to complex challenges facing our global society. While highlighting the talent and dedication of our research community, this work also serves to underscore the university's commitment to fostering a culture of inquiry, discovery and creativity.

I invite you to explore the wealth of knowledge and innovation captured in these pages and join us in celebrating the outstanding achievements of our research community.

As I conclude my tenure as president, I would like to share a quote from Nelson Mandela, which I feel is quite appropriate. “It always seems impossible until it is done.” I implore our fine researchers to keep doing the impossible. I will applaud you forever.

Kirk A. Calhoun, MD, FACP  
President

- Books
- Chapters
- Creative Performances
- Creative Productions
- Grants
- Journal Publications
- Other
- Other Teaching Materials
- Patents
- Poster Presentations
- Presentations
- Proceedings Publications
- Reviews



*This annual review is compiled to promote scholarship and document a record of the published and creative works of The University of Texas at Tyler faculty for academic year 2022-23. Information was compiled from Faculty180®, the University's platform for faculty activity reporting and the UT Health Science Center at Tyler.*

The Robert R. Muntz Library and the Watson W. Wise Medical Research Library staffs are pleased to gather, curate, and acknowledge The University of Texas at Tyler faculty's scholarly and creative works. As primary knowledge supporters for our institution, the librarians work with faculty through individual consultations, resource instruction, medicated searching and systematic review support to promote their academic endeavors. On behalf of the University Libraries, I congratulate you on your scholarly and creative accomplishments for the 2023 academic year.

Becky McKay, MA, MLIS  
Dean of Libraries

# College of Arts & Sciences

The College of Arts and Sciences at The University of Texas at Tyler is a crossroad for academic exploration and innovation, seamlessly integrating learning with life through an unwavering commitment to discovery. Our dedicated faculty and staff provide top-tier education and scholarship across a broad spectrum of disciplines within the humanities, sciences, arts, and social sciences.

At the heart of our college lies a deep respect for the scholarship and expertise of our faculty. The arts and sciences are vital to the intellectual and cultural fabric of any society, and our faculty's diverse contributions significantly enhance understanding and advancement in various fields. This past year has been particularly noteworthy, with our faculty making substantial and impactful strides in both the academic world and broader society, reflecting our commitment to excellence and relevance in an ever-changing world.

In the Fine and Performing Arts, our faculty have made outstanding contributions that blend visual creativity with auditory expression. Their groundbreaking work in exhibitions and historical analysis of visual culture intersects seamlessly with the dynamic performances in music and theater, showcasing the power of artistic synergy. These endeavors highlight the importance of integrating various forms of art, offering a comprehensive view of the role creativity plays in enriching our understanding of human experience and cultural development.

In the sciences, our Biology, Chemistry, Biochemistry, and Mathematics faculty, have made significant strides in scientific knowledge. Their innovative work in areas like environmental biology, genetic research, and molecular science demonstrates a commitment to understanding and solving complex natural phenomena. These efforts bridge the gap between the living world and chemical processes, contributing to advancements in areas such as healthcare, environmental conservation, and sustainable technology. This collaborative approach in scientific inquiry highlights the integration of disciplines in uncovering the mysteries of life and matter. Mathematics, often regarded as the queen of all sciences, underpins all of science, providing the foundational language and analytical tools that drive discovery in these fields. Our faculty's work from advancing the understanding of numerical methods to exploring the vast reaches of abstract algebra, has far-reaching implications in various fields, including engineering, computer science, and data analysis.

In the intertwined spheres of Communication and Literature & Languages, our faculty have explored the power of language and media in shaping human interaction and understanding. Their research delves into the complexities of digital communication, media dynamics, and the rich diversity of literary works across cultures and times. This amalgamation highlights the significant role of language and communication in reflecting and influencing societal trends, cultural narratives, and personal identities. The synergy in these fields underscores the importance of effective communication and the profound impact of literary expression in our increasingly connected world.

In the closely linked areas of History and Political Science, our faculty have been diligently exploring the intricate tapestry of past events and contemporary governance. Their work provides insightful analysis of historical occurrences alongside a deep understanding of modern political dynamics. This merging of perspectives offers a comprehensive view of how historical contexts shape current political structures and policies, and vice versa. The collaborative efforts in these disciplines enhance our understanding of the forces that have shaped and continue to influence societies and governments globally.

In the diverse field of Social Sciences, encompassing Anthropology, Criminal Justice, Social Work, and Economics, our faculty have been at the forefront of examining the intricacies of human society and behavior. Anthropology has shed light on cultural and societal development, exploring the rich tapestry of human history and diversity. In Criminal Justice, our experts have delved into the nuances of law enforcement, legal systems, and societal responses to crime, contributing to a more just and equitable society. The field of Social Work has been instrumental in addressing social welfare and human rights, advocating for vulnerable populations, and fostering community development. Meanwhile, Economics has provided critical insights into market dynamics, financial systems, and resource distribution, playing a pivotal role in understanding, and shaping economic policies and practices. Together, these disciplines provide a comprehensive view of societal structures and dynamics, highlighting the interplay between individual behavior, societal norms, and institutional frameworks.

The list of our faculty scholarly contributions is substantial. These examples show that they contribute across important areas of knowledge and creativity. The College of Arts and Sciences is at the crossroads of society, culture, and higher education. The faculty in the College of Arts and Sciences are extraordinary scholars, teachers, and mentors. Their student focus is evident in everything they do, including scholarly and creative work. The ability of our students to participate in research and then present or publish the results alongside their faculty mentor is important.

Neil Gray, Ph.D.  
Dean, College of Arts & Sciences

## Art and Art History

### CREATIVE PRODUCTIONS

Wright, M. (2022). CAMEO Emerging Artist Exhibition. In Meadows Gallery, University of Texas at Tyler. CAMEO (Ceramic and Museum Education Organization). Tyler, Texas.

Wright, M. (2023, February 3-24). small works - Big Ideas. Juried Exhibition, Juror: Richard Notkin \*Best in Show Award. In The Clay Studio of Missoula. Missoula, Montana.

Wright, M. (2023, May 26). Brick by Brick. Three-person Exhibition, Organized by Paolo Porelli. In c.r.e.t.a. Rome. Roma, Italy.

### JOURNAL PUBLICATIONS

Wright, M. (2023). Artwork by Merrie Wright featured in the "Exposure" section. *Ceramics Monthly*, 71, 13.

### OTHER

Wright, M. (2023). Artist-in-Residence, 5 weeks. c.r.e.t.a. Rome. Roma, Italy.

### PRESENTATIONS

Lisot-Nelson, E.A. (2022, September). "The Jewish bride and oriental concubine: Raphael's Donna Velata and La Fornarina," Southeastern Renaissance Conference. Winston-Salem State University. North Carolina.

Lisot-Nelson, E.A. (2022, October) "Servants, spinners and slaves: Social status in Las Hilanderas (1655-60) by Velázquez." SECAC, Baltimore.

Lisot-Nelson, E.A. (2022, Dec) "From Margins to the middle: Pontormo's visitation paintings depicting gendered support during pregnancy and birth," Renaissance Society of America Annual Meeting, virtual.



## Biology

### JOURNAL PUBLICATIONS

Barrett, B.T., Kubik, T.D., Golightly, P.R. Kellner, K., Kardish, M., & Mueller, U. (2022, Dec). Ant genotype, but not genotype of cultivated fungi, predicts queen acceptance in the asexual fungus-farming ant *Mycocepurus smithii* (Hymenoptera: Formicidae). *Behavioral Ecology and Sociobiology*, 77(10). <https://doi.org/10.1007/s00265-022-03276-5>

Bringhurst, B., Mattea, A., Greenwold, M. J., Kellner, K., & Seal, J. N. (2022). Environments and hosts structure the bacterial microbiomes of fungus-gardening ants and their symbiotic fungus gardens. *Microbial Ecology*, 86:1374-1392. <https://doi.org/10.1007/s00248-022-02138-x>

Florova, G., De Vera, C. J., Emerine, R. L., Girard, R. A., Azghani, A. O., Sarva, K., Jacob, J., Morris, D. E., Chamiso, M., Idell, S., & Komissarov, A. A. (2023). Targeting the PAI-1 Mechanism with a Small Peptide Increases the Efficacy of Alteplase in a Rabbit Model of Chronic Empyema. *Pharmaceutics*, 15(5), 1498. <https://doi.org/10.3390/pharmaceutics15051498>

## Biology (continued)

Ford, D.F., Palnts, E.D., Ford, N. (2022). Densities, apparent survival, and local population size of Louisiana Pigtoe (*Pleurobema riddellii*) in the Neches River, Texas. *Freshwater Mollusk Biology and Conservation*, 25(2): 74-81. <https://doi.org/10.31931/fmbc-d-21-00003>

Guo, L., Luo, D., Yu, R., Zeng, C., Huang, N., Wang, H., & Wu, Y. (2022). Habitat decline of the largest known Indo-Pacific humpback dolphin (*Sousa chinensis*) population in poorly protected areas associated with the hypoxic zone. *Frontiers in Marine Science*, 9, 1048959. <https://doi.org/10.3389/fmars.2022.1048959>

Lei, P., Yu, R., Kong, Y., Bertilsson, S., Tsui, M., Jiang, T., Zhao, J. Liu, Y., Jorg, R., & Zhong, H. (2023). Properly interpret metabolic inhibition results to identify primary mercury methylating microbes. *Critical Reviews in Environmental Science and Technology*, 53(19): 1757-1773. <https://doi.org/10.1080/10643389.2023.2183072>

Li, C., Gao, P., Yu, R., Zhong, H., Wu, M., Lam, S. S., & Sonne, C. (2023). Vinyl chloride accident unleashes a toxic legacy. *Environmental Science and Ecotechnology*, 14, 100259-100259. <https://doi.org/10.1016/j.ese.2023.100259>

Liu, F., Xie, Q., Yu, R., Xie, Z., Wu, J., Zhang, X., & Wu, Y. (2023). Fatty acids as bioindicators of organohalogen exposure in marine fish from a highly polluted estuary: First insight into small-scale regional differences. *Journal of Hazardous Materials*, 452, 131337. <https://doi.org/10.1016/j.jhazmat.2023.131337>

Patterson, D., Draper, D., Anazia, K., Hjorth, C., Bird, J., Fancher, S., & Azghani, A. (2022). Encapsulation of *Pseudomonas aeruginosa* elastase inside the P22 virus-like particle for controlling enzyme-substrate interactions. *Biotechnology Journal*, 17, e2200015. <https://doi.org/10.1002/biot.202200015>

Shartau, R., Harter, T., Baker, D., Aboagye, D., Allen, P., Val, A., Crossley, D., Kohl, Z., Hedrick, M., Damsgaard, C., & Brauner, C. (2022). Acute CO2 tolerance in fishes is associated with air breathing but not the Root effect, red cell bNHE, or habitat. *Comp Biochem Physiol A Mol Integr Physiol* 274: 111304. <https://doi.org/10.1016/j.cbpa.2022.111304>

Shartau, R. B., Snyman, H. N., Turcotte, L., McCarron, P., Bradshaw, J. C., & Johnson, S. C. (2022). Acute microcystin exposure induces reversible histopathological changes in Chinook Salmon (*Oncorhynchus tshawytscha*) and Atlantic Salmon (*Salmo salar*). *Journal of Fish Diseases*, 45(5): 729-742. <https://doi.org/10.1111/jfd.13599>

Shartau, R., Shu, J., & Baker, D. W. (2023). The role of salinity in recovery of white sturgeon (*Acipenser transmontanus*) from stimulated angling stress. *Conservation Physiology*, 11(1):1-13. <https://doi.org/10.1093/conphys/coad009>

Tarter, A.A., Ford, D.F., Symonds, D.E. Ford, N., & Schwalb, A.N. (2022). Impact of extreme climatic events on unionid mussels in a subtropical river. *Hydrobiologia* 850: 1427-1442. <https://doi.org/10.1007/s10750-022-04819-7>

Zhang, X., Yu, R., Xie, Y., Yu, R., & Wu, Y. (2022). Organotins Remain a Serious Threat to the Indo-Pacific Humpback Dolphins in the Pearl River Estuary. *Environmental Science & Technology*, 56(18): 13046-13057. <https://doi.org/10.1021/acs.est.2c02780>

Woods, M. D., Cali, M., Ceesay, B., Fancher, S., Ibrasheva, G., Kandeel, S., Nassar, M., Azghani, A., Bill, B., & Patterson, D. P. (2023). Engineering the HK97 virus-like particle as a nanoplatfor for biotechnology applications. *Journal of materials chemistry. B*, 11(26), 6060-6074. <https://doi.org/10.1039/d3tb00318c>

### POSTER PRESENTATIONS

Amanda, O., Coleman, J. L., & Greenwold, M. J. (2023, March). Artificial Cavity Nesting Behavior on an East Texas University Campus. In Texas Academy of Science (TAS) 2023.

Anderson, E., Coleman, J. L., & Greenwold, M. J. (2023, August). Creating an Avian IBI using Constructed Wetlands in the Red River Basin. In 70th Annual Meeting Southwestern Association of Naturalists (SWAN). SWAN.

Bermudez, M., Hamouda, A. K., & Bill, B. R. (2023, February). Expression of alpha 4 and beta 2 nicotinic subunits in zebrafish. In Texas Academy of Science Meeting 2023. Texas Academy of Sciences.

Bozarth, S., & Greenwold, M. J. (2023, March). Size matters: freshwater mussel gill morphology and food resource acquisition. In Texas Academy of Science (TAS) 2023.

Burgett, S., Schubert, N., Dickson, J., Smith, S.-L., Kellner, K., & Banta, J. A. (2023, Spring). High-resolution ecological niche modeling of three Texas crayfish species using hydrology. In Texas Chapter of the American Fisheries Society Annual Meeting. Texas Chapter of the American Fisheries Society.

## Biology (continued)

Conneen, C., Burgett, S., Schubert, N., Dickson, J., & Banta, J. A. (2023, Summer). Predicting Habitat Suitability of Crayfish Using a Multiple Logistic Regression Accounting for Spatial Autocorrelation. In University of Texas System Louis Stokes Alliance for Minority Participation Student Research Conference and General Meeting. University of Texas System Louis Stokes Alliance for Minority Participation.

Hart, L., Wright, M., Coleman, J. L., Troy, J. R., Glavey, J. S., & Lizarraga, A. (2023, March). Correlation between Snake Fungal Disease and Predation by Raptors and other Birds. In Texas Academy of Science. San Angelo University.

Hunt, J., Williams, L. R., & Bill, B. R. (2023, Spring). Population ecology of East Texas salamanders across a heterogenous landscape in Smith County, Texas. In East Texas Research Conference.

Ledesma, K., Romero, A., Hamouda, A. K., & Bill, B. R. (2023, February). Larval expression of dopaminergic neurons markers for a Parkinson's disease-like state in Zebrafish. In Texas Academy of Sciences. Texas Academy of Sciences.

Smith, S.-L., Banta, J. A., Schubert, N., & Kellner, K. (2023, Spring). Phylogenetic analysis of four closely related species of crayfish in central Texas. In Texas Academy of Sciences Annual Meeting. Texas Academy of Science.

Smith, S.-L., Banta, J. A., Schubert, N., & Kellner, K. (2023, Spring). Phylogenetic analysis of four closely related species of crayfish in central Texas. In Texas Chapter of the American Fisheries Society Annual Meeting. Texas Chapter of the American Fisheries Society.

Smith, S.-L., Banta, J. A., & Kellner, K. (2022, September). Establishment of an eDNA method to survey the distribution of endangered crayfish species. In 114th Annual Meeting of the German Zoological Society (DZG).

Van Der Kroon, M., Coleman, J. L., Williams, L., & Lizarraga, A. (2023, July). Prevalence and Severity of Snake Fungal Disease in Wild Snake Populations at Caldwell Zoo. In Louis Stokes Alliance for Minority Participation.

### PRESENTATIONS

Boshers, E., & Seal, J. N. (2022, November). Phyllosymbiosis in Fungus-gardening Ants. In Annual Meeting of the Entomological Society of America.

Hunt, J., Williams, L. R., & Bill, B. R. (2023, February). Population ecology of East Texas salamanders across a heterogenous landscape in Smith County, Texas. In Texas Academy of Sciences Conference. Texas Academy of Sciences.

Kellner, K., & Kwapich, C. (2022, September). Do Harvester ants use biological control to keep their seeds clean?. In 114th Annual Meeting of the German Zoological Society (DZG).

Kellner, K., & Kwapich, C. (2022, November). Bacterial and fungal microbiomes of Pogonomyrmex ants and their seed deposits. In Entomological Society of America Annual Meeting. Entomological Society of America.

Lancaster, R., Banta, J. A., Greenwold, M. J., Dickson, J., & Williams, L. R. (2023, Spring). Using capture-recapture to assess the survivorship of relocated mussels in the Lower Sulphur River. In Texas Chapter of the American Fisheries Society Annual Meeting. Texas Chapter of the American Fisheries Society.

Lancaster, R., Banta, J. A., Greenwold, M. J., Dickson, J., & Williams, L. R. (2023, April). Using capture-recapture to assess the survivorship of relocated mussels in the Lower Sulphur River. In 13th Biennial Freshwater Mollusk Conservation Society Symposium. Freshwater Mollusk Conservation Society.

Laszlo, A., Placyk, J. S., Jr., Williams, M., Williams, L. R., & Banta, J. A. (2023, Spring). A novel multivariate ecological approach to modeling freshwater mussel habitats verified by ground-truthing. In Texas Chapter of the American Fisheries Society Annual Meeting. Texas Chapter of the American Fisheries Society.

Pawlik, C., Seal, J. N., & Beaver, J. W. (2022, November). GC-MS Analysis of Organic Molecules on Fungus-Gardening Ants. In Annual Meeting of the Entomological Society of America.

Seal, J. N. (2022, September). A reevaluation of the diffuse coevolution model in *Trachymyrmex* ants. In Annual Meeting of the German Zoological Society.

## Biology (continued)

Seal, J. N., Kellner, K., & Tschinkl, W. (2022, November). Analysis of bacterial and fungal microbiomes in a newly discovered ant-fungal symbiosis. In Entomological Society of America Annual Meeting.

Shartau, R., & Baker, D. (2023, May). The role of water pH on acid base compensation during hypercapnia in white sturgeon (*Acipenser transmontanus*). In Canadian Society of Zoology Annual Meeting. Canadian Society of Zoology.

### GRANTS

Romero, A., Bill, B. Reactive oxygen species' role in inducing a Parkinson's disease-like state of 6-hydroxydopamine exposed Zebrafish larvae, Texas Academy of Science (March 1, 2023), USD

Kellner, K. Population genetics of fungal symbionts of two fungus-gardening ant species found throughout east and central Texas, Braun & Gresham (December 1, 2022), USD \$10,000.

Lizarraga, A. Ecolab Lizarraga 2023, Braun & Gresham (December 1, 2022), USD \$10,000.

Seal, J. Diversity of Fungal Symbionts of Trachymyrmex ants, Braun & Gresham (December 1, 2022), USD \$1,000.

Shartau, R., (PI), Tucker, T., (Co-PI). Investigating the cellular mechanism of intracellular pH regulation during exposure to high CO<sub>2</sub>, University of Texas at Tyler (September 1, 2022), USD \$39,910.

Shartau, R. Impact of gas supersaturation on the development of gas bubble trauma in paedomorphic *Eurycea* salamanders, City of Austin (March 1, 2023), USD \$31,654.

Williams, L. Development of a nationally scalable monitoring and assessment program to improve the ACEP-WRE program, US Department of Agriculture (October 1, 2022), USD \$445,412.

Williams, L. Surveys for Ephemeroptera, Plecoptera, and Trichoptera Species of Greatest Conservation Need (SGCN), Texas Parks & Wildlife Department (November 14, 2022) USD \$91,001.

## Chemistry and Biochemistry

### JOURNAL PUBLICATIONS

Castaneda, M., Rodriguez, L., Oh, J., Cagle-White, B., Suh, H., Abdel Aziz, M. H., & Lee, J. (2023). A FOXC2 inhibitor, MC-1-F2, as a therapeutic candidate for targeting EMT in castration-resistant prostate cancer. *Bioorganic & medicinal chemistry letters*, 91, 129369.

<https://doi.org/10.1016/j.bmcl.2023.129369>

Ibrahim, M. T., Lee, J., & Tao, P. (2023). Homology modeling of Forkhead box protein C2: identification of potential inhibitors using ligand and structure-based virtual screening. *Molecular diversity*, 27(4), 1661-1674.

<https://doi.org/10.1007/s11030-022-10519-0>

Patterson, D. P., Hjorth, C., Hernandez Irias, A., Hewagama, N., & Bird, J. (2022). Delayed in vivo encapsulation of enzymes improves the catalytic activity of virus-like particle nanoreactors. *ACS Synthetic Biology*, 11(9), 2956-2968.

<https://doi.org/10.1021/acssynbio.1c00636>

Woods, M. D., Cali, M., Ceesay, B., Fancher, S., Ibrasheva, G., Kandeel, S., Nassar, M., Azghani, A. O., Bill, B. R., & Patterson, D. P. (2023). Engineering the HK97 virus-like particle as a nanoplatfor for biotechnology applications. *Journal of Materials Chemistry B*, 11, 6060-6074. <https://doi.org/10.1039/D3TB00318C>



## Chemistry and Biochemistry (continued)

### POSTER PRESENTATIONS

Ali, L., Patterson, D., & Butler, S. C. (2023, March). Synthesis and the Controlled Self-Assembly of Coiled-Coil Oligopeptides. In 263rd National Meeting of the American Chemical Society.

Balbino, A., Gilliland, C., Romero, W., Scoggins, A., Gray, H. N. N., & Butler, S. C. (2023, March). Synthesis of a Polymer End-Capping Agent: Continued Development of an Undergraduate Laboratory Experiment. In 263rd National Meeting of the American Chemical Society.

Crowe, J., Crowe, C., & Lee, J. (2023, March). Evaluation of synthetic hydrophobic moieties as degrons in PROTAC-mediated degradation of the androgen receptor. In Spring 2023 ACS National Meeting.

Ibrasheva, G., Zhu, R., Lee, J., & Patterson, D. (2023, March). Investigation of HK97 virus-like particles toward applications and drug delivery. In Spring 2023 ACS National Meeting.

Glaesemann, S. E., Smith, N. M., & Butler, S. C. (2023, March). Synthetic Studies of Dragonamide E and its Potential Treatment of Leishmaniasis. In 263rd National Meeting of the American Chemical Society.

McClain, E., Zheng, H., & Smees, J. J. (2023, March 27). Nickel dithiolate complex as a potential model for Ni-containing superoxide dismutase. In American Chemical Society Spring 2023 National Meeting. American Chemical Society.

McSwain, D., Smees, J. J., & Boyd, L. E. (2023, March). American Chemical Society Student Chapter at UT Tyler. In American Chemical Society Spring 2023 National Meeting. American Chemical Society.

West, J. K., Johnson, L. A., & Butler, S. C. (2023, March). Designing a Reagent for Multiple, Consecutive Titrations in One Vessel. In Great Plains Honors Council Conference.

Ven, S., Llovera, I., & Lee, J. (2023, March). Identification of the minimal pharmacophore of TNBC-targeting peptoid LC129-8. In Spring 2023 ACS National Meeting.

### PRESENTATIONS

Lee, J. (2022, August). Peptoid-conjugated Nanorods for Targeted Hyperthermia of Cancer Stem Cells. In 11th Peptoid Summit.

Patterson, D. P. (2023, February). Developing Virus-Like Particles as Platforms for Nanomaterial Construction. In LeTourneau University Science Seminars. LeTourneau University.

### GRANTS

Mason, R. JAMP 2023, University of Texas System (September 1, 2022) USD \$12,897.

Shtoyko, T. Welch Equipment Grant 2023, Welch Foundation (June 1, 2023) USD \$75,000.

Shtoyko, T. Welch Grant 2023, Welch Foundation (June 1, 2023) USD \$150,000.



# Communication

## CHAPTERS

Cali, D. (2022). A Sacramental View of Life in the Academy: Integration of Faith and Field. In *Professing Christ: Christian Tradition and Faith-Learning Integration in Public Universities* (pp. 31-44). Integratio Press.

Cali, D. (2022). Religious Communication in the Age of COVID-19. In *Public Communication in the Time of COVID-19*. (pp. 189-212). Lexington Books.

## JOURNAL PUBLICATIONS

Church, S. H., Halverson, A., & Yergensen, B. (2022). Music technologies and AirPods: considering theodor adorno as media ecologist, 21(2-3), 251-269. [https://doi.org/10.1386/eme\\_00132\\_1](https://doi.org/10.1386/eme_00132_1)

Yergensen, B. (2023). Competition on the origins of life and the scientific oratory tradition: Hypermasculine evolution and instinctual faith in Prometheus. *New Explorations: Studies in Culture & Communication*, 6, Article 1. <https://jps.library.utoronto.ca/index.php/nexj/article/view/40620>

Yergensen, B. (2022). From sexuality to history: Dracula's means of control in Elizabeth Kostova's the Historian. *Studies in Popular Culture*, 44(1), 87-101. <https://www.jstor.org/stable/27204057>

Yergensen, B. (2023). Ideological window dressing: Advertising Superman cinema for religious audiences in Post 9/11 America. *Utah Journal of Communication*, 1(1), 18-27. <https://doi.org/10.5281/zenodo.7796439>

Yergensen, B. (2023). Resistive reviews and early cancel culture: Delegitimation and The Chronicles of Narnia. *Atlantic Journal of Communication*, 32. <https://doi.org/10.1080/15456870.2023.2226786>

Yergensen, B. (2023). The Aesthetic Pragmatism of M. Night Shyamalan: Rhetorical Interludes as Cinematic Structures. *Americana: The Journal of American Popular Culture, 1900-Present*, 22, Article 1. [https://americanpopularculture.com/journal/articles/spring\\_2023/yergensen.htm](https://americanpopularculture.com/journal/articles/spring_2023/yergensen.htm)

Yergensen, B. (2023). The devil as doppelganger: Instinctual faith and the exhausted rant of evil in Last Days in the Desert. *Journal of Religion, Film, and Media*, 9, 157-171. [https://www.jrfm.eu/index.php/ojs\\_jrfm/issue/view/17/19](https://www.jrfm.eu/index.php/ojs_jrfm/issue/view/17/19)

Yergensen, B. (2023h). The diversified senex of science and the digital turn: Star Wars, The Matrix, and the wisdom of Neil deGrasse Tyson. *The Northwest Journal of Communication*, 50, 137-164.

Yergensen, B., & Church, S. H. (2023). The rhetorical interlude in Alfonso Cuarón's Gravity: Suggesting a model for examining rhetorical discourse in film. *Dialogue: The Interdisciplinary Journal of Popular Culture and Pedagogy*, 10(1), 6-20. <http://journaldialogue.org/issues/v10-issue-1/the-rhetorical-interlude-in-alfonso-cuarons-gravity-suggesting-a-model-for-examining-rhetorical-discourse-in-film/>

Yergensen, B. (2023). Sovereignty, Brexit, and Dunkirk: Winston Churchill's "Fight Them on the Beaches" Speech as Nationalist Memory. *Film & History: An Interdisciplinary Journal* 53(1), 31-44. <https://doi.org/10.1353/flm.2023.a903046>

## PRESENTATIONS

Cali, D. (2022). Lost and Found: Reclaiming Presence in a Digital Age. In Southern States Communication Association convention, Greenville, SC.

Yergensen, B. (2023, April). Sovereignty, Brexit, and Dunkirk: Winston Churchill's "Fight Them on the Beaches" speech as public memory. In Popular Culture Association. PCA Communication & Digital Culture Area.

# History

## CHAPTERS

Mwanzia Koster, M. (2022). Was Africa More Peaceful and Prosperous Prior to European Contact? In William G. Moseley & Kefa M. Otiso, *Debating African Issues: Conversations Under the Palaver Tree*. London, Routledge. [10.4324/9780429259784-3](https://doi.org/10.4324/9780429259784-3).

## JOURNAL PUBLICATIONS

Stith, M. M. (2023). Guerrilla and irregular warfare during the American Civil War. *Oxford Research Encyclopedia of American History*, Oxford University Press. <https://doi.org/10.1093/acrefore/9780199329175.013.926>

## PRESENTATIONS

Link, M. (2023, April). Gender, citizenship, and Irish medical women after the Great War. In *Rethinking War*. University of Pittsburgh, virtual.

Snider, C. (2023, March). Latin American Politics Today. In *Great Decisions Speaker Series - League of Women Voters of Tyler*. League of Women's Voters.

Snider, C. (2023, March). University Truth Commissions and Brazil's Military Past in the Present. In *Southeastern Council on Latin American Studies' Annual International Conference*.

# History (continued)

Stith, M. M. (2022, September). The nature of Camp Ford, Texas: an environmental history of the largest confederate prison camp in the Trans-Mississippi. In *Northern Great Plains History Conference*, Sioux Falls, SD.

Stith, M. M. (2022, Autumn). A Fourth Theater of War: The Built Environment and a Confederate Community in Texas. In *Agricultural History Society Conference*, Agricultural History Society, Stavanger, Norway.

Tabri, E. (2023, February). Revolution in Hellenistic Sparta: the Reign of the Populist King Nabis, 207-192 BCE. In *Texas World History Association*. Texas A & M University - Commerce.

## REVIEWS

Snider, C. (2022). Moral Majorities across the Americas: Brazil, the United States, and the Creation of the Religious Right, by Benjamin A. Cowan. *North American Congress on Latin America*. <https://nacla.org/moral-majorities-across-americas-colin-snider-review>

Snider, C. (2023). Review of *American Mirror: The United States and Brazil in the Age of Emancipation*, by Roberto Saba. *Choice*, vol. 60, no. 8.

# Literature and Languages

## BOOKS

Bock, G. L., & Austin, M. W. (Eds.). (2023). *QAnon, Chaos, and the Cross: Christianity and Conspiracy Theories*. Eerdmans.

Strong, D. (2022). *The Bond of Empathy in Medieval and Early Modern Literature* (p. 200). Medieval Institute Publications.

Wu, H., & Graban, T. (Eds.). (2023). *Global Rhetorical Traditions* (p. 600). Parlor Press.

Wu, H., & Kelly, M. (2023). *Reading and Writing about the Disciplines: A Guided Process for Academic Research* (p. 450). Fountainhead/Top Hat. <https://tophat.com/catalog/arts-&-humanities/-/full-course/reading-and-writing-about-the-disciplines-a-guided-process-for-academic-research-2e/5891/>

## CHAPTERS

Bock, G. L. (2023). Getting Angry. In *QAnon, Chaos, and the Cross: Christianity and Conspiracy Theories*. Eerdmans.



# Literature and Languages (continued)

## CREATIVE PRODUCTIONS

Propper, T. (2022, Autumn). My Body Was Never Made. In *Moveable Type Literary Journal*, University College of London.

Propper, T. (2022, Autumn). Now. In *P-Queue*. University at Buffalo English Department and Poetics Program, vol. 19.

Propper, T. (2022, Autumn). Testimony. In *Occulum Journal of Prose and Poetry*.

Propper, T. (2023, January). Women's Stories. In *Vagabond City Press*.

Propper, T. (2023, Spring). Nocturnes, Op. 9 No. 1. In *Ekstasis Magazine*.

## JOURNAL PUBLICATIONS

Cowart, T., Rashi, T., & Bock, G. L. (2023). Should Pharma Companies Waive Their COVID Vaccine Patents? A Legal and Ethical Appraisal. *Laws*, 12(3), 47. <https://doi.org/10.3390/laws12030047>

Jessop, A. K. (2023). Collaboration and Adaptation: Laura Riding and Robert Graves's 'Greeks and Trojans.' *The Robert Graves Review*, 1, Article 3.

Kelly, M. (2021). Playing with Perspective: Examining the Role of Ethos, Empathy and Environmental Storytelling in Video Game-Based Writing Projects. *College English*, 85(2), 133-154. <https://doi.org/10.58680/ce202232209>

Oh, J., Hess, L. M., & Henderson, J. (2022). Contested Language and the Study of Later Life. *Age, Culture, Humanities: An Interdisciplinary Journal*, 6. <https://doi.org/10.7146/ageculturehumanities.v6i.133353>

Strong, D. (2023). Fledgling Parents. *Life & Land magazine*, Spring 2023, 84-87.

Woll, N., Paquet, P.-L., & Wouters, I. (2022). Language as a vehicle or as a resource? Exploring the nature of metalinguistic reflection in plurilingual consciousness-raising tasks. *Journal of Multilingual and Multicultural Development*. <https://doi.org/10.1080/01434632.2022.2134398>

## OTHER

Jessop, A. K., & Sánchez-Pardo, E. (2023). Co-organizer, with Esther Sánchez-Pardo (Universidad Complutense de Madrid), "Comparative Women's Poetries and Poetics: In Search of Transnational Interrelations in Women Poets' and Critics' Work". American Comparative Literature Association Convention.

Ross, C. E. (2022). Op-ed: A Map and a Compass: hacking their hack so we all win. *Inside Higher Education*.

## POSTER PRESENTATIONS

Wu, H., Kelly, M., & Propper, T. (2023, January). Innovating the Graduate Curriculum to Serve Communities. In *Modern Language Association (MLA)*. Modern Language Association (MLA).

## PRESENTATIONS

Bock, G. L. (2022, November). The Analogy between Divine Forgiveness and Legal Pardon: A Response to William Lane Craig. In *National Meeting of the Evangelical Philosophical Society*.

Bock, G. L., & Lewis, C. D. (2023, February). Bonhoeffer's Forgiveness. In *Central Division Meeting of the American Philosophical Association*.

Bock, G. L. (2023, February). Response to "Is Eating Cultured Human Flesh Cannibalism?" In *Central Division Meeting of the American Philosophical Association*.

Bock, G. L. (2023, March). Bonhoeffer's Ethics of Forgiveness. In *Evangelical Philosophical Society Southwest*.

Bock, G. L., & Cowart, T. W. (2023, Spring). Pro-Life Enough? A Review of Child and Family Health Services in Texas. *Association of Practical and Professional Ethics International Conference*.

Jessop, A. K. (2023, January). Modernism for Girls: Laura Riding's Schooling for Street Smarts." In *Streetwise: Children's Literature and Culture in the Modern City*, Modern Language Association Annual Conference.

Jessop, A. K., & Joseph, M. (Eds.). (2023, January). Regenerating Graves: Media Adaptations of the Work and Thought of Robert Graves Special Session panel. In *2023 Modern Language Association (MLA) Convention*, Modern Language Association.

Jessop, A. K. (2023, March). "Reinventing the Enemy's Language: Joy Harjo's Indigenous Poetics". *American Comparative Literature Association Convention*. Kelly, M. (2023, Spring). Weaving Together Personal Stories and History in the English Classroom. *College English Association*.

Kelly, M. (2023, Spring). Weaving Together Personal Stories and History in the English Classroom. *College English Association*.

Menkina Snider, N. V. (2023, March 31). Third Space as a Reflection of Paradoxical Nature of Multiculturalism in Immigrant Literature Course. *CEA (College English Association) Annual National Conference*.

# Literature and Languages (continued)

Paquet, P.-L., & Woll, N. (2022, September). Developing crosslinguistic awareness of adult L3 learners of French through plurilingual consciousness-raising tasks. In *12th International Conference on Third Language Acquisition and Multilingualism*, University of Zagreb.

Rowntree, M. (2023, March). Manifesting Joy through a Posthuman Feminist Praxis. *Northeast Modern Language Association*.

Sidey, M., Standridge, E., & Lombard, M. (2023, February). Doing Hope from Multiple Perspectives: Exploring Student Agency in Writing Center Tutorials, Academic Writing, and Narrative Writing. In *CCCC, NCTE*.

Standridge, E. (2023, Spring). Asking and Receiving: Exploring What is Asked for and What is Given in Writing Tutorials. *Conference on College Composition and Communication*.

Strong, D. (2022, October). The Epistemic Function of Experience in King Lear. *Sixteenth Century Society and Conference*.

Wu, H. (2022, October 20). Rhetorical Genre as a Methodology for Comparative Rhetoric. In *Purdue University Hutton Series Lecture on Rhetoric*. Distinguished Lecture Invited by the English Dept. at Purdue University.

Wu, H. (2023, February). Teaching Western and Non-Western Rhetorical Traditions in Tendum. *Conference for College Composition and Communication, National Council for Teachers of English*.

Wu, H., & Graban, T. (2022, November). Stories Behind Global Rhetorical Traditions. In *English PhD Course at Clemson University, Clemson University*.

## REVIEWS

Jessop, A. K. (2022). Review of DeMaagd, Allyson C. *Dissensuous Modernism: Women Writers, the Senses, and Technology*. *H-Sci-Med-Tech, H-Net Reviews*. <http://www.h-net.org/reviews/showrev.php?id=57776>

Strong, D. (2022). Review of *Married Life in the Middle Ages*. *Sixteenth-Century Studies Journal*, 52(3), 782-784. <https://doi.org/10.1086/SCJ5203134>

Strong, D. (Ed.). (2022). Review of *The Spiritual Dream in Late Medieval European Literature*. *Humanities*.

## GRANTS

Bock, G.L., Open Educational Resources Grant Program, Texas Higher Education Coordinating Board (May 24, 2023), USD \$5,000.



# Mathematics

## JOURNAL PUBLICATIONS

Archer, K., & Graves, C. (2023). A new statistic on Dyck paths for counting 3-dimensional Catalan words. *Discrete Mathematics*, 346 (3), 1-16. <https://doi.org/10.1016/j.disc.2022.113247>

Bergelson, V., Downarowicz, T., & Vandehey, J. A. (2022). Deterministic functions on amenable semigroups and a generalization of the Kamae-Weiss theorem on normality preservation. *Journal d'Analyse Mathématique*, 148, 213-286. <https://doi.org/10.1007/s11854-022-0226-3>

Dawsey, M. L., Saunders, S., Harrell, E., & Cochran, E. (2022). Bijections, generalizations, and other properties of sequentially congruent partitions. *Ramanujan Journal*, 63, 527-551. <https://doi.org/10.1007/s11139-023-00728-y>

Dawsey, M. L., Schneider, R., & Just, M. (2022). A "supernormal" partition statistic. *Journal of Number Theory*, 241, 120-141. <https://doi.org/10.1016/j.jnt.2022.03.003>

Graves, C. (2022). More reliable graphs are not always stronger. *Networks*, 81(4), 490-498. <https://doi.org/10.1002/net.22141>

Lukyanenko, A., & Vandehey, J. (2023). Ergodicity of Iwasawa continued fractions via markable hyperbolic geodesics. *Ergodic Theory and Dynamical Systems*, 43(5), 1666-1711. <https://doi.org/10.1017/etds.2022.18>

# Mathematics

## (continued)

### PRESENTATIONS

Anders, K. (2023, Spring). Early results on which integers can be written as quotients of sums of distinct powers of three. In Texas Number Theory and Combinatorics Seminar.

Vandehey, J. A. (2022, Autumn). Digital problems in partitions. In Texas Number Theory and Combinatorics Seminar.

Vandehey, J. A. (2022, Autumn). Normal numbers and finite automata. In Special Session on The Intersection of Number Theory and Combinatorics at Fall Central Sectional Meeting.

Vandehey, J. A. (2022, Autumn). Relating the dynamics of normal numbers for varying numeration systems. In Geometry Metrics, Measures, and Algorithms seminar.

### REVIEWS

Dawsey, M. L. (2022). Laguerre inequalities for discrete sequences. *Advances in Applied Mathematics*, 139, 1-23. <https://doi.org/10.1016/j.aam.2022.102357>

### GRANTS

Anders, K. Texas Undergraduate Mathematics Conference 2022-2024, National Science Foundation (September 1, 2022), USD \$14,985.

Gupta, R. American Mathematical Society Simons Travel Grant, AMS – Simons Travel Grant Program (July 1, 2023), USD \$6,000.

# Music

### CREATIVE PERFORMANCES

Park, S. E. (2022, October 17). Dr. Sooah Park Guest Artist Recital. In Guest Artist Recital. Texas A&M University-Corpus Christi.

Park, S. E. (2022, October 25). Dr. Sooah Park Guest Artist Recital. In The Duckwall Artist Series at Butler Arts and Events Center.

Park, S. E., & Daughtery, E. (2023, January 9). "Songs from Native Sound." In Faculty Recital at the University of Texas at Tyler.

Park, S. E. (2023, January 13). Songs from Native Sound. In Solo Recital at Carnegie Hall.

### CREATIVE PRODUCTIONS

Park, S. E. (2022, November 1). Dream Songs. In CD Baby/Spotify/Apple Music/Amazon Music/Pandora.



# Music (continued)

### PRESENTATIONS

Gullings, K. (2022, September 21). Open Music Theory Version 2: A Multi-Institutional Model for Developing Open Online Textbooks. In Open Texas 2022 Conference.

Gullings, K., Branscome, E., Richmond, J., Scott, D., Hansen, R., Wilson, S., & Johnson, V. (2022, November 21). "The Need for Proactive Development of Leadership and Management Skills," as part of the panel Mentoring New Leaders in Music Administration. In National Association of Schools of Music (NASM) Annual Meeting.

Gullings, K. (2023, March 11). Open Music Theory Version 2: A Multi-Institutional Model for Developing Open Online Textbooks. In College Music Society South Central Regional Conference.

Gullings, K. (2023, April 21). Open Music Theory Version 2: A Multi-Institutional Model for Developing Open Online Textbooks. In East Texas Research Conference.

Park, S. E. (2023, February 3). A lecture-recital was presented at NATS International Region Conference on February 17, 2023. In The National Association of Teachers of Singing International Region Conference.

# Political Science

### BOOKS

Sterken Jr., R. E. (2023). *The Kings of Buddhism: Power, Religion, and Fury in Myanmar* (p. 272). Rowman & Littlefield Publishing House.

### CHAPTERS

Wahlrab, A. (2023). Social Contact Theory. In *Handbook of the Anthropocene: Humans between Heritage and Future*, Springer Nature (pp. 1207-1210). Springer Nature. [https://doi.org/10.1007/978-3-031-25910-4\\_197](https://doi.org/10.1007/978-3-031-25910-4_197)

Wahlrab, A. (2023). The Pertinence of Transdisciplinarity for Global Studies: The Case of Globalization. In *Handbook of Transdisciplinarity: Global Perspectives* (pp. 79-94). Edward Elgar Publishing. <https://doi.org/10.4337/9781802207835.00013>

### OTHER

Wahlrab, A. (2023). Globalization. In *Dictionary of Ecological Economics*. Edward Elgar Publishing. <https://doi.org/10.4337/9781788974912.G.15>

### PRESENTATIONS

LeBlanc, J. R. (2022, November). Breaking the Mirror: Rethinking Palestinian Political Agency in Darwish's In the Presence of Absence. Association for Political Theory.

Stadelmann, M. A., & Carter, J. (2023, April). Right Populism in Europe - The Case of Italy. In National Social Science Association.

Sterken Jr., R. E. (2023, June 9-11). *The Kings of Buddhism: Power, Religion, and Fury in Myanmar*. In the 15th International Burma Studies Conference. University of Zurich, Switzerland.

Wahlrab, A. (2023, March). *Cultures of Violence and Nonviolent Responses*. In First Year Seminar: Mindfulness in a Time of Crisis. Penn State University.

Wahlrab, A. (2023, June 25-July 1). *Globalization and Nonviolence in the 21st Century*. In XX ISA World Congress of Sociology. International Sociology Association.

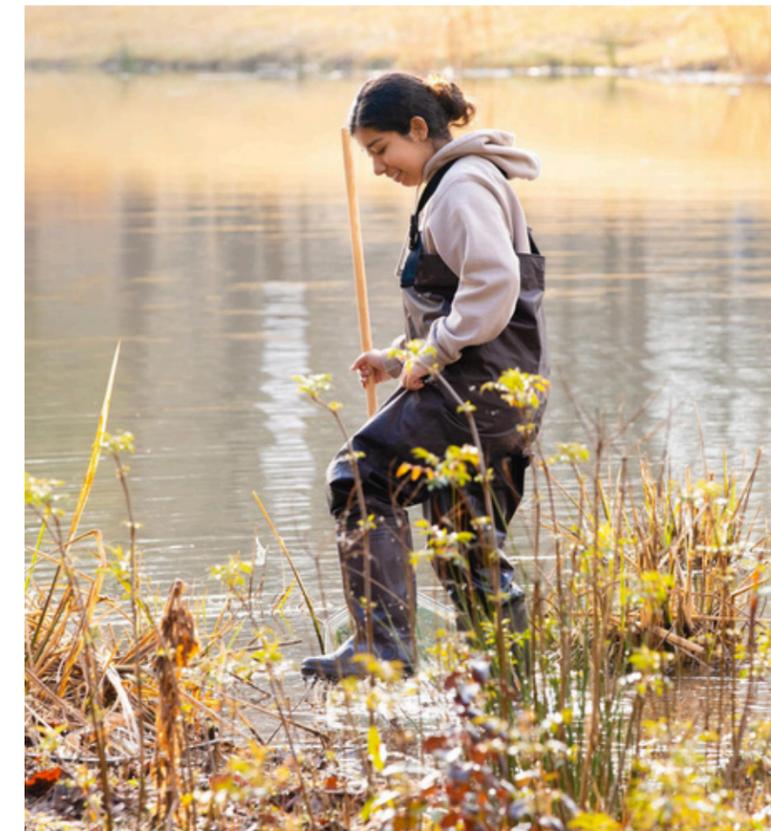
### REVIEWS

Bryant Jr., K. (2022). *Unequal America: Class Conflict, the News Media, and Ideology in an Era of Record Inequality* by Anthony R DiMaggio. *Populism*, 5(2), 237-240. <https://doi.org/10.1163/25888072-bja10036>

Sterken Jr., R. E. (2022). *The Pope at War* by David I. Kertzer. *Fulbright Chronicles* 1(3), 68-70. <https://fulbright-chronicles.com/issues/1-3/the-silence-of-a-pope/>

Wahlrab, A. (2022). *Globalization/Glocalization: Developments in Theory and Application*. Essays in Honour Of Roland Robertson. *Glocalism: Journal of Culture, Politics, and Innovation*, 1, 1-8. <https://doi.org/10.12893/gjcpi.2022.1.7>

Wahlrab, A. (2023). *Unequal America: Class Conflict, the News Media, and Ideology in an Era of Record Inequality* by Anthony R DiMaggio. *Critical Sociology*, 49(2), 372-374. <https://doi.org/10.1177/08969205221119922>



# Social Sciences

## JOURNAL PUBLICATIONS

Bailey, D. J. S., Wooldridge, J. L., Cooper, D. T., & Sample, L. L. (2023). Contextualizing the effects of Sexual Offender Registration and Notification (SORN) policies on employment and economic status of persons convicted of sexual offenses. *Journal of Crime and Justice*, 3(1), 1-18. <https://doi.org/10.47509/JCCB.2023.v03i01.01>

Fikru, M., & Gautier, L. (2023). Consumption and production of cleaner energy by prosumers. *Energy Economics*, 124, 1-12. <https://doi.org/10.1016/j.eneco.2023.106760>

Gautier, L., & Fikru, M. (2022). The welfare impact of new firm acquisitions. *Journal of Industry, Competition and Trade*, 22, 535-559. <https://doi.org/10.1007/s10842-022-00393-9>

Gautier, L., & Vatsa, P. (2023). Corruption, remittances, and public goods: A unified framework. *Bulletin of Economic Research*, 75(4), 1078-1085. <https://doi.org/10.1111/boer.12396>

Helfers, R. C., Scott, D. M., & Reynolds, P. D. (2023). Exploring the relationship between citizens' perception to defund police budgets and their knowledge of police training: Does place of residence mediate the relationship? *Journal of Criminology and Criminal Justice Studies*, 1(1), 25-41.

Reynolds, P. D., Helfers, R. C., & Smith, R. (2023). Examining UK and US police officers' perceptions of community sentiment, performance, and fear of on-duty victimization. *SN Social Sciences*, 3, 1-19. <https://doi.org/10.1007/s43545-023-00716-5>

Saygili, M. (2022). How would Medicaid expansion affect Texas hospitals? Evidence from a retrospective quasi-experimental study. *INQUIRY: The Journal of Health Care Organization, Provision, and Financing*, 59, 1-8. <https://doi.org/10.1177/00469580221121534>

Tekin, Z., & Saygili, M. (2022). The association between Medicaid expansion and diabetic ketoacidosis hospitalizations. *Cureus*, 14(10), 1-8. <https://doi.org/10.7759/cureus.30631>

Wooldridge, J. L., & Bailey, D. J. S. (2022). "I'm not unemployed, I'm unemployable": Challenges finding and sustaining work for people required to register as sex offenders. *Journal of Qualitative Criminal Justice & Criminology*, 12(2), 1-24. <https://doi.org/10.21428/88de04a1.1ec0e403>

Wooldridge, J. L., & Bailey, D. J. S. (2023). Learning to catch a killer: The advantages and challenges of planning a community-oriented murder mystery event to improve forensic science education outreach. *Journal of Forensic Science Education*, 5(1). <https://jfse-ojs-tamu.tdl.org/jfse/article/view/86>

## PRESENTATIONS

Bailey, D. J. S. (2022, August). Politics and Punishment: What's Wrong with How We Deal with Sex Offenses. In State Criminal Justice Network Conference. National Association of Criminal Defense Lawyers.

Bailey, D. J. S., Klein, J. L., Cooper, D. T., & Sample, L. L. (2022, November). Contextualizing the effects of Sexual Offender Registration and Notification (SORN) policies on employment and economic status of persons convicted of sexual offenses. In American Society of Criminology Annual Conference.

Cooper, D. T., Klein, J. L., Bailey, D. J. S., & Sample, L. L. (2022, November). Contrasting the Economic Impact of Registering as a Sex Offender on Parents and Nonparents. In American Society of Criminology Annual Conference.

Gautier, L. (2022, Autumn). Endogenous prosumers and mergers in the electricity market. In Internal Research Seminar. Department of Economic Theory and History.

Gautier, L. (2023, January). Environmental policy design for the olive oil sector. In University of Granada. Department of Economics.

Gautier, L. (2023, February). Environmental policy design for the olive oil sector. In University of Islas Baleares. Department of Applied Economics.

Helfers, R. C., Reynolds, P. D., & Scott, D. M. (2023, Spring). Association among citizen perception to divert police budgetary dollars, awareness of training, and location of residence. In Annual Conference for the Academy of Criminal Justice Sciences.

Helfers, R. C., Reynolds, P. D., & Smith, R. (2022, Autumn). A Comparison of US and UK Police Officers as it Relates to Their Perceptions of Community Sentiment, Job Tasks, and Fear of On-Duty Victimization." In Annual Meeting of the Southwestern Association of Criminal Justice.

Klein, J. L., Bailey, D. J. S., & Taulli, S. (2022, November). Registrants for hire: Examining the resumes of individuals convicted of sexual offenses. In American Society of Criminology Annual Conference.

# Social Sciences (continued)

Magidson, M., Helfers, R. C., Hill, M., & Cavanaugh, M. (2022). Impact of Law Enforcement in Schools on Youth, Parents, and Teachers' Attitudes and Perceptions. Southwestern Association of Criminal Justice Annual Meeting.

Saygili, M., & Tekin, Z. (2022, November). The Association between Medicaid Expansion and Diabetic Ketoacidosis Hospitalizations: Evidence from a Natural Experiment in Texas. In 92nd Annual Meeting of the Southern Economic Association.

Wooldridge, J. L., & Bailey, D. J. S. (2022, November). "I'm not unemployed, I'm unemployable": A qualitative examination of the mental health effects of unemployment on a person convicted of a sexual offense. In American Society of Criminology Annual Conference.



# College of Education & Psychology

The College of Education and Psychology applauds the research, scholarly, and creative activities of our faculty, students, and staff. These activities often represent collaborative efforts that transcend disciplinary boundaries and are responsive to the needs of the communities in which we live as well as to the needs of the communities of learners and scholars that we are a part of. Thus, our activities often innovate in response to specific needs. Faculty, staff, and students in the College are organized into 3 units, the Department of Psychology and Counseling led by Chair Dr. Amy Hayes, the School of Education led by Interim Director Dr. Staci Zolkoski, and the University Academy, a K-12 charter school system with three campuses located in Longview, Palestine, and Tyler, respectively, and led by Superintendent Dr. Jo Ann Simmons. As a college we represent three disciplines—counseling, education, and psychology. We excel in teaching and offer 4 bachelor's, 7 master's and 2 doctoral degrees along with 2 certification programs, 5 College centers, and K-12 STEM education. Our teaching is informed and enhanced by our research, scholarly, and creative activities that are the focus of this publication.

The purpose of this publication is to celebrate research, scholarly, and creative activities conducted during the past academic year. During the period being recognized, members of the College of Education and Psychology participated in numerous externally funded grant projects with funding from various national and regional foundations and organizations. During this period, we have published and presented in diverse venues consistent with the mission and vision of the College and University and specific to our disciplines and fields of study. These venues include journal articles, book chapters, books, presentations, colloquia, and conferences that were presented within national and international research societies, in community groups, in schools, in mental health settings, and more.

It is my pleasure to congratulate the CEP faculty, staff, and students on your continued accomplishments in research and scholarly endeavors.

Pradeep Dass, Ph.D.  
Dean, College of Education and Psychology



## Psychology and Counseling

### CHAPTERS

Stocks, E. L., & Lishner, D. (2022). Altruism. In Encyclopedia of Mental Health (3rd Ed). <https://doi.org/10.1016/B978-0-323-91497-0.00105-3>.

### CREATIVE PERFORMANCES

Grad, R. I., McCleave, C., & Zonio, H. (2023, July). Irresponsible Answers (Historic/Ongoing). In Religious Education Association Annual Meeting.

### CREATIVE PRODUCTIONS

Grad, R. I., Thomas, C., Zolkoski, S., & Sass, S. (2022, December). Building Trauma-Informed Schools - A Practice Brief for Anyone who Interacts with Students in Schools. In American Psychological Association Division 15 Educational Psychology.

### JOURNAL PUBLICATIONS

Adams, C., Grad, R. I., & Nice, M. (2023). An Ecological Perspective of Intergenerational Trauma: Clinical Implications. Journal of Counseling Research and Practice, 8(1), Article 4. <https://doi.org/10.56731/2688-3996.1065>.

Berkout, O. (2023). Assessing psychological inflexibility in text: An examination of the Inflexitext program. Journal of Contextual Behavioral Science, 28(2023), 10-17. <https://doi.org/10.1016/j.jcbs.2023.03.001>.

Erickson, T. M., Scarsella, G. M., McGuire, A. P., Tingey, J. L., Crouch, T. A., Stebbins, O., & Lewis, J. A. (2022). Pure in heart: Perceived virtue states uniquely predict prosocial processes, spirituality, and well-being. Psychology of Religion and Spirituality, 16(1), 81-92. <https://doi.org/10.1037/rel0000481>.

Estrada, S., & Martinez, E. (2023). Average or Outlier? Introductory statistics adjunct instructors' beliefs, practices, and experiences. The Qualitative Report, 28(6), 1769 - 1786. <http://hdl.handle.net/10950/4243>.

Grad, R. I., Thomas, C. L., & Gordy, D. (2023). Adverse childhood experiences, multidimensional perfectionism, and stress in young adults: A person-centered perspective. Journal of Mental Health Counseling, 45(2), 166-183. <https://doi.org/10.17744/mehc.45.2.05>.

Hayden, C. L., Rodenbaugh, M., Monsour, M., & McGuire, A. P. (2023). Exploring the link between social support on substance use recovery and correlates of support during the COVID-19 pandemic. The Behavior Therapist, 223-228.

Hayes, A. R., & Hickey, W. (2023). Helping underrepresented students navigate STEM: lessons for K-12 from psychology. Insight, 38(2), 34-36. <https://issuu.com/tasanet/docs/insight-summer-2023>.

# Psychology and Counseling (continued)

Jiang, S., Wallace, K., Yang, E., Roper, L., Aryal, G., Lee, D., Lodhi, R. J., Isenberg, R., Green PhD, B. A., Wishart, D., & Aitchison, K. J. (2023). Logistic regression with machine learning sheds light on the problematic sexual behavior phenotype. *Journal of Addiction Medicine*, 17(2), 174-181. <https://doi.org/10.1097/adm.0000000000001078>.

Johnson, K., Kim, H., Molina, C. E., Thompson, K., Henry, S., & Zyromski, B. (2023). School counseling prevention programming to address social determinants of mental health. *Journal of Counseling and Development*, 101(4), 402-415. <https://doi.org/10.1002/jcad.12471>.

Kirby, L. A. J., Zolkoski, S. M., O'Brien, K., Mathew, J., Kennedy, B. R., & Sass, S. M. (2023). Examining staff and faculty work-life balance and well-being using the dual continua model of mental health during COVID-19. *Journal of Happiness and Health*, 3(1), 34-48. <https://doi.org/10.47602/johah.v3i1.31>.

Lemberger-Truelove, M. E., Molina, C. E., Carbonneau, K., & Smith, M. (2023). Coregulation effects of a school counselor consultation intervention on middle school teacher-student relationships, curiosity, and teacher stress. *Professional School Counseling*, 27(1a). <https://doi.org/10.1177/2156759x231153380>.

Lindo, N. A., Li, D., Hastings, T., Ceballos, P., Werts, R., Molina, C. E., Oller, M., & Laird, A. (2022). Child and adolescent career construction: Lived experiences of an expressive arts group. *The Career Development Quarterly*, 70(4), 300-313. <https://doi.org/10.1002/cdq.12307>.

Lindo, N. A., Molina, C. E., Li, D., Line, A., Amundson, J., Opondo, H., & Werts, R. (2023). Career construction with high school girls: An expressive arts group intervention. *Journal of Child and Adolescent Counseling*, 9(3), 316-331. <https://doi.org/10.1080/23727810.2023.2225758>.

McGuire, A. P., Elmore, C., Szabo, Y. Z., Kurz, A. S., Mendoza, C., Umucu, E., & Creech, S. K. (2023). Exploring the trajectory and correlates of social isolation for veterans across a 6-month period during COVID-19. *PLoS ONE* 18(3), e0281575. <https://doi.org/10.1371/journal.pone.0281575>.

McGuire, A. P., Howard, B. A. N., Erickson, T. M., & Creech, S. K. (2023). Moral elevation online intervention for veterans experiencing distress related to PTSD and moral injury (MOVED): A pilot trial of a 4-week positive psychology web-based intervention. *JMIR Formative Research*, 7(e39894). <https://doi.org/10.2196/39894>.

Molina, C. E., Ceballos, P., Lemberger-Truelove, M. E., Carbonneau, K., Branch, M. L., & Everett, M. (2023). Phenomenological study of teachers' mindfulness and social and emotional learning experiences after a consultation intervention. *Journal of Counseling Outcome Research and Evaluation*, 15(1), 51-68. <https://doi.org/10.1080/21501378.2023.2257240>.

Staley, G., Zaidan, A., Henley, K., Childers, L. G., Daniel, R., Lauderdale, S. A., & McGuire, A. P. (2022). Commending rather than condemning: Moral elevation and stigma for male veterans with military sexual trauma. *BMC Psychology*, 10(292). <https://doi.org/10.1186/s40359-022-01002-4>.

Tsai, C.-L., Estrada, S., Flores, L. Y., & Brown, C. (2023). Motivation, College Integration, and Intentions to Persist Among First-Generation College Students: A Latent Class Approach. *Journal of Career Development*, 50(5), 1116-1136. <https://doi.org/10.1177/08948453231157757>.



# Psychology and Counseling (continued)

## POSTER PRESENTATIONS

Barena, E., Kennedy, B., Sims-Rhodes, N., & Sass, S. M. (2023, April). Valence and arousal ratings for a diverse face stimulus set. In Southwest Psychological Association Convention. Southwest Psychological Association. Frisco, TX, United States.

Breding, S., & Kirby, L. A. J. (2023, April). Dissociation and creativity. In East Texas Research Conference. University of Texas at Tyler. Tyler, TX, United States.

Combs, D. (2022, November). The Role of Self-Focused Attention in Paranoia. In Association for Behavioral and Cognitive Therapies (ABCT) 56th Annual Convention. Association for Behavioral and Cognitive Therapies (ABCT). New York City, NY, United States.

Combs, D. (2022, November). Validity of Paranoia Ratings in a Non-Clinical Sample. In Association for Behavioral and Cognitive Therapies (ABCT) 56th Annual Convention. Association for Behavioral and Cognitive Therapies (ABCT). New York City, NY, United States.

Gabelmann, J. M., Davies, R. L., Bravo, A. J., McGuire, A. P., & Kelley, M. L. (2023, August). Response to positive affect as a moderator of warzone experiences and suicidality. In American Psychological Association Convention. American Psychological Association. Washington, D.C., United States.

Hayden, C. L., Fagan, J., & McGuire, A. P. (2022, November). Goal-setting for veterans with PTSD and moral injury: A qualitative report of self-generated goals and reactions to success and failure. In Association for Behavioral and Cognitive Therapies (ABCT) 56th Annual Convention. Association for Behavioral and Cognitive Therapies (ABCT). New York City, NY, United States.

Hutchinson, A., Kellermann, A., Watts, A., Larue, D., Hayes, A. R., West, E. M., & Green PhD, B. A. (2023, March). The Opinions About Telehealth Survey (OATS). In Southwest Psychological Association Convention. Southwest Psychological Association. Frisco, TX, United States.

Kennedy, B., O'Brien, K., Mathew, J., & Sass, S. M. (2022, November). Well-being indicators, anxiety, and depression in the midst of societal crisis: An application of the dual factor model of mental health. In Association for Behavioral and Cognitive Therapies (ABCT) 56th Annual Convention. Association for Behavioral and Cognitive Therapies (ABCT). New York City, NY, United States.

Kirby, L. A. J. (2023, May). Choosing statistical methods with Qualtrics in an undergraduate psychology research methods course. In RoSE Network Conference. Research on Statistics Education (RoSE) Network.

Le, K., Sorensen, W., Sass, S. M., Cooper, C., & Kirby, L. A. J. (2023, April). Exploring social media usage and its effects on college students' mental health: A mixed methods study. In Discover USC Day. University of South Carolina. Columbia, SC, United States.

Preston, A., Vega, J. A., Wallace-Gay, T. D., Mettlen, J., Wade, M., Green, B. A., Pippin, P., & Parti, A. (2023, Spring). The influence of poverty and race in acute care management and discharge planning: An interprofessional simulation activity. In 2023 Innovations in Health Science Education Annual Conference Diversity, Collaboration, And Opportunities in Current Health Science Education. University of Texas at Austin. Austin, TX, United States.

Sims-Rhodes, N., Barena, E., Nabulsi, E., Kennedy, B., Yuen, N., Elliott, K., Morris, M., Sass, S. M., & Singh, K. (2023, April). Examining mental health conditions and barriers to care in rural Northeast Texas. In Southwest Psychological Association Convention. Southwest Psychological Association. Frisco, TX, United States.

## PRESENTATIONS

Barena, E., Criddle, J., & Berkout, O. (2023, March). Understanding unmet mental health needs: An examination in a community sample. In Southwestern Psychological Association. Frisco, TX, United States.

Hayes, A. R. (2023, March). Navigating the STEM currents: Helping underrepresented groups set sail and stay the course in STEM. In 2023 Texas STEM Conference. Texas STEM Educators. Texas State University, San Marcos, TX, United States.

Lemberger-Truelove, M. E., & Molina, C. E. (2023, March). Advocating Student-within-environment: An Evidence-based Theory for School Counseling Practitioners, and Scholars. In Evidence-Based School Counseling National Conference. Atlanta, GA, United States.

McGuire, A. P. (2022, November). Assessing cognitive response styles to positive affect during a positive psychology intervention for veterans with PTSD and moral injury: Preliminary results from a moral elevation-based pilot trial. In Association for Behavioral and Cognitive Therapies (ABCT) 56th Annual Convention. Association for Behavioral and Cognitive Therapies (ABCT) 56th Annual Convention. New York City, NY, United States.

# Psychology and Counseling (continued)

Molina, C. E., & Barber, L. A. (2022, September). Supporting students' mental health in classrooms. In *Mental Health Matters: Supporting Youth Across Schools and Communities Conference*. University of Texas at Tyler. Tyler, TX, United States.

Molina, C. E., & West, E. (2023, January). *Mental Health in Schools*. In Ed Talk. The East Texas Center for School Based Research & Instruction at the University of Texas at Tyler. Tyler, TX, United States.

Sass, S. M. (2022, September). Burnout prevention. In *Mental Health Matters Conference*. University of Texas at Tyler. Tyler, TX, United States.

Sass, S. M., & Zolkoski, S. (2022, November). Burnout and Burnout Prevention for K-12 Professionals. In *Texas Child Health Access Through Telemedicine*. TCHATT.

Steffen, A., Lauderdale, S., McGuire, A. P., & Pote, L. (2022, November). Addressing the needs of masters-level CBT clinicians across multiple disciplines: Education, professional training, and user-centered design of intervention materials. In *Association for Behavioral and Cognitive Therapies (ABCT) 56th Annual Convention*. Association for Behavioral and Cognitive Therapies (ABCT) 56th Annual Convention. New York City, NY, United States.

Stocks, E. L., & Oceja, L. (2023, Summer). Using the Evaluation Model of Normative Appraisal (EMNA) to Understand Mask-Wearing during a Global Pandemic. In *European Association of Social Psychology Annual Conference 2023*. EASP. Kraków, Poland.

Sunal, Z., & Berkout, O. (2022, October). Use of Technology in Rural Mental Healthcare. In *Southern Association for Counselor Education and Supervision Conference*. Baltimore, MD, United States.

Tsai, C.-L., Estrada, S., & Fulmore, J. (2023, May). Rasch Analysis on Reliability and Fit Statistics of a Self-Efficacy Measure with Different Rating Categories. In *American Educational Research Association*. Chicago, IL, United States.

Zolkoski, S. M., & Molina, C. E. (2022, September). *Mental Health and School Climate*. In *Mental Health Matters: Supporting Youth Across Schools and Communities Conference*. University of Texas at Tyler. Tyler, TX, United States.

## GRANTS

Barnett, M., (PI), Subramanian, N., (Co-PI). Virtual Reality-Based Assessment of Decision-Making Related to Financial Capacity in Normal Aging and Alzheimer's Disease, University of Texas at Tyler (September 1, 2022), USD \$33,000.

Estrada, S. *Concept Mapping in Introductory Psychological Statistics: A Social Network Analysis Approach*, Society for Teaching Psychology (STP) (January 1, 2023), USD \$2,400.

Grad, R. *Children's Spirituality: The Role of the Risk for PTSD, and Emotional Intelligence*, Children's Spirituality Research and Innovation (June 1, 2023), USD \$57,817.

Molina, C. *Mental Health Matters: Supporting East Texas Youth in Schools*, US Department of Education (January 1, 2023), USD \$1,937,751.

Yuen, N. *Examining the Social and Economic Costs of Undertreated Mental Health Conditions among Underserved Individuals Living in an Underserved and Primarily Rural Region of Texas*, Health Care Service Corporation (HCSC) (September 1, 2022), USD \$116,274.

Yuen, N. *Cystic Fibrosis Center Grant*, Cystic Fibrosis Foundation (CFF) (January 1, 2023), USD \$34,140.

# School of Education

## BOOKS

Stevens, R. (2023). *Homespun: Teaching Local History in Grades 6-12* (p. 368). Linus Learning Publisher.

Zolkoski, S. M., Chiu, C. G., & Lusk, M. E. (2022). *Motivated to Learn: Decreasing Challenging Student Behaviors and Increasing Academic Engagement*. Solution Tree.

## CHAPTERS

Bailey, J., & Rhone, R. (2022). Creating intentional space for change: Reflection, examination, articulation, and pursuance. In *Recipes to combat the "isms": Volume one—Equity* (pp. 7-14). ICPEL Press. [https://www.researchgate.net/publication/362931158\\_Recipes\\_to\\_Combat\\_the\\_Isms\\_Volume\\_One\\_-\\_Equity](https://www.researchgate.net/publication/362931158_Recipes_to_Combat_the_Isms_Volume_One_-_Equity).

Bailey, J. & Robert, C. (2022, Sept). Improving campus culture through/with strategic planning and efficient operations. In J. A. Vornberg, Y.O. Ortiz, & N. Templeton (Eds.), *Texas public school organization and administration*, 18th edition (pp. 415-432). Dubuque, IA: Kendall Hunt Publishing Company.

Bailey, J., McCray, T., Garner, C. (2023, Jan). *Reimagining the school community: Thinker Geoffrey Canada*. The Palgrave Handbook of Educational Thinkers. Palgrave Macmillan. [https://link.springer.com/referenceworkentry/10.1007/978-3-030-81037-5\\_129-1](https://link.springer.com/referenceworkentry/10.1007/978-3-030-81037-5_129-1)

# School of Education (continued)

Bailey, J., Miller, G., & Kaiser, F. (2023, July). Reframing systems to thrive: Teacher shortages in post-pandemic schools. In E. Azukas & M. Kim (Eds.), *Reimagining systems thinking in a post pandemic world*. IGI Global. DOI: 10.4018/978-1-6684-7285-9.ch013 <https://www.igi-global.com/chapter/reframing-systems-to-thrive/325889>

Delello, J. A., & Mokhtari, K. (2023). Student and Faculty Perceptions of Social Media Use and Relationships Inside and Outside the Higher Education Classroom. In I. Management Association (Ed.), *Research Anthology on Applying Social Networking Strategies to Classrooms and Libraries* (pp. 1161-1182). IGI Global. <https://doi.org/10.4018/978-1-6684-7123-4.ch063>

Lyon, M., & Hickey, W. (2022). *Learner-Centered Policy and Governance*. In *Texas Public School Organization and Administration*, 18th edition (pp. 561-578). Kendall Hunt.

Odell, M. R. L., Dyer, K., & Klett, M. (2023). Collaboration and Communication in Science and Technology Education. In *Contemporary Issues in Science and Technology Education*. Springer.

Thomas, C. L., Allen, K., Morales, C. M., & Mercer, J. (2022). Supporting Student Success: The Role of Test Anxiety, Emotional Intelligence, and Multifaceted Intervention. In *Stress and Academic Anxiety: Psychological Processes and Interventions with Students and Teachers*. [https://doi.org/10.1007/978-3-031-12737-3\\_3](https://doi.org/10.1007/978-3-031-12737-3_3).

Vornberg, J. A., Oliveras-Ortiz, Y., & Templeton, N. R. (Eds.). (2022). *Texas Public School Organization and Administration* (18th ed). Kendall Hunt.

Worch, E., Odell, M. R. L., & Magdich, M. (2022). Engaging Children in Science Learning Through Outdoor Play. In *Play and Emerging STEM in the Early Years Worldwide*. Springer International Publishing.

## JOURNAL PUBLICATIONS

Arzu, E. M., Agan, T., Miller, G. J., & Badgett, K. (2023). The role of stakeholders: Implications for continuous improvement in principal preparation. *School Leadership Review*, 17, 1-18. <https://scholarworks.sfasu.edu/slr/vol17/iss2/9>

Asempapa, R. S., Sturgill, D., & Gunpinar, Y. (2023). Mathematical modeling through the eyes of preservice elementary teachers. *Journal of Mathematics Research*, 15, 62-74. <https://doi.org/10.5539/jmr.v15n4p62>



Bailey, J., Kaiser, F., Thomas, C., Dillingham, S., Norwood, D., Smith, N., & Brown, A. (2022, Sept 9). The intersection of preparation and practice: School leadership learning through simulation. *NASSP Bulletin*, 106(3), 209-231. <https://doi.org/10.1177/01926365221117487>

Bretl, B. L. (2022). Adolescent Ratings of Moral Violations Moderated by Gender and Political Identity. *Trends in Psychology*. <https://doi.org/10.1007/s43076-021-00120-z>

Bretl, B. L., & Goering, M. (2022). Age- and sex-based differences in the moral intuitions of American early adolescents. *Evolutionary Human Sciences*, 4, e33. <https://doi.org/10.1017/ehs.2022.34>

Bretl, B. L., & Hansen, D. M. (2022). An exploration of the structure of moral intuitions in early adolescence. *Cognitive Development*, 64. <https://doi.org/10.1016/j.cogdev.2022.101248>



## School of Education (continued)

Consalvo, A., Doepker, G. M., Dubre, V., & Neel, J. L. (2022). A collaborative approach to teaching children's literature: Literacy education faculty and librarian collaborate to provide meaningful and engaging learning experiences for preservice teachers. *Language and Literacy*, 24(3), 106-129.

Consalvo, A., Doepker, G. M., Dubre, V., & Neel, J. L. (2022). Librarian-faculty collaboration for literacy courses: Promoting better learning for preservice teachers. *Language and Literacy*, 24, 106-129. <http://hdl.handle.net/10950/4101>

Covino-Poutasse, K., Consalvo, A., & Chase, N. (2022). Texts as open doors: Inviting students into the long conversation - A gender-focused example. *The Leaflet*, 119, 31-48.

David, A. D., & Consalvo, A. (2023). The Censorship Storm is Upon Us: Prepare, Respond, Report. *English in Texas*.

Delello, J. A., McWhorter, R. R., Roberts, P. B., De Giuseppe, T., & Corona, F. (2023). The risks and rewards of collegiate esports: A multi-case study of gamers in the United States and Italy. *The International Journal of Gaming and Computer-Mediated Simulations*, 15(1), 1-22. <https://doi.org/10.4018/IJGCMS.317115>

Doepker, G. M. (2023). The Power of Pen Pal Letter Writing. *The Social Studies Texan*, 39, 53-56.

Dyer, K., Childers, G., & Odell, M. R. L. (2022). Predictors of Academic Achievement in Dual Credit Students. *Journal of Advanced Academics*. *Journal of Advanced Academics*, 13, Article 2. <http://dx.doi.org/10.1177/1932202X211061134>

Grad, R. I., Thomas, C. L., & Gordy, D. (2023). Adverse childhood experiences, multidimensional perfectionism, and stress in young adults: A person-centered perspective. *Journal of Counseling & Development*, 45(2), 166-183. <https://doi.org/10.17744/mehc.45.2.05>

Grantham, T. M., Carter, M. D., Randolph, C., & Doepker, G. M. (2022). Predictive Values of Factors Affecting Reading Comprehension Assessment. *Literacy Practice and Research*, 47(4), Article 2. <https://digitalcommons.fiu.edu/lpr/vol47/iss4/2>

Gunpinar, Y., Reuben, A. S., & Sturgill, D. (2023). Preservice teachers' use of representations in a modeling task on area and perimeter. *Journal of Mathematics Teacher Education in Texas*, 13, 4-7.

## School of Education (continued)

Kaiser, F. J., & Bailey, J. (2022). Reinventing identity in transition from principal to professor: A collaborative autoethnography. *Cogent Education*, 9(1), 1-14. <https://doi.org/10.1080/2331186X.2022.2139119>

Kaiser, F. J. (2023). 3 Key Things Administrators Need to Know About Teacher Retention. *Teachers Connecting to Advance Retention and Empowerment (T-CARE)*, 14, 9.

Kaiser, F. J. (2023). #TeacherQuitTok: A content analysis of how current and former teachers navigate attrition on TikTok. *School Leadership Review*, 17(2), Article 7. <https://scholarworks.sfasu.edu/slr/vol17/iss2/7/>

Kirby, L. A. J., & Thomas, C. L. (2022). High-impact teaching practices foster a greater sense of belonging in the college classroom. *Journal of Further and Higher Education*, 46(3), 368-381. <https://doi.org/10.1080/0309877X.2021.1950659>

Lynn, T., Farnan, S., Rueter, J., & Moore, A. (2022). Looking behind the virtual lens: Field experience, modeling, coaching, supervision, and mentoring. *Journal of Special Education Preparation*, 2, 42-51. <https://openjournals.bsu.edu/JOSEP/issue/view/321>

Morris, D. (2022). Out of Left Field? Requiring Expertise to Teach Secondary Science: A Policy Brief. *Journal of Multicultural Affairs*, 7(3), Article 2. <https://scholarworks.sfasu.edu/jma/vol7/iss3/2/>

Neel, J. L., & Bennett, A. C. (2023). What I Learned From My Dad About Water. *Social Studies Texan*, 39, 33-36.

Oliveras-Ortiz, Y. (2023). Facilities beyond physical spaces: A case for the intentional design and use of learning space. 26(3). *Journal of Cases in Educational Leadership*. <https://doi.org/10.1177/15554589231171858>

Stephens, T. L., Gardner, R. L., Schultz, E. K., Holman, S. B., Moon, G., & Rueter, J. (2023). The state of the special education referral and assessment process. *The DiaLog*, 51, 4-9.

Stevens, R. (2022). We Are What We Build. *The Social Studies Texan*.

Stevens, R. (2023). Frederic Remington's West: Teaching Critical Thinking. *The Social Studies Texan*, 39, 45-47.

Stevens, R. (2023). Live Oak: American Naval Supremacy During the War of 1812. *The Social Studies Texan*, 39, 53-55.

Stevens, R., Holzbauer, S., & Nelson, J. (2023). Prove Your Point: Poetry, Prose, Primary Sources, and the Persuasive Essay. *The Social Studies Texan*, 39, 28-31.

Thomas, C. L., & Heath, J. (2022). Using latent profile analysis to investigate emotional intelligence profiles in a sample of American university students. *Psychology in the Schools*, 59(9), 1802-1824. <https://doi.org/10.1002/pits.22731>

Thomas, C. L., & Fitch, S. (2023). Handedness and Test Anxiety: An Examination of Mixed-Handed and Consistent-Handed Students, 4, e15. *Experimental Results*. <https://doi.org/10.1017/exp.2023.14>

Thomas, C. L., Sung, W., & Bretl, B. (2023). Emotional intelligence and anxiety in university students: evidence of a curvilinear relationship. *Journal of Further and Higher Education*, 1-13. <https://doi.org/10.1080/0309877X.2023.2185773>

Thomas, C. L. and Zolkoski, S. (2023). "A Multivariate Investigation of the Motivational, Academic, and Well-Being Characteristics of First-Generation and Continuing-Generation College Students," *Journal of Research Initiatives*, 7(3), Article 10. <https://digitalcommons.uncfsu.edu/jri/vol7/iss3/10>



# School of Education (continued)

## OTHER

Bailey, J. (2022). Evidence of the impact of simulations on school leader development and preparation. (November 10, 2022). Panelists: David DeJong, Dakota State University; Jennifer Bailey, University of Texas at Tyler; Sara Dexter, University of Virginia; Trent Grundmeyer, Drake University; Michael Johaneck, University of Pennsylvania. Hosted by SchoolSims.

Bailey, J. (2023). The impact of simulations on the resilience and well-being of school leaders and teachers. (March 21, 2023). Panelists: Ashley Ireland, Loyola Marymount University; Christopher Small, Florida State University; Erin Murray, University of Connecticut; Amy Serafini, Auburn University; Jennifer Bailey, University of Texas at Tyler. Hosted by SchoolSims.

Grad, R. I., Thomas, C. L., Zolkoski, S. M., & Sass, S. M. (2022). Building Trauma-Informed Schools. American Psychological Association Division 15 Educational Psychology.

Zolkoski, S. M., & Thomas, C. L. (2022). Mental health, social-emotional learning, and impacts policy can have on both. AERA SEL SIG Blog: Emerging Research & Practice in SEL.

## OTHER TEACHING MATERIALS

Delello, J. A. (2022). New Course Creation School Family and Community Partnerships EDCI 6330. In The University of Texas at Tyler.

Rueter, J., & Doepker, G. M. (2023). TOC-2 & WJ IV Test Administration & Scoring Video Recordings. In The University of Texas at Tyler.

## POSTER PRESENTATIONS

Bretl, B. (2022, August). American Adolescents' Ratings of Moral Violations Moderated by Gender and Political Identity. In APA 2022. APA.

Feng, L., Massey, P., & Odell, M. R. L. (2023, Summer). Creating a Pipeline of Future Engineers in Texas. In American Society for Engineering Education. ASEE. <https://peer.asee.org/42502>

Odell, M. R. L., Goldberg, E., Kirkland, P., & Urquhart, M. (2023, Summer). The USEA Induction and Professional Working Group. In UTeach Annual Conference. UTeach Institute.

## PRESENTATIONS

Arzu, E., Miller, G. J., Agan, T., & Badgett, K. (2023, July). The role of stakeholders: Implications for continuous improvement in principal preparation. In International Council of Professors of Educational Leadership (ICPEL) 2023 Orlando Conference: Inspiring Leadership for Innovation in Education. ICPEL.

Bailey, J., Kaiser, F. J., & Thomas, C. L. (2022, November). The intersection of preparation and practice: School leadership learning through simulation. In 2022 UCEA Annual Meeting. University Council for Educational Administration.

Bailey, J., Kaiser, F. J., Atchley, S., & Rhone, R. (2023, May). Transcending barriers and traversing new ones: School leaders extending communities of practice through twitter. In AERA Annual Meeting 2023. American Educational Research Association. <https://aera23-aera.ipostersessions.com/Default.aspx?s=31-E4-E1-42-3C-F2-60-6E-C3-9D-CF-75-06-CB-2F-E9>

Bretl, B. (2023, March). Supporting STEM Education through Academic Coaching. In Texas STEM Conference. Culclasure, B., Stocks, E. L., & Odell, M. R. L. (2023, Summer). An Analysis of School District Adoption of K-12 Engineering Curriculum (Evaluation) (DEI). In American Society for Engineering Education Annual Conference and Exposition. ASEE.

Delello, J. A., McWhorter, R. R., Roberts, P. B., & De Guiseppe, T. (2023, June). College Esports: The Benefits and Risks Impacting Both Personal and Academic Life. In ISTE Live 23. International Society of Technology in Education.

Cantu, D. (2023, June). Texas Program Improvement Network. In G. J. Miller, J. Taylor, & K. Badgett (Eds.), TEP SA Summer Conference 2023. Texas Elementary Principals and Supervisors Association (TEPSA).

Consalvo, A., & Rueter, J. (2023 May). "Keep this up!": Building in support for graduate students' writing in online courses. In American Educational Research Association Annual Meeting. American Educational Research Association.

Cormier, D. R., Mette, I., & Oliveras Ortiz, Y. (2022, Autumn). The ongoing development of culturally responsive instructional supervision: Pedagogy, praxis, and theory. In 2022 University Council for Educational Administration Convention Annual Convention.

David, A., Consalvo, A., & Jansky, K. (2023, February). This Story Matters: Writing Book Rationales to Support Book Selection Decisions. In Texas Council of Teachers of English Annual Meeting. Texas Council of Teachers of English.

DeJong, D., Bailey, J., Dexter, S., Grundmeyer, T., Johaneck, M. (2022, November). Evidence of the impact of simulations on school leader development and preparation. Panelists: David DeJong, Dakota State University; Jennifer Bailey, University of Texas at Tyler; Sara Dexter, University of Virginia; Trent Grundmeyer, Drake University; Michael Johaneck, University of Pennsylvania. Virtual. <https://schoolsims.com/blog/school-leader-development-and-preparation/>

# School of Education (continued)

Ghimire, N., & Mokhtari, K. (2023). Estimating the school, teacher, and student effects on reading achievement of US 15-year-olds. The 2023 American Educational Research Association (AERA) Annual Meeting, Chicago, IL United States. <https://www.aera.net/Events-Meetings/Annual-Meeting/2023-Annual-Meeting>.

Ghimire, N., & Mokhtari, K. (2023). School, teacher, and student impacts on reading scores: A study of 31-countries on top and bottom spectrum of PISA-2018 assessments. World Literacy Summit, Oxford University, Oxford, United Kingdom. <https://www.worldliteracysummit.org/>

Ireland, A., Small, C., Murray, E., Serafini, A., Bailey, J. (2023, March). The impact of simulations on the resilience and well-being of school leaders and teachers. Panelists: Ashley Ireland, Loyola Marymount University; Christopher Small, Florida State University; Erin Murray, University of Connecticut; Amy Serafini, Auburn University; Jennifer Bailey, University of Texas at Tyler. Virtual. <https://schoolsims.com/blog/resilience-and-well-being-of-school-leaders-and-teachers/>

Kaiser, F. J., & Bailey, J. (2022, November). A new lens: Lessons learned from the principalship to the professoriate, a collective case study. In UCEA Annual Convention. The University Council for Educational Administration.

Kaiser, F. J., Bailey, J., Rhone, R., & Atchley, S. (2022, November). Working across boundaries: School leaders redefining communities of practice through Twitter. In UCEA Annual Convention. The University Council for Educational Administration.

Kaiser, F. J. (2023, March). Faculty mentoring and support: A panel discussion. In TCPEA Membership Engagement Series. Texas Council of Professors of Educational Administration.

Kaiser, F. J. (2023, April). #TeacherQuitTok: A Content Analysis of How Teachers Navigate Quitting on Social Media. In 2023 East Texas Research Conference. The University of Texas at Tyler.

Love, E. (2023, January). Building a Principal Bench Through Principal Residencies. In G. J. Miller, W. Stanford, & K. Atkins (Eds.), Texas Association of School Administrators (TASA) 2023 Midwinter Conference. Texas Association of School Administrators (TASA).

McCray, T. & Bailey, J. (2022, November). The perspectives of Black male elementary teachers from the south. UCEA 2022 Annual Convention, November 17-20, 2022. Seattle, Washington.

Mokhtari, K., (2023). The Knowledge Deficit: Why Educational Outcomes Are Disappointing for So Many Students and How We Can Help Them Succeed. Keynote address given at the inaugural Spring University Conference hosted by Al-Akawayne University, Ifrane, Morocco.

Morris, D. (2023, February). Practical STEM Integration: Embedding Engineering Design in 5E Inquiry Instruction. In Texas STEM Conference. Texas STEM Coalition. Texas State University, San Marcos, TX, United States.

Neel, J. L. (2023, April). How a University Tutorial Program Course Has Been Adapted to Meet the Literacy Needs of Students in a Post-Covid Era. In East Texas Research Conference. East Texas Research Conference-The University of Texas at Tyler.

Neel, J. L. (2023, April). Summer Literacy Strategies. In East Texas Center of School-Based Research Instruction. East Texas Center of School-Based Research Instruction-The University of Texas at Tyler.

Odell, M. R. L., & Kennedy, T. J. (2022, Spring). The GLOBE Program: A Free ESS NASA Supported Program. In Texas STEM Conference. Texas STEM Coalition. Odell, M. R. L. (2022, Autumn). The University Academy: A Case Study in School Improvement. In Lab Schools Europe Conference.

Odell, M. R. L., & Kennedy, T. J. (2022 Autumn). Laboratory Schools Role in the Preparation of STEM Preservice Teacher in the Time of Covid. In Critical Questions in Education.

Odell, M. R. L., Kennedy, T. J., & Fischer, K. (2022, Autumn). STEM Clinical Practice in a Pandemic. In Southwest Association of Science Teacher Educators Conference. Association of Science Teacher Educators.

Odell, M. R. L. (2023, Spring). Utilizing Improvement Science to Improve Student Outcomes in K-12 and Higher Education. In East Texas Research Conference. UT Tyler.

Odell, M. R. L., & Kennedy, T. J. (2023, Spring). School Improvement Laboratories to Inform Policy and Practice: The case for Project- and Problem-Based Learning. In International Congress for School Effectiveness and Improvement.

Odell, M. R. L., Kennedy, T. J., & Simmons, J. A. (2023, Spring). Designing and Maintaining High-fidelity Laboratory School Models. In International Association of Laboratory Schools Conference. International Association of Laboratory Schools.



## School of Education (continued)

Ogodo, J., & Morris, D. (2023, April). Using Cultural Border-Crossing Experience to Enhance Preservice Teachers' Pedagogical Practice in Urban Settings. In AERA Annual Conference. American Educational Research Association. Chicago, IL, United States.

Oliveras-Ortiz, Y., & Lane, J. (2022, October). Instructional supervision for educational excellence in Belize. In Council of Professors of Instructional Supervision Fall 2022 Conference. Council of Professors of Instructional Supervision.

Pape, S. J., Gunpinar, Y., Bell, C. V., & John Bull, R. M. (2022, January). The case for noticing in technology-enhanced Algebra I classroom instruction. In Hawaii International Conference on Education.

### PROCEEDINGS PUBLICATIONS

Sung, W., An, H., & Thomas, C. L. (2022). A Comparison Between Primary and Secondary Teachers' Online Teaching Experiences in U.S K-12 Schools. SITE Interactive Conference, 112-116.  
<https://www.learntechlib.org/primary/p/221578/>

### REVIEWS

Doepker, G. M. (2022). Review of DIZZY Book Review. The Social Studies Texan.

Doepker, G. M. (2023). Review of We Are Water Protectors Book Review. 67-68. The Social Studies Texan.

Stevens, R. (2023). Review of 'Mapping Christopher Columbus: An Historical Geography of His early Years to 1492'. Volume 39 Number 2, pp.69-71. The Social Studies Texan.

### GRANTS

Bretl, B., (PI), Willis, K., (Co-PI). Unified Medical Experience Talent Tracking and Support, University of Texas at Tyler (September 1, 2022), USD \$32,920.

Kumar, P. Strada Education II, University of Texas System (January 1, 2023), USD \$80,000.

Mokhtari, K. A Partnership Between the K-16 Literacy Center and The Cumberland Leadership Academy, Cumberland Leadership Academy (September 1, 2022), USD \$12,500.

Oliveras-Ortiz, Y. Ed Prep Direct Grant Program, Texas Higher Education Coordinating Board (July 21, 2023), USD \$41,666.

Swain, C. Rise as One for UT Tyler Students' Success, Texas Higher Education Coordinating Board (November 14, 2022), USD \$180,000.

Swain, C. Equitable Student Pathways Year 2, University of Texas System (January 30, 2023), USD \$29,200.



# College of Engineering

Engineering and construction management are transformative disciplines that leverage creativity, critical thinking, and applied math and science to synthesize innovative solutions to complex problems and grand challenges. The scholarly accomplishments of the faculty and students have helped elevate the College's national profile. This year, US News & World Report ranked the College of Engineering 42nd in the nation amongst institutions that do not offer a doctorate in engineering. The following are just a few of our faculty's scholarly accomplishments over the past year.

Dr. Souliman, the Principal Investigator (PI), and Dr. Isied, the Co-PI, successfully secured funding totaling \$140,000 from the USDA-ARS program. This funding will support their study on the mechanical performance of hot mixed asphalt mixed with sugarcane bagasse fibers. Additionally, at the Transportation Research Board Annual Meeting in Washington D.C. in January 2024, Dr. Souliman, Dr. Isied, and their graduate student, Pratik Lama, collectively presented six papers. These papers covered various topics, from reclaimed asphalt pavement (RAP) characterization to using artificial neural networks to predict future HMA performance. This showcase highlights the diverse and impactful work being conducted at TRTRC.

The Jasper Department of Engineering faculty has published dozens of scholarly works this year. In addition, Dr. Aaditya Khanal was recently awarded \$714,125 by the Department of Energy for the grant "Probing CO2 Dissolution and Mineralization in Deep Saline Aquifers with Experiment and Simulation". The results of this work will help lessen the impacts of carbon dioxide emissions on the Earth's climate.

In the Department of Mechanical Engineering, Dr. Fumo and Dr. Biswas led two teams of students to win a \$15,000 prize per team from DOE in the concept phase and again to advance and be awarded an additional \$20,000 per team, as well as mentorship services, for their activities to help ensure the benefits of clean energy are felt in local underserved communities. The competition will conclude with the third and final impact phase, in which teams will compete for a share of the \$100,000 grand prize. The grand prize winners will be announced in May. Additionally, USDA awarded Dr. Khajah a grant to develop a multizone anisotropic acoustic metamaterial to assist in distinguishing specific pests and pollinators in the open field. This grant is part of a multi-year project that Dr. Khajah will be leading. Dr. Ibrahim filed a patent pending application for innovative developments in self-powered sensing technology embedded in hip projects.

During the 2023/2024 academic year, Dr. Tabassum received \$237,355 in funding from USDA-ARS for the "Utilization of Cutting-edge Real-time Sensor Technology in Sugarcane Breeding and Production." Dr. Tabassum was honored with the Young Professional Award from IEEE Sensors Council, while her students achieved several accolades, including the Best Spotlight Pitch Award from IEEE Women In Engineering Climate Tech Big Idea Pitch Competition, Best Student Paper Award Finalist from IEEE International Conference on Flexible, Printable Sensors and Systems, 1st and 3rd places at Women in Sensors Video Competition from IEEE Biosensors Conference, Best Poster Award - 4th Place from Texas Space Grant Consortium at NASA, and 1st and 3rd places at Big Idea Pitch Competition, Track: Health & Life Sciences from East Texas Entrepreneurship Center at UT Tyler. Dr. Sundaravadivel has developed a stand-alone monitoring framework with embedded AI algorithms to analyze fish health. Additionally, her Center for Robotics and Intelligent Systems (CeRIS) team has published over 21 papers in reputed IEEE, ACM, and Elsevier conferences and journals.

Javier Kypuros, Ph.D.  
Dean, College of Engineering

## Chemical Engineering

### JOURNAL PUBLICATIONS

Cao, Z., Iskhakova, L., Sun, X., & Dong, J. (2023). A study on the synthesis and proton transport behavior of multilayered ZSM-5 zeolite nanosheet membranes laminated on polymer substrates. *Membranes*, 13(3).  
<https://doi.org/10.3390/membranes13030305>

Iskhakova, L., Cao, Z., Sun, X., Gabski, J., & Dong, J. (2023). Preactivated zeolite nanosheet plate-tiled membrane on porous PVDF film: Synthesis and study of proton-selective ion conduction. *Journal of Membrane Science*, 669(5).  
<https://doi.org/10.1016/j.memsci.2022.121328>

Jafari, B., Lacerda, C. M., & Botte, G. (2023). Facile electrochemical preparation of hydrophobic antibacterial fabrics using reduced graphene oxide/silver nanoparticles. *Chem Electro Chem*, 10(6).  
<https://doi.org/10.1002/celec.202201111>

Wang, X., Kuban-Johnston, D., Lapuerta, P., & Lacerda, C. M. R. (2022). Telotristat ethyl reverses myxomatous changes in mice mitral valves. *Frontiers in Cardiovascular Medicine*, 9. <https://doi.org/10.3389/fcvm.2022.945672>

### POSTER PRESENTATIONS

Moinuddin, M., Proffer, E. L., Vechione, M. M., & Khanal, A. (2023, January). Application of Machine Learning Models to Predict Driver Left Turn Destination Lane Choice Behavior at Urban Intersections. In 102nd Annual Meeting of the Transportation Research Board. Transportation Research Board.

### PRESENTATIONS

Cao, Z., Iskhakova, L., Sun, X., Tang, Z., & Dong, J. (2022, November). Multilayered MFI-Zeolite Nanosheet Plates for Tiling Membranes on Porous Polyvinylidene Fluoride Substrates for Wastewater Desalination. In AIChE Annual Meeting. Orlando, FL.

Cao, Z., Iskhakova, L., Sun, X., Tu, M., & Dong, J. (2022, November). Porous Polytetrafluoroethylene Supported Silicalite Nanosheet Laminated Membrane Volatile Fatty Acid Separation from Anaerobic Bioreaction Broth. In AIChE Annual Meeting. Orlando, FL.

Iskhakova, L., Cao, Z., Sun, X., & Dong, J. (2022, November). Fabrication of ZSM-5 Zeolite Nanosheet Tiled Membranes on Macroporous Polymer Substrates as Ion Separators for Redox Flow. In AIChE Annual Meeting. Orlando, FL.



# Chemical Engineering (continued)

## PROCEEDINGS PUBLICATIONS

Moinuddin, M., Proffer, L., Vechione, M. M., & Khanal, A. (2023, January). Application of Machine Learning Models to Predict Driver Left Turn Destination Lane Choice Behavior at Urban Intersections. 102nd Annual Meeting of the Transportation Research Board.

## GRANTS

Khanal, A. Data-driven Approach to Problem Solving in Engineering Education Using Greenhouse Gas Mitigation Experiments and Simulations, Procter and Gamble (January 1, 2023), USD \$20,000.

Khanal, A. CDS&E: Data-driven modeling and analyses of CO2 transport in porous media, National Science Foundation (April 1, 2023), USD \$223,567.

Lacerda, C. (PI), Chou, S. (Co-PI). Development of a novel EGF-eluting scaffold for wound healing applications, University of Texas at Tyler (September 1, 2022), USD \$33,000.

Lacerda, C. UCSD PRIDE Faculty Development Program in Cardiovascular Sciences, National Institutes of Health (NIH) (October 1, 2022), USD \$23,000.

# Civil Engineering

## JOURNAL PUBLICATIONS

Bastola, N., Souliman, M., Dessouky, S., & Daoud, R. (2022). Structural health assessment of pavement sections in the southern central United States using FWD parameters. *Frontiers in Built Environment*, 8. <https://doi.org/10.3389/fbuil.2022.1026469>

Bastola, N. R., Souliman, M., Dessouky, S., & Daoud, R. (2023). Prediction of remaining service life for flexible pavement in the southern central states using FWD parameters. *Material Science & Engineering International Journal*, 7(1), 8-15. <https://medcraveonline.com/MSEIJ/prediction-of-remaining-service-life-for-flexiblepavement-in-the-southern-central-states-usingfwd-parameters.html>

Bastola, N., Souliman, M., & Vechione, M. M. (2023). Preliminary study on rutting performance of pavement structures under the effect of future autonomous vehicle movements. *Innovative Infrastructure Solutions*, 1. <https://doi.org/10.1007/s41062-022-01024-2>

Hu, S., Zhou, F., Scullion, T., Fernando, E., & Souliman, M. (2023). Quantifying the impact of reclaimed asphalt pavement on the skid resistance of surface mixtures. *Transportation Research Record*, 2677(11). <https://doi.org/10.1177/03611981231166387>

Khalifah, R., Souliman, M., & Bajusair, M. (2023). Development of prediction model for rutting depth using artificial neural network. *CivilEng*, 4(1), 174-184. <https://doi.org/10.3390/civileng4010011>

Proffer, L., & Souliman, M. (2022). 3-D Move mechanistic analysis and cost effectiveness of asphalt rubber and polymer modified asphalt pavement under various axle loading conditions. *Journal of Materials and Engineering Structures*, 9(3), 291-298. <https://revue.ummta.dz/index.php/JMES/article/view/3053>

Stewart, B., Moya, H., Raysoni, A. U., Mendez, E., & Vechione, M. M. (2023). Port-of-entry simulation model for potential wait time reduction and air quality improvement: A case study at the Gateway International Bridge in Brownsville, Texas, USA. *CivilEng*, 4(1), 345-358. <https://doi.org/10.3390/civileng4010020>

Zeida, W., Abu Dabous, S., AlRuzouq, R., Hamad, K., Souliman, M., & Mirou, S. (2022). Effect of air voids and asphalt content changes on laboratory and simulated longterm fatigue performance of asphalt concrete pavements. *Innovative Infrastructure Solutions*, 8(48). <https://doi.org/10.1007/s41062-022-01023-3>

## OTHER

Vechione, M. M., & Souliman, M. (2022). Traffic Signal Warrant Analysis: University Boulevard and Lake Drive, and University Boulevard and Woods Boulevard. UT Tyler Facilities Management Office.

## POSTER PRESENTATIONS

Acharjee, P., Souliman, M., Freya, F., & Fuentes, L. (2023, April). Artificial Neural Network-Based Dynamic Modulus Prediction Models for Colombian Mixtures Similar to Witczak and Hirsch Models. In *TextITE Spring Meeting*. ITE.

Daoud, R., Vechione, M. M., Gurbuz, O., & Sundaravadivel, P. (2023, April). Effects of Illumination on Crashes in a Midsize Town: A Case Study in Tyler, Texas. In *Texas Institute of Transportation Engineers (TextITE) Spring 2023 District Meeting*. TextITE.

Khalifah, R., & Vechione, M. M. (2023, April). Comparison of Machine Learning Models to Predict Crash Severity Under Adverse Road Weather Conditions: A Case Study in Texas. In *Texas Institute of Transportation Engineers (TextITE) Spring 2023 District Meeting*. TextITE.

Khalifah, R., & Souliman, M. (2023, April). Developing a model to predict bleeding areas in asphalt pavements using an Artificial Neural Network. In *TextITE Spring Meeting*. ITE.

# Civil Engineering (continued)

Lama, P., & Vechione, M. M. (2023, April). Comparison of Machine Learning Models to Predict Bike Lane Crash Severity in Texas. In *Texas Institute of Transportation Engineers (TextITE) Spring 2023 District Meeting*. TextITE.

Lama, P., & Souliman, M. (2023, April). Prediction of International Roughness Index of Flexible Pavement using Artificial Neural Network Modeling. In *TextITE Spring Meeting*. ITE.

Moinuddin, M., Proffer, E. L., Vechione, M. M., & Khanal, A. (2023, January). Application of Machine Learning Models to Predict Driver Left Turn Destination Lane Choice Behavior at Urban Intersections. In *102nd Annual Meeting of the Transportation Research Board*. Transportation Research Board.

Stewart, B., Vechione, M. M., Moya, H., & Raysoni, A. U. (2023, January). Port-of-Entry Simulation Model for Potential Wait Time Reduction and Air Quality Improvement: A Case Study at The Gateway International Bridge in Brownsville, Texas. In *102nd Annual Meeting of the Transportation Research Board*. Transportation Research Board.

## PROCEEDINGS PUBLICATIONS

Acharjee, P., Souliman, M., Freyle, F., & Fuentes, L. (2023, January). Development of Dynamic Modulus Prediction Model Using Artificial Neural Network for Colombian Mixtures. *Transportation Research Board 102nd Annual Meeting*.

Acharjee, P., Souliman, M., Khalifah, R., & Elwardany, M. (2023, January). Frequency- and Temperature-Dependent Dynamic Shear Modulus and Phase Angle Prediction Models Based on Existing Asphalt Binder Viscosity Data Using Artificial Neural Network (ANN). *Transportation Research Board 102nd Annual Meeting*.

Acharjee, P., Souliman, M., Freyle, F., & Fuentes, L. (2023, March). Development of Dynamic Modulus Prediction Model Using Artificial Neural Network for Colombian Mixtures. *2nd International Data Science for Pavements Symposium*.

Acharjee, P., & Souliman, M. (2023, April). Pavement Roughness Prediction Model for Texas with Artificial Neural Network (ANN). *TextITE Spring Meeting*.

Acharjee, P., Souliman, M., Freyle, F., & Fuentes, L. (2023, May). Development of Artificial Neural Network-based Dynamic Modulus Prediction Models for Colombian Mixtures Similar to Witczak and Hirsch Model. *East Texas Research Conference*.

Acharjee, P., & Souliman, M. (2023, June). Temperature and Frequency Based Dynamic Shear Modulus (|Gb\*|) and Phase Angle (db) Prediction Model from Viscosity Data for Modified Binder Using Artificial Neural Network (ANN). *10th International Conference of the European Asphalt Technology Association*.

Bastola, N. R., Souliman, M., & Dessouky, S. (2022, October). Assessing the Structural Health of the Pavement Sections using FWD Parameters. *International Symposium of Asphalt Pavements Conference*.

Bastola, N., Acharjee, P., Souliman, M., & Dessouky, S. (2023, June). Implementing Temperature-Based Artificial Neural Network (ANN) Modeling in Assessing Pavement Structural Conditions. *10th International Conference of the European Asphalt Technology Association*.

Hu, S., Zhou, F., Scullion, T., Fernando, E., & Souliman, M. (2023, January). Quantify The Impact of Reclaimed Asphalt Pavement on Skid Resistance of Surface Mixtures. *Transportation Research Board 102nd Annual Meeting*.

Karki, S., Souliman, M., Saygili, G., & Acharjee, P. (2022). Artificial Neural Network Fatigue Endurance Limit Model using Uniaxial Tension-Compression Fatigue Tests. *Transportation Research Record*.

Khalifah, R. S., Souliman, M., & Saygili, G. (2022). Predicting Subgrade Resilience Modulus and Soil-Water Characteristic Curve Coefficients Using Artificial Neural Network (ANN) Model. *TRB Annual Meeting*.

Khalifah, R., Souliman, M., Saygili, G., & Loganathan, K. (2023, January). Predicting Subgrade Resilience Modulus and Soil-Water Characteristic Curve Coefficients Using Artificial Neural Network (ANN) Models. *Transportation Research Board 102nd Annual Meeting*.

Khalifah, R., & Souliman, M. (2023, March). Development of Prediction Model for Rutting Depth Using Artificial Neural Network. *8th Annual LSUS Regional Student Scholars Forum*.

Khalifah, R., & Souliman, M. (2023, May). Predicting pothole number and area using artificial neural network. *East Texas Research Conference*.

Lama, P., & Souliman, M. (2023, March). Rutting Prediction Model based on Environmental and Traffic condition in Texas State Using Artificial Neural Network. *2nd International Data Science for Pavements Symposium*.

# Civil Engineering

## (continued)

Lama, P., & Souliman, M. (2023, May). Rutting Prediction Model based on Environmental and Traffic condition in Texas State Using Artificial Neural Network. East Texas Research Conference.

Moinuddin, M., Proffer, E., Vechione, M. M., & Khanal, A. (2023, January). Application of Machine Learning Models to Predict Driver Left Turn Destination Lane Choice Behavior at Urban Intersections. 102nd Annual Meeting of the Transportation Research Board.

Mutyala, P., Souliman, M., & Loganathan, K. (2023, June). Quantifying the Influence of Geosynthetics on Pavement Performance against Rutting. ASCE Airfield and Highway Pavements 2023 Conference.

Shirvaikar, M., Souliman, M., & Dessouky, S. (2023, April). Estimation of road surface quality using real-time video analysis. Real-Time Image Processing and Deep Learning Conference.

Smith, M., Beetge, J., Bastola, N., & Souliman, M. (2022, September). Exploring Pavement Industries as a Sustainable Market for Ocean Plastics Waste. The 2022 Association of Asphalt Paving Technologists Annual Meeting.

Smith, M., Beetge, J., Bastola, N., & Souliman, M. (2023, June). Modification of Asphalt Binders with Ocean Plastic Waste: Characterization of Binder Performance. ASCE Airfield and Highway Pavements 2023 Conference.

Stewart, B., Vechione, M. M., Moya, H., & Raysoni, A. U. (2023, January). Port-of-Entry Simulation Model for Potential Wait Time Reduction and Air Quality Improvement: A Case Study at The Gateway International Bridge in Brownsville, Texas. 102nd Annual Meeting of the Transportation Research Board.

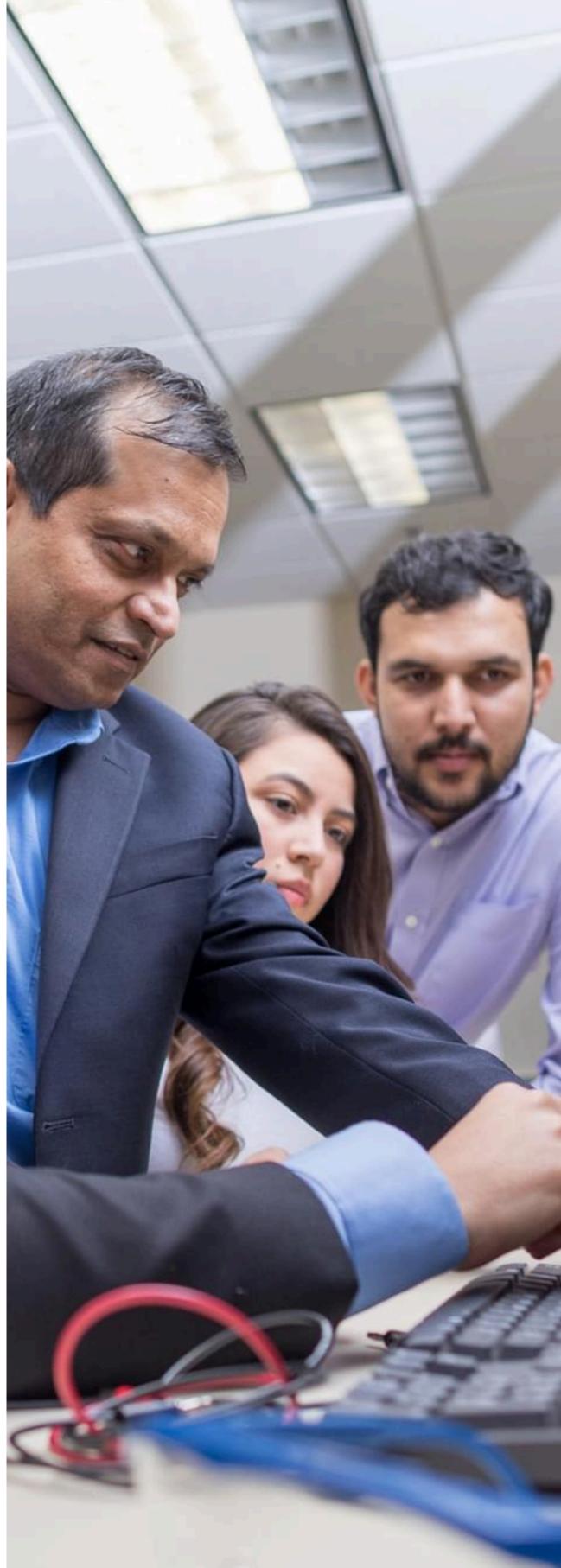
Souliman, M. (2022, October). Assessing the Structural Health of the Pavement Sections using FWD Parameters. The International Conference on Advanced Civil Engineering and Smart Structures.

Uddin, M. M., Stapp, J., Vechione, M. M., & Sundaravadivel, P. (2022). iMOST: An IoT Framework for Energy Efficient Street Lights. IEEE 8th World Forum on Internet of Things.

### GRANTS

Souliman, M. Develop Recommendations for Evaluating Surface Types and Aggregate Properties to Minimize Wet Weather Crashes, US Department of Transportation (November 10, 2022), USD \$15,985.

Souliman, M. Sugarcane Bagasse Effects on Mechanical and Mechanistic Performance of Hot Mixed Asphalt Mixtures, US Department of Agriculture (June 1, 2023), USD \$14,908.



# Electrical Engineering

## JOURNAL PUBLICATIONS

Babu, V. V., Roselyn, J. P., & Sundaravadivel, P. (2023). Multi-objective genetic algorithm based energy management system considering optimal utilization of grid and degradation of battery storage in microgrid. Energy Reports, 9, 5992-6005. <https://doi.org/10.1016/j.egy.2023.05.067>

Gentle, S. J., Travers, C. P., Nakhmani, A., Indic, P., Carlo, W. A., & Ambalavanan, N. (2022). Intermittent hypoxemia and bronchopulmonary dysplasia with pulmonary hypertension in preterm infants. American Journal of Respiratory and Critical Care Medicine, 207(7). <https://doi.org/10.1164/rccm.202203-0580OC>

Ghosh, P. K., Riam, S. Z., Ahmed, M. S., & Sundaravadivel, P. (2023). CMOS-Based memristor emulator circuits for low-power edge-computing applications. Electronics, 12(7), 1654. <https://doi.org/10.3390/electronics12071654>

Ghosh, P. K., & Sundaravadivel, P. (2023). Stretchable sensors for soft robotic grippers in edge-intelligent IoT applications. Sensors, 23(8), 4039. <https://doi.org/10.3390/s23084039>

## PATENTS

Reinhardt, M., Gilbertson, N., Indic, P., & Sundaravadivel, P. (2022b). Edge-Intelligent IoT-based Wearable Device for Detection of Cravings in Individuals. 17/857,342. <https://patents.google.com/patent/US20220359073A1/en>

## POSTER PRESENTATIONS

Ahmed, M. S., Sundaravadivel, P., Bi, X., Chou, C., Dafflon, B., Varadharajan, C., Skone, J., Wielandt, S., Wiedlea, A., Wu, Y., & Ramakrishnan, L. (2023, August). Estimation of Evapotranspiration using Neural Networks and TinyML. In Summer CS presentation @ Lawrence Berkeley National Lab. Sustainable Research Pathways and Department of Energy.

Ghosh, P. K., & Sundaravadivel, P. (2023, May). Design of Sensorized Soft Grippers for Automated Object Detection. In IEEE International Conference on Robotics and Automation (ICRA). IEEE.

Gomez, R., Pulaski, T., & Sundaravadivel, P. (2023, May). FPGA-based Controllers for Edge-Intelligence in Light-weight drones. In IEEE International Conference on Robotics and Automation (ICRA).

Kabir, M., Fitzgerald, A., & Sundaravadivel, P. (2023, May). Design and Characterization of soft hind legs for Amphibious Robots. In IEEE International Conference on Robotics and Automation (ICRA).

Kabir, M., Sundaravadivel, P., Bi, X., Chou, C., Dafflon, B., Varadharajan, C., Skone, J., Wielandt, S., Wiedla, A., Wu, Y., & Ramakrishnan, L. (2023, August). Micro-meteorological techniques in measuring Evapotranspiration with real-time systems using SVM. In Summer CS presentation at Lawrence Berkeley National Lab. Sustainable Research Pathways and Department of Energy.

## PRESENTATIONS

Hossain, N. I., & Tabassum, S. (2022, February). Sewable reduced graphene oxide coated nylon fibers for electronic textilebased strain sensing. In Texas Academy of Science Meeting.

Tiwari, V. K., Indic, P., & Tabassum, S. (2022, February). Correlation between cerebrospinal fluid biomarkers and cognitive decline in Alzheimer's patients and classification of stages with artificial neural network. In Texas Academy of Science Meeting.

## PROCEEDINGS PUBLICATIONS

Kabir, M., Mummadi, T. S., & Sundaravadivel, P. (2022, November). Poster: Towards Edge-Intelligent Wearable for early Drowning Detection. 16th International Conference on Underwater Networks & Systems (WUWNet'22). <https://doi.org/10.1145/3567600.3569547>

Kabir, M., Ghosh, P., Ahmed, M. S., Perumal, T., & Sundaravadivel, P. (2023, August). Design and Fabrication of Sensorized Soft Effectors for Modular Soft Robots. IEEE 7th International Conference on Automation, Control and Robots.

Mukherjee, R., Indic, P., Travers, C. P., Ambalavanan, N., & Ramanand, P. (2022). Stochastic Modeling of Inter-Hypoxemia Intervals in Preterm Infants. 2022 44th Annual International Conference of the IEEE Engineering in Medicine & Biology Society (EMBC).

Perez, F., & Tabassum, S. (2022, Summer). Plants as the first responder to adverse environmental conditions. SPIE Defense + Commercial Sensing.

Shirvaikar, M., Grecos, C., Clay, M., & Richey, B. (2023, April). Evolution of Hardware-Aware Neural Architecture Search on the Edge. SPIE International Conference on Real Time Image Processing and Deep Learning.

Shirvaikar, M., Souliman, M., & Dessouky, S. (2023, April). Estimation of road surface quality using real-time video analysis. SPIE International Conference on Real Time Image Processing and Deep Learning.

Tabassum, S. (2022, Summer). Real-time quantification of salicylic acid with a copper-based metal-organic framework functionalized plasmonic fiber-optic probe. SPIE Defense + Commercial Sensing.

# Electrical Engineering

Tabassum, S., & Sundaravadivel, P. (2023, April 16). Blending Entrepreneurial Education in Senior and Graduate-level Electrical Engineering Courses. 2023 IEEE 16th Dallas Circuits and Systems Conference (DCAS). <https://doi.org/10.1109/DCAS57389.2023.10130181>

Uddin, M. M., Stapp, J., Vechione, M. M., & Sundaravadivel, P. (2022, October). iMOST: An IoT Framework for Energy Efficient Street Lights. IEEE 8th World Forum on Internet of Things (WF-IoT). <https://doi.org/10.1109/wf-iot54382.2022.10152180>

Wilmoth, P., & Sundaravadivel, P. (2022, October 20). Easy-Turb: Light-weight cost-effective turbidity sensors for distributed underwater sensing systems. IEEE OCEANS 2022 Hampton Road. <https://doi.org/10.1109/OCEANS47191.2022.9977148>

## GRANTS

Sundaravadivel, P. Robotic Things for Sustainable Smart Cities - An Entrepreneurial Engineering Perspective, VentureWell (February 1, 2023), USD \$ 14,000.

Tabassum, S. Aqua-FIT: Early Diagnosis of Water Toxicity Driven by Fish-mounted Low-cost and Miniaturized Sensors, US Department of Agriculture (September 1, 2022), USD \$319,592.

Tabassum, S. Leaf Sensor Network for In Situ and Multiparametric Analysis of Crop Stressors, National Aeronautics Space Administration (March 1, 2023), USD \$ 100,000.

Tabassum, S. Smart Sensor-Suite For Monitoring Field Volatile Organic Compound And Ion Fluxes, US Department of Agriculture (May 1, 2023), USD \$299,999.

Tabassum, S. Aqua-FIT: Early Diagnosis of Water Toxicity Driven by Fish-mounted Low-cost and Miniaturized Sensors, US Department of Agriculture (August 1, 2023), USD \$237,355.

# Mechanical Engineering

## CREATIVE PRODUCTIONS

Barakat, N. (Ed.). (2023, Spring). Panel Organizer: Ethical issues with AI and Machine Learning. In Ethics Spring School. European Society of Engineering Education (SEFI) - Ethics SIG.

Barakat, N., & Jesiek, B. (2023, August). Invited Training Workshop: Codes, Cannons, and Beyond - Ethics Workshop. In NCEES annual meeting. NCEES / NIEE.

## JOURNAL PUBLICATIONS

Biswas, M. A. R. & Wilberforce, T. (2023). Dynamic thermal model development of direct methanol fuel cell using artificial neural network. International Journal of Thermofluids, 17. <https://doi.org/10.1016/j.ijft.2023.100294>

Biswas, M. A. R., Wilberforce, T., & Biswas, M. A. S. (2023). Prediction of transient hydrogen flow of proton exchange membrane electrolyzer using artificial neural network. Hydrogen, 4(3), 542-555. <https://doi.org/10.3390/hydrogen4030035>

Bumbard, K. B., Herrington, H., Goh, C.-H., & Ibrahim, A. (2022). Incorporation of torsion springs in a knee exoskeleton for stance phase correction of crouch gait. Applied Sciences, 12(14), 7034. <https://doi.org/10.3390/app12147034>

Cerrato, G., & Fumo, N. (2023). The by-product of ozone from electrostatic air cleaners. American Journal of Undergraduate Research, 19(4), 4, 13-29. <https://doi.org/10.33697/ajur.2023.071>

Gizaw, M., Bani Mustafa, D., & Chou, S.-F. (2023). Fabrication of drug-eluting polycaprolactone and chitosan blend microfibers for topical drug delivery applications. Frontiers in Materials, 10. <https://doi.org/10.3389/fmats.2023.1144752>

Jacob, A., Ashley, D., Goh, C. H., & Lucci, M. (2022). Feedback control of medication delivery device using machine learning-based control co-design. Journal of Software Engineering and Applications, 15(7), 220-239. <https://doi.org/10.4236/jsea.2022.157013>

Khajah, T., & Natarajan, S. (2023). Layup optimization of tow-steered composite laminates for maximum fundamental frequency and flutter speed using differential evolution. Composite Structures, 310. <https://doi.org/10.1016/j.compstruct.2023.116748>

Khan, J. X., Biswas, M. A. R., & Wilberforce, T. (2023). Development of an educational fuel cell system for mechanical engineering course. International Journal on Engineering, Science and Technology, 5(1), 62-73. <https://doi.org/10.46328/ijonest.142>

Pirruccio, C., Nikolov, K., & Biswas, M. A. R. (2023). Compliant extravehicular sample size location and calibration marker. International Journal of Student Project Reporting, 1(3), 261-282. <https://doi.org/10.1504/IJSPR.2023.132512>

Wilberforce, T., & Biswas, M. A. R. (2022). A study into proton exchange membrane fuel cell power and voltage prediction using artificial neural network. Energy Reports, 8, 12843-12852. <https://doi.org/10.1016/j.egyr.2022.09.104>



# Mechanical Engineering (continued)

## POSTER PRESENTATIONS

Bani Mustafa, D., Florova, G., Komissarov, A., & Chou, S.-F. (2023, April). Controlled drug delivery through the hierarchical design of microfibers. In 2023 East Texas Research Conference. UT Tyler.

Emerine, R., Florova, G., Komissarov, A., & Chou, S.-F. (2023, April). Delivery of poorly water-soluble drugs using polymer fibers and microparticles. In 2023 East Texas Research Conference. UT Tyler.

Gomes, O., Barakat, N., & Salim, M. (2023, April). Design of Smart Zoning Control for Air Conditioning Systems. In East Texas Research Conference 2023.

Massad, M., Barakat, N., & Salim, M. (2023, April). Design and Analysis for Portable Power and Desalination Unit. In East Texas Research Conference 2023.

Valdez, J., Woodcock, C., Stroud, J., Abeke, H., Nelson, Z., & Goh, C. H. (2023, April 21). Minimum Screw and Placement Necessary for Proper Hip Implant Security. In The East Texas Research Conference. University of Texas at Tyler.

Zahrawi1, A., Barakat, N., & Salim, M. (2023, April). Optimal Design and Planning for Fixed Photovoltaic System. In East Texas Research Conference 2023.

## PRESENTATIONS

Barakat, N. (2023, March). Invited Seminar: Sustainability Dimensions and Applications. In Hong Kong University of Science and Technology (HKUST) Leadership Program.

Chou, S.-F. (2022, September). Eletrospun drug-eluting microfibers for controlled drug delivery applications. In Faculty Research Seminar at The University of Texas Health Science Center at Tyler.

Fumo, N. (2023, March). The JUMP into STEM Experience. In ASEE Gulf Southwest Section 2023 Annual Conference. ASEE.

Khajah, T. (2023, Spring). Accurate and Efficient Acoustic Scattering Analyses. In Invited Talk.

Ranjpour, M., Bani Mustafa, D., Emerine, R., Florova, G., Idell, S., Chou, S.-F., & Komissarov, A. (2023, May). Plasminogen activators encapsulated into microfiber carriers to deliver and support sustainable plasminogen activation. In American Thoracic Society 2023.

## PROCEEDINGS PUBLICATIONS

Anthony, J., Goh, C. H., & Wang, Y. T. (2022, November 12). Redesign of Leg Assembly and Implementation of Reinforcement Learning for Robotic Walking Training Device. KSME Annual Meeting.

# Mechanical Engineering (continued)

## PROCEEDINGS PUBLICATIONS

Anthony, J., McMullen, J., Yazdanshenas, A., Perry, K., & Goh, C. H. (2023, April 21). Novel Method for Multiple Point Joint Analysis to Optimize Knee Joint Movement for Robot-Aided Gait Training. The East Texas Research Conference.

Barakat, N., & Shekh-Abed, A. (2022, November). Exploring Soft Skills Development via System Thinking Education. Frontiers In Education (FIE).

Biswas, M. A. R., & Khan, J. X. (2022, October). Development of an Educational Fuel Cell System For Mechanical Engineering Course. International Conference on Engineering, Science and Technology (IConEST).

Biswas, M. A. R., & Khan, J. X. (2022, November). Internally Developed Open Educational Textbook For Thermal Fluid Laboratory Course. International Conference on Studies in Engineering, Science, and Technology (ICSEST).

Biswas, M. A. R., Garcia, O., Reyes, L. H., Hoshivar, S., Salman, R., & Kurmishev, V. (2022, November). Energy and Cost Analysis of Ground Source Heat Pump Systems for Residential Application in Texas. International Conference on Studies in Engineering, Science, and Technology (ICSEST).

Biswas, M. A. R., & Rahman, M. H. (2023, February). Computational Fluid Dynamics Modelling of a Solid Oxide Electrochemical System. The International Conference and Exhibition for Science.

Khajah, T. (2023, Summer). Iterative On Surface Radiation Conditions for Isogeometric Single- and multiple-Scattering Analyses of Arbitrarily Shaped Obstacles. 17th U.S. National Congress on Computational Mechanics.

Rahman, M. H., & Biswas, M. A. R. (2023, February). A Computational Fluid Dynamics Approach for the Modeling of CO2 Separation from Flue Gas in Membrane Modules. The International Conference and Exhibition for Science.

Salim, M., Al-Shalash, A., Al-Shalash, O., Alsmairat, O., & Barakat, N. (2022, November). Early Detection of Metacognition Disparity Using a Fuzzy-Logic Based Model. Frontiers in Education (FIE).

Villamizar, V., Khajah, T., & Hale, J. (2023, August). Highly Efficient Iterative Method with High Order ABC for Acoustic Scattering. ICIAM (10th International Congress on Industrial and Applied Mathematics).

## GRANTS

Khajah, T. A Low Cost Acoustic Sensor for Bee Identification, US Department of Agriculture (May 1, 2023), USD \$65,984.



# Fisch College of Pharmacy

The Ben and Maytee Fisch College of Pharmacy (FCOP) was established in 2013, with the inaugural class beginning in 2015. The Mission of FCOP is to advance the public health and wellness of the citizens of East Texas and beyond through innovation and collaboration in pharmacy, education, scholarship, and advocacy. FCOP offers the Doctor of Pharmacy (PharmD) degree with a curriculum that includes active learning and team and interprofessional activities that emphasizes communication, critical thinking, and teamwork to solve real-world problems. Experiential training begins in the first semester and continues across all four years of the curriculum. Students explore a variety of patient care facilities and pharmacies learning alongside pharmacists, nurses, physicians and other healthcare practitioners. Through these encounters students establish positive relationships and networks across Texas and beyond.

FCOP graduates enter the profession with the necessary knowledge, skills and abilities for a meaningful professional career. The college includes two Departments, Clinical Science, led by Dr Jonathan Newsome; and Pharmaceutical Science and Health Outcomes, led by Dr. Rahmat Talukder. Scholarship areas being pursued by the faculty include (but are not limited to) drug discovery in areas related to various cancers, infectious diseases, and neurologic disorders (e.g., Alzheimer's and Parkinson's); bio and nano technologies; pain management and substance abuse, transitions of care, strategies to improve medication access, adherence and safety; and the advancement of student learning.

Scholarship initiatives are interdisciplinary with colleagues across UT Tyler, the state, nation, and globe. The faculty are continuously pursuing grants and have experienced great success, with outcomes being published and presented within national and international forums. Pharmacy students are engaged in research with faculty and other healthcare providers, and are sharing their outcomes at professional meetings. The FCOP faculty and students are actively contributing to the scholarship mission of the University, join me in celebrating their accomplishments.

Amy H Schwartz, PharmD, BCPS  
Dean and Professor, Ben & Maytee Fisch College of Pharmacy



## Clinical Sciences

### JOURNAL PUBLICATIONS

Eiland, L. S., Brown, T. R., Enderby, C. Y., Luchen, G. G., Smith, W. J., Trovato, J. A., & Chisholm-Burns, M. A. (2023). The ASHP Section of Pharmacy Educators Crystal Ball project: Insight into the future of pharmacy education. *American journal of health-system pharmacy: AJHP: official journal of the American Society of Health-System Pharmacists*, 80(4), 236-241. <https://doi.org/10.1093/ajhp/zxac332>

Yang, T., & Wooster, J. (2022). Evaluation of pharmacy students' knowledge and perceptions of transitions of care services. *Pharmacy Education*, 22(1), p. 10-15. <https://doi.org/10.46542/pe.2022.221.1015>

### OTHER TEACHING MATERIALS

Yett, E. S. (2022). Precepting 101: A Guide for Preceptors. In American Pharmacists Association. <https://www.pharmacist.com/Practice/Practice-Resources/Preceptors/Guide-for-preceptors>

### POSTER PRESENTATIONS

Renji, N., Kasseem, L., & Yang, T. "Cindy" (2022, December). Improving Medication Usage & Safety. In ASHP Midyear Clinical Meeting. American Society of Health-System Pharmacists.

### PRESENTATIONS

Yett, E. S. (2022, October). HPV Vaccine 101 - How to Communicate with other Providers and Patients. In APhA Midyear Regional Meeting.

Yett, E. S. (2022, October). Myth Busters: Vaccine Edition. In APhA Midyear Regional Meeting.



## Pharmaceutical Sciences

### CREATIVE PRODUCTIONS

Veronin, M. A., Ellsworth, A., & Bui, T.-D. (2022, May). Copyright. Opioid Drug Dosing Reference Guide. Case 1-11081187911. In U.S. Copyright Office. The University of Texas at Tyler.

### JOURNAL PUBLICATIONS

Alkhlaif, Y., El-Halawany, M., Toma, W., Park, A., Hamouda, A. K., & Damaj, M. I. (2023). L-theanine attenuates nicotine reward and withdrawal signs in mice. *Neuroscience letters*, 807, 137279. <https://doi.org/10.1016/j.neulet.2023.137279>

Bhattarai, S., Marsh, L., Knight, K., Ali, L., Gomez, A., Sunderhaus, A., & Abdel Aziz, M. H. (2023). NH125 Sensitized Staphylococcus aureus to Cell Wall-Targeting Antibiotics through the Inhibition of the VraS Sensor Histidine Kinase. *Microbiology spectrum*, 11(3), e0486122. <https://doi.org/10.1128/spectrum.04861-22>

Castaneda, M., Rodriguez, L., Oh, J., Cagle-White, B., Suh, H., Abdel Aziz, M. H., & Lee, J. (2023). A FOXC2 inhibitor, MC-1-F2, as a therapeutic candidate for targeting EMT in castration-resistant prostate cancer. *Bioorganic & medicinal chemistry letters*, 91, 129369. <https://doi.org/10.1016/j.bmcl.2023.129369>

Lin, Z., Aryal, S., Cheng, Y.-H., & Gesquiere, A. J. (2022). Integration of in vitro and in vivo models to predict cellular and tissue dosimetry of nanomaterials using physiologically based pharmacokinetic modeling. *ACS Nano*, 16(12), 19722-19754. <https://doi.org/10.1021/acsnano.2c07312>

Marasini, R., & Aryal, S. (2022). Indocyanine-type Infrared-820 Encapsulated Polymeric Nanoparticle-Assisted Photothermal Therapy of Cancer. *ACS omega*, 7(14), 12056-12065. <https://doi.org/10.1021/acsomega.2c00306>

Nguyen, T. D. T., Marasini, R., & Aryal, S. (2022). Re-engineered imaging agent using biomimetic approaches. *Wiley interdisciplinary reviews. Nanomedicine and nanobiotechnology*, 14(1), e1762. <https://doi.org/10.1002/wnan.1762>

Reinert, J. P., Veronin, M. A., & Medina, C. (2023). Tricyclic Antidepressants in Nociceptive and Neuropathic Pain: A Review of Their Analgesic Properties in Combination With Opioids. *The Journal of pharmacy technology : jPT : official publication of the Association of Pharmacy Technicians*, 39(1), 35-40. <https://doi.org/10.1177/87551225221139699>

Shoair, O. A., Smith, W. J., Abdel Aziz, M. H., Veronin, M. A., Glavy, J. S., & Pirtle, S. J. (2023). Pharmacy students' perceptions and attitudes toward face-to-face vs. virtual team-based learning (TBL) in the didactic curriculum: A mixed-methods study. *Medical education online*, 28(1), 2226851. <https://doi.org/10.1080/10872981.2023.2226851>

# Pharmaceutical Sciences (continued)

## PATENTS

Aryal, S., Pitchaimani, A., & Nguyen, T. D. (2022). Nanocarrier systems for imaging and delivery of active agents. PCT/US2019/063319. <https://patents.google.com/patent/US20220031869A1/en>

Veronin, M. A., Schumaker, R. P., & Dixit, R. R. (2020, November). Patent. The Pharmacovigilance System to Predict Drug Reaction Severity. The University of Texas at Tyler Provisional Application No. 62/989,413 (2692.0004). In U.S. Patent and Trademark Office, U.S. Department of Commerce. The University of Texas at Tyler.

## POSTER PRESENTATIONS

Neelam, A., Karki, S., Cagle-White, B., Solis, A., Ali, L., Alsmairat, O., Aryal, S., Abdel Aziz, M.H. (2022). Design and characterization of electrospun nanofiber membrane for antibacterial drug delivery. In 38th annual southern biomedical engineering conference. NIH.

Aly, R., Beaudoin, R., Sulthana, S., Hamouda, A., Aryal, S. (2022). Synthesis and characterization of nicotinic acetylcholine receptors positive allosteric modulator loaded polymeric nanoparticle to maximize brain bioavailability. In 38th annual southern biomedical engineering conference. NIH.

## PRESENTATIONS

Aryal, S., Rayamajhi, S., Nguyen, T., Sulthana, S. (2022). Optimizing extracellular vesicle isolation and re-engineering as a drug delivery system. In 38th annual southern biomedical engineering conference. NIH.

Aryal, S. (2023). Drug Delivery Nanotechnology; Today's status. In Invited Talk (International). Jeonbuk National University + Faculty Development Fund.

Aryal, S. (2023, June). Extracellular vesicles in drug delivery technology. Invited Talk (International). Department of Biomedical Engineering, Yonsei University, MIRAE campus, South Korea + Faculty Development.

Sulthana, S., Kattell, P., Trousil, J., Pearson, D., Aryal, S. (2022). Synthesis and characterization of polymeric nanoparticles: effect of nanoparticle density in cellular compatibility and uptake. In 38th annual southern biomedical engineering conference. NIH.

Sulthana, S., Aryal, S. (2023, March). Tumor-derived extracellular vesicles hybridized liposomes in cancer therapy. Biophysical Journal, Biophysical Society (NIH Grant). San Diego, CA. <https://doi.org/10.1016/j.bpj.2022.11.2450>

# Pharmaceutical Sciences (continued)

## PROCEEDINGS PUBLICATIONS

Gaona, J., Mohiuddin, M., Hamouda, A. K. (2023). Examining the effect of a substituted carbamate positive allosteric modulator on the  $(\alpha 4)\beta 2$  and  $(\alpha 4)\beta 2\beta 3$  nicotinic acetylcholine receptors. Biophysical Society, Biophysical Journal, 122(3), 395a. <https://doi.org/10.1016/j.bpj.2022.11.2157>

Sulthana, S., Kattel, P., Trousil, J., Pearson, D., & Aryal, S. (2022). Synthesis and characterization of polymeric nanoparticles: effect of nanoparticle density in cellular compatibility and uptake. 38th annual southern biomedical engineering conference.

Tabassum, S., & Aryal, S. (2022). Real-time quantification of CD63 with anti-CD63 functionalized plasmonic fiber optic probe. Optical Fibers and Sensors for Medical Diagnostics, Treatment and Environmental Applications XXII, 11953. <https://doi.org/10.1117/12.2604375>

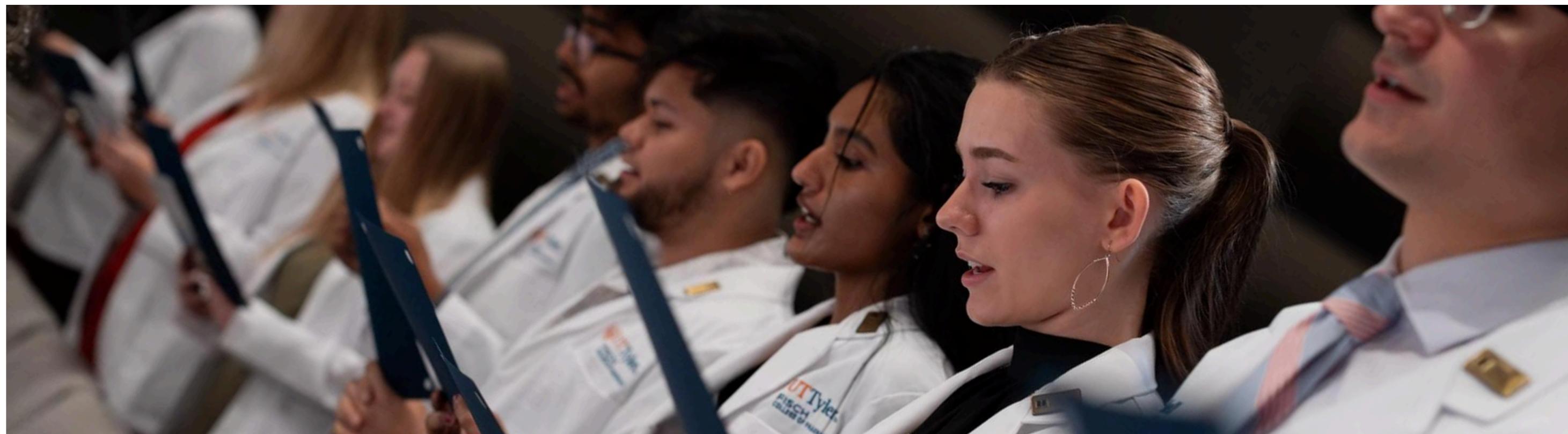
## GRANTS

Aryal, S. (PI), Vankayalapati, R. (Co-PI). Natural killer cell-mimicking nanocarrier for tumor target drug delivery, University of Texas at Tyler (September 1, 2022), USD \$33,000.

Aryal, S. Imagion Biosystems Contract 2022, Imagion Biosystems (March 1, 2023), USD \$10,000.

Aryal, S. Development of a web-based predictive model of nanoparticle delivery to tumors by integrating physiologically-based pharmacokinetic modeling with artificial intelligence, National Institutes of Health (June 1, 2023), USD \$307,861.

Hamouda, A. (PI), Tang, H. (Co-PI). Anti-Inflammatory Potential of Nicotinic Receptor Potentiators in Acute Lung Injury, University of Texas at Tyler (September 1, 2022), USD \$32,950.



# School of Health Professions

The School of Health Professions is the only academic unit at UT Tyler with programs that span the Health Science Center and Academic campus. The SHP is committed to (1) advancing the quality of population health outcomes in East Texas, (2) promoting wellness through research, education, and community and clinical programs, and (3) training the next generation of health professionals. The School includes 27 full-time faculty members in four academic departments: Kinesiology, Public Health, Healthcare Policy, Economics, and Management, and Rehabilitation Sciences. Health Professions faculty are actively involved in a wide variety of research and scholarship impacting the health and well-being of East Texans and beyond.

Over the past year, SHP faculty published multiple peer reviewed research articles, presented scholarly presentations, and authored books and book chapters. To highlight a few areas of research — Department of Kinesiology faculty are involved in interdisciplinary research groups to study balance and risk of falls in older adults. One group, led by Dr. Woohyoung Jeon is assessing how age-related changes in leg strength and biomechanics can impact balance and risk of falls. A second group, including Dr. Neil Dong and Mr. Andrew Cage is seeking to create a wearable sensor that automatically detects a fall so that medical help can be obtained quickly. Dr. Madhura Maiya in the Department of Kinesiology is examining the nutritional value of resistant starches and their potential for combating insulin resistance and type II diabetes. Department of Public Health faculty are collaborating with researchers at UT Houston to evaluate early childhood health screening in Northeast Texas and along with HPEM faculty are working on the UT Houston CTSA grant. They are also working with colleagues in the School of Nursing on Public Health Informatics training.

Health Policy, Economics and Management faculty are involved in a Texas Department of State Health Services-funded project to establish community-based consortiums for increasing vaccine uptake in East Texas and are collaborating with the School of Medicine and the Department of Public Health on translational research projects involving community outreach. In the Department of Rehabilitation Sciences, Dr. Tina Melamed is studying language use and development in children, using behavioral and physiological measurements to investigate how experiences, environment, and socio-economic status interact to support language development. These are just a few of the research projects that the School of Health Professions faculty are pursuing.

I'm proud to celebrate the scholarship of our faculty as we work to improve the lives of all Texans.

Theresa Byrd, DrPH, MPH, RN  
Dean, School of Health Professions



## Healthcare Policy, Economics, and Management

### BOOKS

Bosworth, M., Ledlow, G., & Thomas, M. (2023). Leadership for Health Professionals: Theory, Skills, and Applications. Jones & Bartlett Learning.  
<https://www.jblearning.com/catalog/productdetails/9781284254785>

### CHAPTERS

Thomas, M. (2023). Leadership in the Complex Healthcare Payer Ecosystem. In Leadership for Health Professionals: Theory, Skills, and Applications (p. 61). Jones & Bartlett Learning.  
<https://www.jblearning.com/catalog/productdetails/9781284254785>

Kennedy, M. H., Wood, K. H., Ledlow, G. R., & Bosworth, M. (2023). Administrative applications supporting healthcare delivery. In Health Informatics: An Interprofessional Approach (3rd ed.) (p. Chapter 8). Elsevier.

### JOURNAL PUBLICATIONS

Bush, K., Patrick, C., Elliott, K., Morris, M., Tiruneh, Y., & McGaha, P. (2023). Unsung heroes in health education and promotion: How community health workers contribute to hypertension management. *Frontiers in Public Health*, 11(1088263).  
<https://doi.org/10.3389/fpubh.2023.1088236>

Hair, J., Thomas, M., & Lienick, C. (2022). Identification of barriers preventing biosimilar oncology medication adoption. *Medicina*, 58(11), 1533.  
<https://doi.org/10.3390/medicina58111533>

Thomas, M., Dubre, V., Elliott, K., Escareno, J., Fagan, M. H., Standridge, E., & Lieneck, C. (2022). COVID-19 academic integrity violations and trends: A rapid review. *Education Sciences*, 12(12), 901.  
<https://doi.org/10.3390/educsci12120901>

Tiruneh, Y. S., Elliott, K. S., Oyer, L., Elueze, E., & Casanova, V. (2022). Addressing substance use and misuse in East Texas: Stakeholder-driven needs and priorities. *International Journal of Environmental Research and Public Health*, 19(22), Article 15215.  
<https://doi.org/10.3390/ijerph192215215>

### PROCEEDINGS PUBLICATIONS

Collins, R. A., Zeitouni, J., Veasart, A., Chacon, J., Wong, A., & Byrd, T. (2022). Establishment of a vaccine administration training program for medical students. *Proceedings (Baylor University. Medical Center)*, 36(2), 157-160. <https://doi.org/10.1080/08998280.2022.2137373>



# Kinesiology

## CHAPTERS

Njororai Simiyu, W. W. (2022). Recreation planning and management. In *The Palgrave Handbook of Urban Development Planning in Africa* (pp. 291-326). Routledge Palgrave. <https://link.springer.com/book/10.1007/978-3-031-06089-2>

Njororai Simiyu, W. W. (2022). Contextualization of Africa's Historic Boycott of the 1966 World Cup and its Legacy. In *Sport and Protest in the Black Atlantic* (pp. 105-127). University Press of Mississippi. <https://www.taylorfrancis.com/books/edit/10.4324/9781003320364/sport-protest-black-atlantic-brian-mcgowan-michael-gennaro>

## JOURNAL PUBLICATIONS

Bezerra, A. L., Sorensen, W., Rodrigues, T. B., Sousa, S. M., Carneiro, M. S., Polaro, S. H., Ramos, A. M., Ferreira, G. R., Gir, E., Reis, R. K., & Botelho, E. P. (2022). HIV epidemic among Brazilian women who have sex with women: An ecological study. *Frontiers in Public Health*, 10. <https://doi.org/10.3389/fpubh.2022.926560>

Fedocci, E. M., Antonini, M., Sorensen, W., Rocha, K. A., Gir, E., & Reis, R. (2023). Construction and validation of an e-book about cardiovascular risk in people living with the human immunodeficiency virus. *Acta Paulista de Enfermagem*, 36, Article eAPE00733. <https://doi.org/10.37689/acta-ape/2023AO0073333>

Hudson, J., & Njororai Simiyu, W. W. (2022). Accessibility of walking and biking as forms of exercise in Harris County, Texas, USA. *Journal of Education and Recreation Patterns (JERP)*, 3(2), 77-89. <https://doi.org/10.53016/jerp.v3i2.55>

Jeon, W., Whitall, J., Alissa, N., & Westlake, K. (2022). Age-related differences in stepping stability following a sudden gait perturbation are associated with lower limb eccentric control of the perturbed limb. *Experimental Gerontology*, 167, Article 111017. <https://doi.org/10.1016/j.exger.2022.111917>

Jeon, W., Borrelli, J., & Hsiao, H. (2023). Effects of visual input absence on balance recovery responses to lateral standing surface perturbations in older and younger adults. *Journal of Applied Biomechanics*, 39(3), 184-192. <https://doi.org/10.1123/jab.2022-0029>

Jeon, W., Ramadan, A., Whitall, J., Alissa, N., & Westlake, K. (2023). Age-related differences in kinematics, kinetics, and muscle synergy patterns following a sudden gait perturbation: Changes in movement strategies and implications for fall prevention rehabilitation. *Applied Sciences*, 13(15), Article 9035. <https://doi.org/10.3390/app13159035>

Maiya, M., Adorno, A., Toulabi, S. B., Tucker, W. J., & Patterson, M. A. (2023). Resistant starch improves cardiometabolic disease outcomes: A narrative review of randomized trials. *Nutrition Research*, 114, 20-40. <https://doi.org/10.1016/j.nutres.2023.04.001>

Njororai Simiyu, F. J., Ganu, D., Cholo, W., & Nyaranga, C. K. (2023). Occupational health and safety policy compliance among community health workers in Western Kenya. *Journal of Health and Environmental Science*, 2(1), 16-32. <https://journals.aau.ke/ajhes/article/view/357>

Seabra, I., Ferreira, G. R., Sorensen, W., Oliveira, C., Parenta, A. T., Gir, E., Reis, R. K., Ferrari, R. A., & Botelho, E. (2022). Spatial scenery of congenital syphilis in Brazil between 2007 and 2018: An ecological study. *BMJ Open*, 12(4), Article e058270. <https://doi.org/10.1136/bmjopen-2021-058270>

## OTHER

Njororai Simiyu, W. W. (2022). Kenya. FORGOTTEN HEROINES: The Untold History of Women's Football Worldwide, 1-6. <https://forgotten-heroiners.com/2022/09/17/kenya/>

Njororai Simiyu, W. W. (2022). Le Maroc à la Coupe du monde: les 6 raisons d'une victoire historique. *The Conversation.com*

Njororai Simiyu, W. W. (2022). What to watch for when you are watching the World Cup: Essential reads for on and off the field. *The Conversation.com*

Njororai Simiyu, W. W. (2022). World Cup 2022: either Morocco or Senegal could break the glass ceiling. *The Conversation.com*

Njororai Simiyu, W. W. (2022). World Cup 2022: Senegal and Cameroon carry Africa's best hopes. *The Conversation.com*



# Kinesiology (continued)

## POSTER PRESENTATIONS

Parti, A. (2022, November). Leveraging Social Media Technologies into Innovative Forms of Pedagogy: Implications Towards Contemporary Occupational Therapy Education. In *Education Summit American Occupational Therapy Association*. AOTA.

## PRESENTATIONS

Arce-Esquivel, A. A. (2023, June). "Effects of Altitude on Nutrition for Health and Sports Performance." In *International Symposium: High Altitude and Nutrition*.

Arce-Esquivel, A. A. (2022, December). "The Aging Athlete: Way to Go." In *International Symposium: Physical Activity and the Aging Process*. School of Health Sciences - Universidad Peruana de Ciencias Aplicadas (UPC), Lima - Peru.

Dong, X. N. (2022, July). An Open-Source Program for Extracting Pixel-by-Pixel Bone Mineral Density (BMD) Maps from Dual-Energy X-Ray Absorptiometry (DXA) Scans. In *9th World Congress of Biomechanics*. World Council of Biomechanics.

Jeon, W., Borrelli, J., & Hsiao, H. (2023, Summer). Effects of visual input absence on balance recovery responses to lateral standing surface perturbations in older and younger adults. In *American College of Sports Medicine (ACSM)*.

Jeon, W., Whitall, J., & Westlake, K. (2022, November). Contribution of lower limb eccentric control to balance recovery from surface drop perturbations. In *ACRM - American Congress of Rehabilitation Medicine*. <https://doi.org/10.1016/j.apmr.2022.08.545>

Lowe, T., Alighanbari, M., Griffin, L., & Dong, X. N. (2022, February). Acute prolonged vibration of the hamstrings reduces tibiofemoral compressive forces following anterior cruciate ligament reconstruction. In *Annual ORS Meeting - Orthopaedic Research Society*.



## REVIEWS

Sorensen, W. (2022). Collective Biologies: Healing social ills through sexual health research in Mexico by Emila A. Wentzell. *The Latin Americanist*. 461-462. <https://doi.org/10.1353/tla.2022.0042>

## GRANTS

Njororai, F. Rural Communities Opioid Response Implementation, Health Resources & Services Administration (HRSA) (January 1, 2023), USD \$25,133.

Sorensen, W. Strengthening "Champions for Children": A Multi-system Evaluation for Early Childhood Screening in Northeast Texas, National Institutes of Health (August 1, 2023), USD \$25,000.

# School of Medicine

At the School of Medicine, our purpose is to improve the quality of life and health throughout East Texas. We want to address health care issues in the community, including the physician shortage and lack of health care access. To do so, innovating and developing new techniques, interventions, educational approaches, and treatments through scholarship is critical.

We have multiple departments and centers that are essential to achieving these goals: the Center for Biomedical Research, the Department of Preventive Medicine and Population Health, the Center for Clinical Research, the Department of Occupational and Environmental Medicine, our multiple clinical departments including Surgery, Family Medicine, and Internal Medicine, as well as emerging Institutes and Centers, including the Center for NTM Research and the Neurosciences Institute.

At the Center for Biomedical Research, nationally recognized scientists identify novel therapies to improve human health. Their research focuses on cardiovascular disease; acute, chronic and infectious lung diseases; thoracic malignancies and immunologic problems. Students of the Master of Science in Biotechnology program have presented their research alongside their faculty mentors at international conferences and society meetings. In the last year, many of the faculty's publications included student contributions.

The Department of Preventive Medicine and Population Health functions as the community engagement arm of our four-fold mission. The faculty teach Master of Public Health and Master of Health Administration courses, instruct physicians in the General Preventive Medicine Residency and train community health workers. This department offers a variety of lifestyle change programs, including the Diabetes Prevention Program, Hypertension Workshops, Hypertension Monitoring/Support, Active Living After Cancer, Your Diabetes and Your Heart, and Tobacco Cessation. Research in the department is wide-ranging and includes infectious disease education and mitigation through testing and vaccination as well as breast and cervical cancer screening outreach grants.

The Center for Clinical Research conducts clinical trials in East Texas, delivering evidence-based, cost-effective medical care throughout the region. Its studies focus on pulmonary medicine, cardiology, neurology and oncology. Its renowned Investigators and Staff are first enrollers on several industry- and grant-funded research projects for patients diagnosed with Bronchiectasis, Non-Mycobacterium Tuberculosis, Cystic Fibrosis, and more. The Center can be accessed at [clinicalresearch.uttyler.edu](http://clinicalresearch.uttyler.edu).

The Department of Occupational and Environmental Medicine collaborates with the CDC National Institute for Occupational Safety and Health to create safer workplaces. The faculty researched how COVID-19 impacted industrial sectors to prepare US companies for future pandemics. The Southwest Ag Center is a key component of this department. The main goal of the Southwest Ag Center, led by Dr. Casanova, is to improve the health of agricultural, forestry and fishing (AFF) workers by providing outreach to the five southwest states.

The School of Medicine has done some big things in East Texas—and there's more to come. We recently matched with our second cohort of 40 students, who will form our second class this July. Our Biotechnology students continue to amaze. Our over 200 residents and fellows engage in scholarship as well, every day. We are also in the planning stages for the first PhD program in biomedical sciences in Northeast Texas. With all of these exciting developments and the discoveries from both our past and current research, I'm excited to see how the School of Medicine will continue to impact our region and the community.

Brigham C. Willis, MD, MEd, FAAP  
*Founding Dean, School of Medicine*

## Behavioral Health

### GRANTS

Marcus, J.D., Clover Community Outreach Program, Clover Educational Consulting Group Inc (January 1, 2023), USD \$6,400.

Ross-Young, H.E., Disseminating Evidence-Based LGBTQ+ Education to Rural Students in Graduate Medical Education Programs, Kenneth Shine Academy of Health Sci Ed (March 1, 2023), USD \$5,000.

Simmons, S.J. Graduate Psychology Education Programs, Health Resources & Services Administration (HRSA) (September 1, 2022), USD \$280,894.

### BOOKS

Parrish, N. M., Wengenack, N. L., Barker, A., Brown-Elliott, B. A., Cirillo, D. M., Harrington, S., Khare, R., Killian, S. B., Pfeltz, R., Richter, E., Rowlinson, M. C., & Zelazny, A. M. (2023). Performance Standards for Susceptibility Testing of Mycobacteria, Nocardia spp., and Other Aerobic Actinomycetes. Clinical and Laboratory Standards Institute.  
<https://clsi.org/standards/products/microbiology/documents/m24s/>



## Cellular and Molecular Biology

### CHAPTERS

Brown-Elliott, BA, & Salfinger M (2022). Antimicrobial Susceptibility Testing for Slowing Growing Nontuberculous Mycobacteria, ASM Press 7.9.2.1, doi: 10.1128/9781555818814.

Brown-Elliott, B. A., & Salfinger, M. (2023). Antimicrobial Susceptibility Testing for Slowing Growing Nontuberculous Mycobacteria. In A. L. Leber (Ed.), Clinical Microbiology Procedures Handbook, Multi-Volume (ASM Books) (5th ed., p. 3792). ASM Press.  
<https://www.wiley.com/en-us/Clinical+Microbiology+Procedures+Handbook%2C+Multi+Volume%2C+5th+Edition-p-9781683673989#content-section>

### JOURNAL PUBLICATIONS

Brown-Elliott, B. A., & Wallace, R. J., Jr (2022). In vitro susceptibility testing of eravacycline against nontuberculous mycobacteria. Antimicrobial Agents and Chemotherapy, 66(9), e0068922.  
<https://doi.org/10.1128/aac.00689-22>

Brown-Elliott, B. A., Wallace, R. J., Jr, Wengenack, N. L., Workman, S. D., Cameron, A. D. S., Bush, G., Hughes, M. D., Melton, S., Gonzalez-Ramirez, B., Rodriguez, E., Somayaji, K., Klapperich, C., Viers, M., Bolaji, A. J., Rempel, E., & Alexander, D. C. (2023). Emergence of Inducible Macrolide Resistance in Mycobacterium chelonae Due to Broad-Host-Range Plasmid and Chromosomal Variants of the Novel 23S rRNA Methylase Gene, erm(55). Journal of Clinical Microbiology, 61(7), e0042823.  
<https://doi.org/10.1128/jcm.00428-23>

Das, K., & Rao, L. V. M. (2022). The Role of microRNAs in Inflammation. International Journal of Molecular Sciences, 23(24), 15479. <https://doi.org/10.3390/ijms232415479>

# Cellular and Molecular Biology (continued)

Florova, G., De Vera, C. J., Emerine, R. L., Girard, R. A., Azghani, A. O., Sarva, K., Jacob, J., Morris, D. E., Chamiso, M., Idell, S., & Komissarov, A. A. (2023). Targeting the PAI-1 Mechanism with a Small Peptide Increases the Efficacy of Alteplase in a Rabbit Model of Chronic Empyema. *Pharmaceutics*, 15(5), 1498. <https://doi.org/10.3390/pharmaceutics15051498>

Friedland, A. E., Maziarz, E. K., Wolfe, C. R., Patel, C. B., Patel, P., Milano, C. A., Schroder, J. N., Daneshmand, M. A., Wallace, R. J., Jr, Alexander, B. D., & Baker, A. W. (2023). Epidemiology, management, and clinical outcomes of extrapulmonary Mycobacterium abscessus complex infections in heart transplant and ventricular assist device recipients. *American Journal of Transplantation: Official Journal of the American Society of Transplantation and the American Society of Transplant Surgeons*, 23(7), 1048-1057. <https://doi.org/10.1016/j.ajt.2023.04.009>

Gross, J. E., Teneback, C. C., Sweet, J. G., Caceres, S. M., Poch, K. R., Hasan, N. A., Jia, F., Epperson, L. E., Lipner, E. M., Vang, C. K., Honda, J. R., Strand, M. J., Calado Nogueira de Moura, V., Daley, C. L., Strong, M., Davidson, R. M., & Nick, J. A. (2023). Molecular Epidemiologic Investigation of Mycobacterium intracellulare Subspecies chimaera Lung Infections at an Adult Cystic Fibrosis Program. *Annals of the American Thoracic Society*, 20(5), 677-686. <https://doi.org/10.1513/AnnalsATS.202209-779OC>

Guo, X., & Qian, G. (2022). PD-L1 as a Novel Mediator of Lung Fibroblast to Myofibroblast Transition. *Journal of cellular immunology*, 4(4), 141-144. <https://doi.org/10.33696/immunology.4.142>

Guo, X., Qian, G., Adeyanju, O., Li, C., & Chen, S. (2022). other 14929: dedicator of cytokines 2 promotes atherosclerosis through mediating vascular inflammation. *Circulation*, 146(Suppl\_1). [https://doi.org/10.1161/circ.146.suppl\\_1.14929](https://doi.org/10.1161/circ.146.suppl_1.14929)

Guo, X., Cai, D., Dong, K., Li, C., Xu, Z., & Chen, S. Y. (2023). DOCK2 Deficiency Attenuates Abdominal Aortic Aneurysm Formation-Brief Report. *Arteriosclerosis, Thrombosis, and Vascular Biology*, 43(6), e210-e217. <https://doi.org/10.1161/ATVBAHA.122.318400>

Hao, Q., Kundu, S., Shetty, S., Tucker, T. A., Idell, S., & Tang, H. (2022). Inducible general knockout of Runx3 profoundly reduces pulmonary cytotoxic CD8+ T cells with minimal effect on outcomes in mice following influenza infection. *Frontiers in Immunology*, 13, 1011922. <https://doi.org/10.3389/fimmu.2022.1011922>

Jain, K. G., Zhao, R., Liu, Y., Guo, X., Yi, G., & Ji, H. L. (2022). Wnt5a/ $\beta$ -catenin axis is involved in the downregulation of AT2 lineage by PAI-1. *American Journal of Physiology: Lung Cellular and Molecular Physiology*, 323(5), L515-L524. <https://doi.org/10.1152/ajplung.00202.2022>

Jung, B. G., Dean, K., Wadle, C., Samten, B., Tripathi, D., Wallace, R. J., Jr, Brown-Elliott, B. A., Tucker, T., Idell, S., Philley, J. V., & Vankayalapati, R. (2022). Decreased Interleukin-1 Family Cytokine Production in Patients with Nontuberculous Mycobacterial Lung Disease. *Microbiology spectrum*, 10(6), e0311022. <https://doi.org/10.1128/spectrum.03110-22>

Klever, A. M., Alexander, K. A., Almeida, D., Anderson, M. Z., Ball, R. L., Beamer, G., Boggiatto, P., Buikstra, J. E., Chandler, B., Claeys, T. A., Concha, A. E., Converse, P. J., Derbyshire, K. M., Dobos, K. M., Dupnik, K. M., Endsley, J. J., Endsley, M. A., Fennelly, K., Franco-Paredes, C., Hagge, D. A., ... Robinson, R. T. (2023). The Many Hosts of Mycobacteria 9 (MHM9): A conference report. *Tuberculosis (Edinburgh, Scotland)*, 142, 102377. <https://doi.org/10.1016/j.tube.2023.102377>

Kondreddy, V., Keshava, S., Das, K., Magisetty, J., Rao, L. V. M., & Pendurthi, U. R. (2022). The Gab2-MAL1 axis regulates thromboinflammation and deep vein thrombosis. *Blood*, 140(13), 1549-1564. <https://doi.org/10.1182/blood.2022016424>

Kolli, R. T., Gunasekara, S. C., Foster, M. W., Adduri, S., Strasma, A., Wyatt, C., Konduru, N. V., De Silva, M. C. S., & Jayasundara, N. (2023). The urinary proteome infers dysregulation of mitochondrial, lysosomal, and protein reabsorption processes in chronic kidney disease of unknown etiology (CKDu). *American journal of physiology. Renal Physiology*, 324(4), F387-F403. <https://doi.org/10.1152/ajprenal.00285.2022>

Kusampudi, S., Meganathan, V., Keshava, S., & Boggaram, V. (2023). Purification and characterization of a serine protease from organic dust and elucidation of its inductive effects on lung inflammatory mediators. *American journal of physiology. Lung Cellular and Molecular Physiology*, 325(1), L74-L90. <https://doi.org/10.1152/ajplung.00309.2022>

Murillo, O., Moreira, J. D., Kujur, W., Velasco-Alzate, K., Sen Santara, S., Konduru, N. V., & Mulik, S. (2022). Costimulatory CD226 signaling regulates proliferation of memory-like NK cells in healthy individuals with latent mycobacterium tuberculosis infection. *International Journal of Molecular Sciences*, 23(21), 12838. <https://doi.org/10.3390/ijms232112838>

# Cellular and Molecular Biology (continued)

Qian G., Guo, X. (2022) DOCK2: A Potential Target for Obesity Associated Lung Injury. *J Clin Exp Pathol*. 12:416. DOI: 10.4172/2161-0681.22.12.416

Shetty, S., & Idell, S. (2023). Caveolin-1-related intervention for fibrotic lung diseases. *Cells*, 12(4), 554. <https://doi.org/10.3390/cells12040554>

Siegel, S. A. R., Griffith, D. E., Philley, J. V., Brown-Elliott, B. A., Brunton, A. E., Sullivan, P. E., Fuss, C., Strnad, L., Wallace, R. J., Jr, & Winthrop, K. L. (2023). Open-label trial of amikacin liposome inhalation suspension in mycobacterium abscessus lung disease. *Chest*, 164(4), 846-859. <https://doi.org/10.1016/j.chest.2023.05.036>

Srivastava, S., Alffenaar, J. W., & Wicha, S. G. (2023). Editorial: Pharmacology of infectious diseases: world tuberculosis day 2022. *Frontiers in Pharmacology*, 14, 1233347. <https://doi.org/10.3389/fphar.2023.1233347>

Wang, J., Keshava, S., Das, K., Kolesnick, R., Jiang, X. C., Pendurthi, U. R., & Rao, L. V. M. (2023). Alterations to sphingomyelin metabolism affect hemostasis and thrombosis. *Arteriosclerosis, Thrombosis, and Vascular Biology*, 43(1), 64-78. <https://doi.org/10.1161/ATVBAHA.122.318443>

Williamson, J., Lu, M., & Moradi, M. (2023). Integration of smFRET and molecular dynamics to characterize conformational dynamics of the spike protein of wild-type SARS-CoV-2 and its variants. *Biophysical Journal*, 122, 38a. <https://doi.org/10.1016/j.bpj.2022.11.419>

Yang, B., Mukherjee, T., Radhakrishnan, R., Paidipally, P., Ansari, D., John, S., Vankayalapati, R., Tripathi, D., & Yi, G. (2023). HIV-Differentiated metabolite n-acetyl-l-alanine dysregulates human natural killer cell responses to mycobacterium tuberculosis infection. *International Journal of Molecular Sciences*, 24(8), 7267. <https://doi.org/10.3390/ijms24087267>

## OTHER

Moradi, M., Lu, M., Vafabakhsh, R., & Heyes, C. D. (2023). An integrative approach to molecular dynamics and single molecule FRET techniques. *Biophysical Journal*, 122(3), 36a-37a. [https://www.cell.com/biophysj/pdf/S0006-3495\(22\)01328-5.pdf](https://www.cell.com/biophysj/pdf/S0006-3495(22)01328-5.pdf)

Nsiah, P., Kusampudi, S., Meganathan, V., & Boggaram, V. (2023, April 21). PPAR- $\gamma$  Regulation of Induction of Inflammatory Mediators by Organic Dust in THP-1 Macrophage Cells. [Conference session]. 2023 East Texas Research Conference. <https://www.uttyler.edu/etrc/files/etrc-2023-program-inside-pages-final-v3.pdf>

## POSTER PRESENTATIONS

Adeyemi, J., Adeyanju, O., Olajuyin, A., Mandlem, V., Idell, S., Tucker, T., Guo, X., & Qian, G. (2023, April 21). BRD4 as a Potential Target in Pleural Fibrosis. 2023 East Texas Research Conference, Tyler, TX. <https://www.uttyler.edu/etrc/files/etrc-2023-program-inside-pages-final-v3.pdf>

Ao, Y., Grover, J.R., Han, Y., Zhong, G., Qin, W., Ghimire, D., Haque, MA, Bhattacharjee, R, Zhang, B, and Arthos, J, Kwong, D.P., Lemke, E., Lu, M. (June 2023). An intact amber-free HIV-1 system for in-virus protein bioorthogonal click labeling that delineates envelope conformational dynamics. NIH/NIAID HIV Structural Biology, Natcher Conference Center, Bethesda, MD

Han, Y., Katte, R., Hong, X., Lu, M. (May 2023). HIV-1 entry stoichiometry differs across strains, distribution of surface envelope (Env) glycoprotein trimer, and inter-protomer cooperativity in Env trimer. [Poster presentation]. CSHL (Cold Spring Harbor Laboratory) Retrovirus Annual Meeting 2023, CSH, NY.

## PRESENTATIONS

Ao, Y., Grover, J.R., Han, Y., Zhong, G., Qin, W., Ghimire, D., Haque, MA, Bhattacharjee, R, Zhang, B, and Arthos, J, Kwong, D.P., Lemke, E., Lu, M. (May 2023). An intact amber-free HIV-1 system for in-virus protein bioorthogonal click labeling that delineates envelope conformational dynamics. CSHL (Cold Spring Harbor Laboratory) Retrovirus Annual Meeting 2023, CSH, NY.

Brown-Elliott, B. A. (2023, June 17). What's new in susceptibility testing for nontuberculous mycobacteria? [Conference session]. ASM Microbe 2023.

Esiesimua, B., Moreira, J. D., & Samten, B. (2023, April 1). Role of Histone Deacetylases in Regulation of Macrophage Phagocytosis of Mycobacterium. 2023 East Texas Research Conference, Tyler. Retrieved from <https://www.uttyler.edu/etrc/files/etrc-2023-program-inside-pages-final-v3.pdf>

Humphries, R., Rowlinson, M.-C., & Brown-Elliott, B. A. (2023, May 4). What's New in Susceptibility Testing of Mycobacteria. [Webinar]. CLSI & CAP Webinar. <https://clsi.org/standards/products/webinars/education/astcap23wr/>

Lu, M. (Jun 2023). Bioorthogonal click labeling of an amber-free HIV-1 provirus for in-virus single molecule imaging. [Plenary talk]. Duke Center for HIV Structural Biology Year 1 Scientific Advisory Board Review, Duke University, NC.

# Cellular and Molecular Biology (continued)

Qian, G., Adeyanju, O., Olajuyin, A., Mandlem, V., Sunil, C., Huang, S. K., Tucker, T. A., Idell, S., & Guo, X. (2023). March8 Is a Novel Regulator of Lung Myofibroblast Differentiation. *American Journal of Respiratory and Critical Care Medicine*, 207, A2205. <https://www.atsjournals.org/doi/pdf/10.1164/ajrccm-conference.2023.207.1.MeetingAbstracts.A2205>

Ranjpour, M., Emerine, R., Florova, G., Klegerman, M., Frierson, B., Sarva, K., McPherson, D., Idell, S., & Komissarov, A. (2023). Novel Echogenic Liposomal Carriers Loaded With Tissue Plasminogen Activator and Urokinase Plasminogen Activator for Preclinical Studies. *American Journal of Respiratory and Critical Care Medicine*, 207, A2268.

Ranjpour, M., Mustafa, D. B., Emerine, R., Florova, G., Idell, S., Chou, S., & Komissarov, A. (2023). Plasminogen Activators Encapsulated Into Microfiber Carriers to Deliver and Support Sustainable Plasminogen Activation. *American Journal of Respiratory and Critical Care Medicine*, 207, A2269.

Sakai, T., Choo, Y., Ikebe, R., Jeffers, A., Idell, S., Tucke, T. A., & Ikebe, M. (2023). Role of Myocardin on the Expression of Fibronectin 1 in Human Pleural Mesothelial Cells. *American Journal of Respiratory and Critical Care Medicine*, 207, A2230. <https://www.atsjournals.org/doi/pdf/10.1164/ajrccm-conference.2023.207.1.MeetingAbstracts.A2230>

Yao, B., Sarva, K., Florova, G., Hibbard, R., Devine, M., Philley, J., Idell, S., McPherson, D. D., & Komissarov, A. A. (2023). Fibrinolysis and Inflammation in Convalescent Plasma Treated COVID-19 Patients. *American Journal of Respiratory and Critical Care Medicine*, 207, A6279. <https://www.atsjournals.org/doi/pdf/10.1164/ajrccm-conference.2023.207.1.MeetingAbstracts.A6279>

## GRANTS

Elliott, B. A. Phase 2 SPR720-202 Study, Spero Therapeutics (December 1, 2022), USD \$2,500.

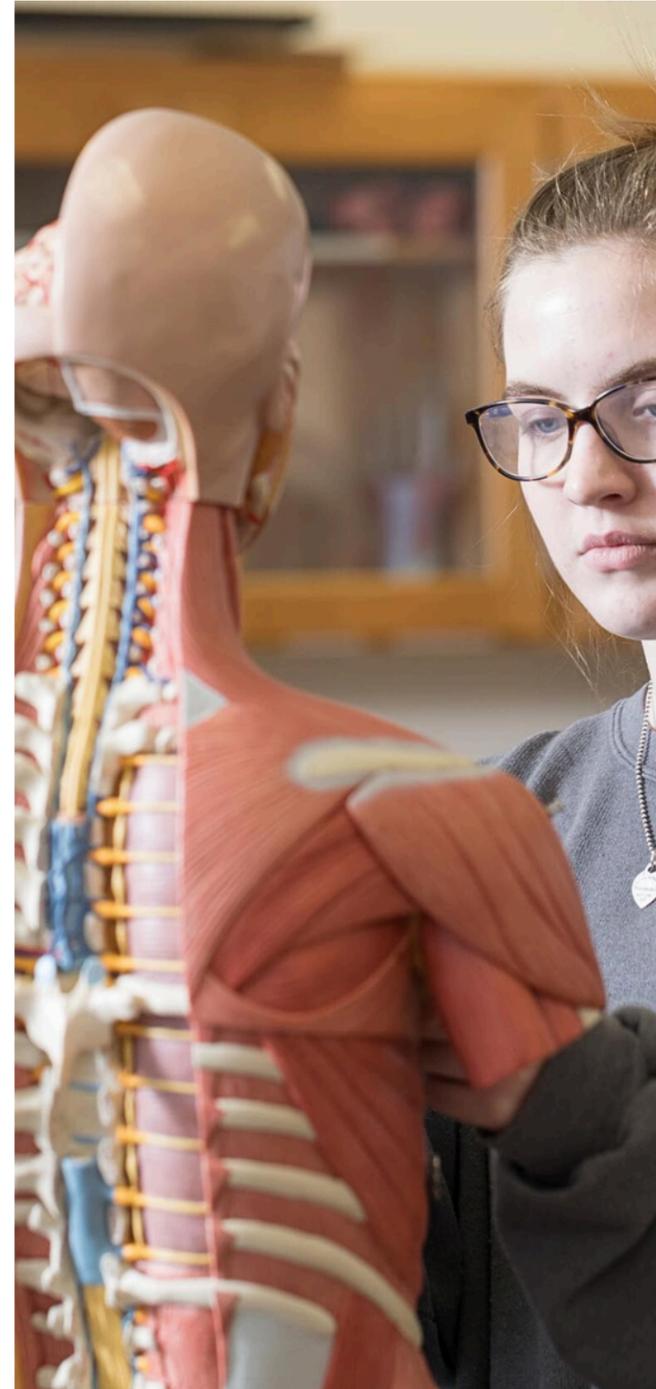
Honda, J.R. Distinct responses of lung macrophages and airway epithelial cells to Hawai'i-derived volcanic ash and nontuberculous mycobacteria, National Institutes of Health (NIH) (March 22, 2023), USD \$221,999.

Lu, M. Conformational events and allostery underlying Env antagonism, Duke Center for HIV Structural Bio (DCHSB) (December 1, 2022), USD \$174,999.

Qian, G. Deducator of cytokinesis 2 in Pleural Fibrosis, National Institutes of Health (NIH) (September 15, 2022), USD \$362,800.

Shetty, S. Regulation of Silica-induced Lung Injury by Plasminogen Activator Inhibitor-1, National Institutes of Health (NIH) (September 20, 2022), USD \$203,314.

Yao, B. (PI), Lee, J. (Co-PI). Contribution of neutrophil elastase activity into COVID-19 associated coagulopathy, University of Texas at Tyler (September 1, 2022), USD \$33,000.



# Epidemiology and Biostatistics

## JOURNAL PUBLICATIONS

Adduri, R. S. R., Cai, K., Velasco-Alzate, K., Vasireddy, R., Miller, J. W., de Frías, S. P., de Frías, F. P., Horimasu, Y., Iwamoto, H., Hattori, N., Zhang, Y., Gibson, K. F., Pal, A. K., Chen, Z., Nicastró, D., Li, L., Cherian, S., Sholl, L. M., Shetty, S., ... Konduru, N. V. (2023). Plasma extracellular vesicle proteins as promising noninvasive biomarkers for diagnosis of idiopathic pulmonary fibrosis. *Journal of Extracellular Biology*, 2(7). <https://doi.org/10.1002/jex2.98>

Le, T. D., Cook, A. D., Le, T. T., Keyloun, J. W., Detwiler, P. W., Ledlow, G. R., Pusateri, A. E., & Singh, K. P. (2022). Trends in Traumatic Brain Injury Related to Consumer Products Among U.S. School-aged Children Between 2000 and 2019. *American journal of preventive medicine*, 63(4), 469-477. <https://doi.org/10.1016/j.amepre.2022.04.011>

Le, T. D., Gurney, J. M., Singh, K. P., Nessen, S. C., Schneider, A. L. C., Agimi, Y., Bebarata, V. S., Herson, P. S., Stout, K. C., Cardin, S., Crowder, A. T., Ling, G. S. F., Stackle, M. E., & Pusateri, A. E. (2023). Trends in Traumatic Brain Injury Among U.S. Service Members Deployed in Iraq and Afghanistan, 2002-2016. *American journal of preventive medicine*, 65(2), 230-238. <https://doi.org/10.1016/j.amepre.2023.01.043>

Leach, R. A., Ndetan, H., King, J. A., & Evans, M. W., Jr (2022). COVID-19 Infectious Disease Prevention and Mitigation Practices by Chiropractic Physicians and Licensed Massage Therapists in Mississippi: A Needs Assessment to Inform Health Education and Promotion. *Journal of chiropractic medicine*, 21(4), 233-240. <https://doi.org/10.1016/j.jcm.2022.02.016>

Murillo, O., Moreira, J. D., Kujur, W., Velasco-Alzate, K., Sen Santara, S., Konduru, N. V., & Mulik, S. (2022). Costimulatory CD226 signaling regulates proliferation of memory-like NK cells in healthy individuals with latent mycobacterium tuberculosis infection. *International Journal of Molecular Sciences*, 23(21), 12838. <https://doi.org/10.3390/ijms232112838>

Tabatabai, M. A., Bahri, N., Matthews-Juarez, P., Alcendor, D., Cooper, R., Juarez, P., Ramesh, A., Tabatabai, N., Singh, K. P., & Wilus, D. (2023). The role of histological subtypes in the survival of patients diagnosed with cutaneous or mucosal melanoma in the United States of America. *PloS one*, 18(6), e0286538. <https://doi.org/10.1371/journal.pone.0286538>

Tabatabai, M., Cooper, R. L., Wilus, D. M., Edgerton, R. D., Ramesh, A., MacMaster, S. A., Patel, P. N., & Singh, K. P. (2023). The effect of naloxone access laws on fatal synthetic opioid overdose fatality rates. *Journal of Primary Care & Community Health*, 14. <https://doi.org/10.1177/21501319221147246>

Tabatabai, M., Juarez, P. D., Matthews-Juarez, P., Wilus, D. M., Ramesh, A., Alcendor, D. J., Tabatabai, N., & Singh, K. P. (2023). An analysis of COVID-19 mortality during the dominance of alpha, delta, and omicron in the USA. *Journal of Primary Care & Community Health*, 14. <https://doi.org/10.1177/21501319231170164>

Tabatabai, M. A., Matthews-Juarez, P., Bahri, N., Cooper, R., Alcendor, D., Ramesh, A., Wilus, D., Singh, K., & Juarez, P. (2023). The role of patient-centered communication scale in patients' satisfaction of healthcare providers before and during the COVID-19 pandemic. *Patient Experience Journal*, 10(2), 113-123. <https://doi.org/10.35680/2372-0247.1784>

Tripathi, D., Devalraju, K. P., Neela, V. S. K., Mukherjee, T., Paidipally, P., Radhakrishnan, R. K., Dozmorov, I., Vankayalapati, A., Ansari, M. S., Mallidi, V., Bogam, A. K., Singh, K. P., Samten, B., Valluri, V. L., & Vankayalapati, R. (2022). Metabolites enhance innate resistance to human Mycobacterium tuberculosis infection. *JCI insight*, 7(22), e152357. <https://doi.org/10.1172/jci.insight.152357>

Yang, B., Mukherjee, T., Radhakrishnan, R., Paidipally, P., Ansari, D., John, S., Vankayalapati, R., Tripathi, D., & Yi, G. (2023). HIV-Differentiated metabolite n-acetyl-l-alanine dysregulates human natural killer cell responses to mycobacterium tuberculosis infection. *International Journal of Molecular Sciences*, 24(8), 7267. <https://doi.org/10.3390/ijms24087267>

## OTHER

Singh, K. P. (2022, December 8). Community-based cancer screening: The lessons learned. Department of Pathology Research other [Frederick P. Whiddon College of Medicine].

Singh, K. P. (2023, February 16). Building Bridges Between Public Health and Community Health. Center of Social Medicine and Community Health, Jawaharlal Nehru University Guest Lecture.

## POSTER PRESENTATIONS

Davis, T., Orsi, C., Wadle, C., Cook, A., Ismael, H. (2023, May). Disparities in Timeliness of Breast Cancer Treatment in a Rural Setting. UT Tyler Research Day.

Flinn A, K. B. P., Rauschendorfer C, Le T, Rizzo J. (15 May 2023). Inhalation injury severity score on admission predicts overall survival in burn ICU patients. American Burn Association Annual Meeting, Dallas, TX. DOI: 10.1093/jbcr/irad045.248

Flores-Banda, J., Martino, J., Chowdhury, O., Olusola, B., Wadle, C., & Swindall, R. (2023, May). Assessing the Associated Risk of Colorectal Cancer and High-Risk Polyps: Number of Days from Positive FIT to Diagnostic Colonoscopy. UT Tyler Research Day.

# Epidemiology and Biostatistics (continued)

Kensing, B., Barghuthi, L., Wadle, C., Swindall, R., Ismael, H. (2023, May). Breast Cancer Treatment Disparities in a Rural Setting: Breast Conserving Surgery versus Mastectomy. UT Tyler Research Day.

Terada, R., Hassanin E., Alvarado, C., Wadle, C., Swindall, R., Cook, A., Devine, M., Philley, J. (2023, May). Institutional Experience with Acalabrutinib to Treat Severe COVID-19. UT Tyler Research Day.

## PRESENTATIONS

Alvarado, C. R., Escareno-Alvarado, J. M., McGaha, P., & Singh, K. (2023, May 22). Elevated Liver Cancer Incidence among Hispanic Americans in Northeast Texas. Texas Public Health Association Annual Meeting San Antonio, TX. [https://cdn.ymaws.com/www.texaspha.org/resource/resmgr/docs/annual\\_conference/2023\\_aec/tpha\\_confere\\_nce\\_program\\_fina.pdf](https://cdn.ymaws.com/www.texaspha.org/resource/resmgr/docs/annual_conference/2023_aec/tpha_confere_nce_program_fina.pdf)

Aristide, D., David, E., & Ndetan, H. (2022, November 9). COVID-19 risk perception and vaccination behavior among rural college students. APHA 2022 Annual Meeting and Exposition.

Ford, R., Ewer, N., Gunville, R., Abravanel, M., Hoareau, G., Youngquist, S., Johnson, A., Hogen, T., Edwards, T., Le, T. D., & Venn, E. (2023, January). Evaluation of shelf-stable blood products for resuscitation in a canine model of hemorrhagic shock. Society of Critical Care Medicine (SCCM) 2023 Critical Care Congress.

Le, T. D. (2023, March 24). Traumatic Brain Injury Among U.S. Service Members in the War Zones-Enduring Material. UT Tyler School of Medicine other.

Singh, K. P. (2023, July 18). Survey Development for Comprehensive Community Needs Assessment (CCNA) for the City of Tyler, TX. East Texas Human Needs Network (ETHNN) CCNA other.

Yang, Z., Le, T. D., Simovic, M. O., Liu, B., Fracker, T. L., Cancio, T. S., Rizzo, J. A., Cancio, L. C., Cap, A. P., Wade, C. E., & Li, Y. (2022, September 14). Triad of complementopathy, endotheliopathy and coagulopathy - impact on clinical outcomes in severely injured trauma patients. 2023 Military Health System Research other.



## PROCEEDINGS PUBLICATIONS

Bae, S., Pandya, V., Park, H., Wang, Z., Wang, C., Wang, H., Uhm, M., Huh, W., & Singh, K. P. (2023, July 9). Impact of distance to travel in cervical cancer outcome: National Cancer Database Study. MODSIM2023. 25th International Congress on Modelling and Simulation. <https://doi.org/10.36334/modsim.2023.bae>

Le, T. D., Cook, A., Keyloun, J. W., Ledlow, G., Pusateri, A. E., Uhm, M., Bae, S., & Singh, K. P. (2023, July 9). Trends in brain injury among United States female students linked to consumer products. MODSIM2023. 25th International Congress on Modelling and Simulation. <https://doi.org/10.36334/modsim.2023.le254>

## GRANTS

Ndetan, H.T. Anderson and Cherokee Counties Opioid Response, US Dept of Health & Human Services (DHHS) (September 1, 2022), USD \$1,000,000.

# Family Medicine

## JOURNAL PUBLICATIONS

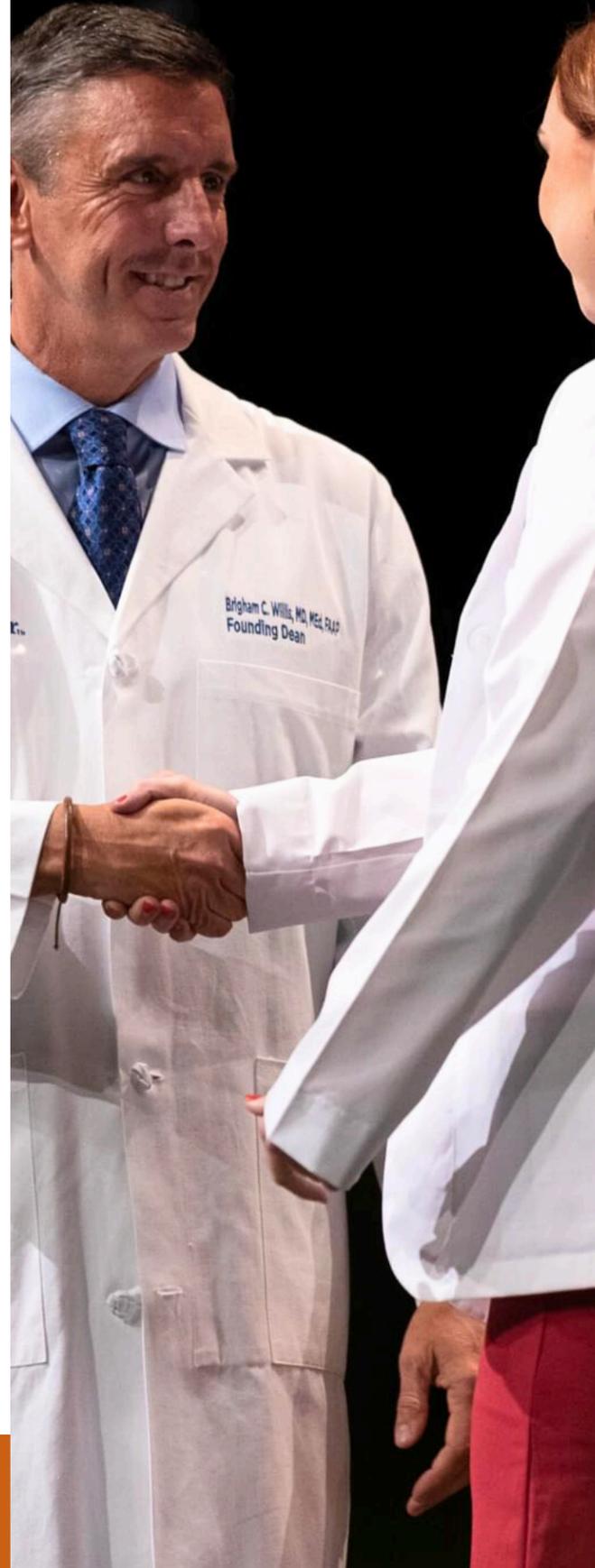
Burnett, I., Franklin, G., & Pippin, P. (2022). Is a shave biopsy inferior to excisional biopsy in the initial diagnosis of suspected melanoma? Evidence-Based Practice, 25(9), 22-23. <https://doi.org/10.1097/EBP.0000000000001670>

Cage, A., Trail, L., Galbraith, R., Cox, C., & Warner, B. (2023). Effect of Cupping Therapy on Muscle Tenderness in Collegiate Baseball Players Compared to Sham Treatment: A Randomized, Single-Blinded Trial. Journal of Sports Medicine and Allied Health Sciences: Official Journal of the Ohio Athletic Trainers Association, 8(4), Article 1. <https://doi.org/10.25035/jsmahs.08.04.01>

Chou, E., Curet, M. C., & Tran, M.-H. (2023). Does horse chestnut relieve swelling in patients with venous insufficiency? Evidence-Based Practice, 26(8), 14-15. <https://doi.org/10.1097/EBP.0000000000001705>

## GRANTS

Etim, K.S. Family Medicine (FM) Rural Training Track (RTT) program for UT Health Jacksonville, Temple Foundation (October 1, 2022), USD \$200,000.



## Internal Medicine

### JOURNAL PUBLICATIONS

Ascher, S. B., de Lemos, J. A., Lee, M., Wu, E., Soliman, E. Z., Neeland, I. J., Kitzman, D. W., Ballantyne, C. M., Nambi, V., Killeen, A. A., Ix, J. H., Shlipak, M. G., & Berry, J. D. (2022). Intensive blood pressure lowering in patients with malignant left ventricular hypertrophy. *Journal of the American College of Cardiology*, 80(16), 1516-1525. <https://doi.org/10.1016/j.jacc.2022.08.735>

Berry, J. D., Chen, H., Nambi, V., Ambrosius, W. T., Ascher, S. B., Shlipak, M. G., Ix, J. H., Gupta, R., Killeen, A., Toto, R. D., Kitzman, D. W., Ballantyne, C. M., & de Lemos, J. A. (2023). Effect of intensive blood pressure control on troponin and natriuretic peptide levels: findings from SPRINT. *Circulation*, 147(4), 310-323. <https://doi.org/10.1161/CIRCULATIONAHA.122.059960>

de Lemos, J. A., & Berry, J. D. (2023). Comparisons of multiple troponin assays for detecting chronic myocardial injury in the general population: redundant or complementary? *European Heart Journal*, 44(28), 2606-2608. <https://doi.org/10.1093/eurheartj/ehad414>

Gonzalez, K., Thomas, J., Givler, J., & Stockton, L. (2023). Sweet syndrome and erythema nodosum in a young patient with ulcerative colitis. *Baylor University Medical Center Proceedings*, 36(3), 392-394. <https://doi.org/10.1080/08998280.2023.2167050>

Le, M. D., Wu, Y., Berry, J. D., Browning, J. D., de Lemos, J. A., Neeland, I. J., & Lingvay, I. (2023). Associations of liver fat content with cardiometabolic phenotypes and outcomes in a multi-ethnic population: results from the Dallas Heart Study. *Diabetes, Obesity and Metabolism*, 25(2), 586-595. <https://doi.org/10.1111/dom.14905>

Qazi, M. S., Shastid, S. L., & Nwasuruba, C. (2023). A case of newly diagnosed essential thrombocythosis presenting as nstemi. *Journal of the American College of Cardiology*, 81(8), 3607. [https://doi.org/10.1016/S0735-1097\(23\)04051-2](https://doi.org/10.1016/S0735-1097(23)04051-2)

Reynolds, E., Curry, K., Barton, G., Chandra, A., Crandall, C. G., & Berry, J. D. (2023). Impact of the insoluble gas concentration on measured stroke volume at rest and submaximal exercise using the Innocor device. *Medicine & Science in Sports & Exercise*, 55(3), 601-606. <https://doi.org/10.1249/MSS.0000000000003073>

Saha, A., Patel, K. V., Ayers, C., Ballantyne, C. M., Correa, A., Defilippi, C., Hall, M. E., Mentz, R. J., Seliger, S. L., Yimer, W., Butler, J., Berry, J. D., De Lemos, J. A., & Pandey, A. (2023). Longitudinal changes in cardiac troponin and risk of heart failure among black adults. *Journal of Cardiac Failure*, 29(1), 6-15. <https://doi.org/10.1016/j.cardfail.2022.05.013>

## Internal Medicine (continued)

Singh, K. P., Carvalho, A. C. C., Centis, R., D'Ambrosio, L., Migliori, G. B., Mpagama, S. G., Nguyen, B. C., Aarnoutse, R. E., Aleksa, A., van Altena, R., Bhavani, P. K., Bolhuis, M. S., Borisov, S., van T'Bovenind-Vrubleuskaya, N., Bruchfeld, J., Caminero, J. A., Carvalho, I., Cho, J. G., Davies-Forsman, L., Dedicoat, M., ... Denholm, J. T. (2023). Clinical standards for the management of adverse effects during treatment for TB. *The international journal of tuberculosis and lung disease : the official journal of the International Union against Tuberculosis and Lung Disease*, 27(7), 506-519. <https://doi.org/10.5588/ijtld.23.0078>

Wang, T. Y., Wahed, A. S., Morris, A., Kreuziger, L. B., Quigley, J. G., Lamas, G. A., Weissman, A. J., Lopez-Sendon, J., Knudson, M. M., Siegal, D. M., Kasthuri, R. S., Alexander, A. J., Wahid, L., Atassi, B., Miller, P. J., Lawson, J. W., Patel, B., Krishnan, J. A., Shapiro, N. L., Martin, D. E., ... ACTIV-4C Study Group (2023). Effect of thromboprophylaxis on clinical outcomes after COVID-19 hospitalization. *Annals of Internal Medicine*, 176(4), 515-523. <https://doi.org/10.7326/M22-3350>

### POSTER PRESENTATIONS

Shankar, P., Boorgula, G. D., Singh, S., Vogensen, V. B., & Srivastava, S. (2023, June 17). Imipenem Instability in Solution and Potential Effect on Mycobacterium abscessus MIC Determination. *ASM Microbe 2023*. <https://www.othersonline.com/pp8/#!/10789/presentation/5629>

Srivastava, S. (2023, May). Sarecycline Pharmacokinetics-pharmacodynamics in the Hollow Fiber Model of M. avium Complex. *American Thoracic Society 2023 International Conference*.

Srivastava, S., Singh, S., Shankar, P., Boorgula, G., Thomas, T. A., & Aryal, S. (2023, June 16). Meropenem-Vaborbactam Restores the Efficacy of First-Line Drugs' against MDR-TB. *ASM ASM Microbe 2023*. <https://www.othersonline.com/pp8/#!/10789/presentation/2873>

### PRESENTATIONS

Boorgula, G., & Srivastava, S. (2023, April 21). Optimizing Drug Susceptibility Testing for Mycobacterium abscessus. *2023 East Texas Research Conference, Tyler, TX*. <https://www.uttyler.edu/etrc/files/etrc-2023-program-inside-pages-final-v3.pdf> S

Srivastava, S. Omadacycline optimal dose efficacy for treatment of pulmonary Mycobacterium abscessus disease., *TB-CRE 1st Pharmacology other: PK/PD*. Sydney Institute for Infectious Diseases (Sydney ID), Sydney School of Pharmacy, The University of Sydney, NSW, Australia.

Vogensen, V. B., & Srivastava, S. (2023, April 21). Imipenem-relebactam with potential to restore the efficacy of first-line drugs and develop combination regimens to treat drug-resistant tuberculosis. *2023 East Texas Research Conference, Tyler, TX*. <https://www.uttyler.edu/etrc/files/etrc-2023-program-inside-pages-final-v3.pdf>

### GRANTS

Berry, J.D. Characterization of Mechanisms of Exercise Intolerance in Patients at Risk for Heart Failure with Preserved Ejection Fraction, *National Institutes of Health (NIH)* (March 6, 2023), USD \$114,300.

Seaworth, B.J., Tuberculosis Prevention and Control, *Texas Dept of State Health Services (TDSHS)* (January 18, 2023), USD \$800,000.

## Medical Education

### JOURNAL PUBLICATIONS

Allen, A. J., White, A. B., Bacon, D. R., Beck-Dallaghan, G. L., & Jordan, S. G. (2023). Commentary on ultrasound instruction in undergraduate medical education: perspective from two students. *Advances in Medical Education and Practice*, 14, 1-7. <https://doi.org/10.2147/AMEP.S388044>

Alexander, B. L., Janssen, J., Fraser, A. M., Bryce, C. I., & Fabes, R. A. (2022). A multimethod examination of hope and adolescent STEM career expectancies. *Journal of Adolescence*, 94(8), 1163-1178. <https://doi.org/10.1002/jad.12094>

Alexandraki, I., Baker, R., Kern, A., Beck-Dallaghan, G. L., & Seegmiller, J. (2023). Faculty development for community preceptors: a narrative review of the literature. *Journal of General Internal Medicine*, 38(6), 1501-1515. <https://doi.org/10.1007/s11606-023-08026-5>

Beck-Dallaghan, G. L., Wright, S. T., Plant, J., Butani, L., & Morgenstern, B. Z. (2023). Educational relative value units as a measure of academic productivity: a systematic review. *Cureus*, 15(4), e36995. <https://doi.org/10.7759/cureus.36995>

Bryce, C. I., & Fraser, A. M. (2022). Students' perceptions, educational challenges and hope during the COVID-19 pandemic. *Child: Care, Health and Development*, 48(6), 1081-1093. <https://doi.org/10.1111/cch.13036>

## Medical Education (continued)

Bryce, C. I., McLean, L., Granger, K. L., \*Espinoza, P., & Fraser, A. M. (2022). Preliminary investigation of teachers' emotional exhaustion, teaching efficacy, hope, and colleague support during the COVID-19 pandemic. *European Journal of Psychology and Educational Research*, 5(2), 115-126. <https://doi.org/10.12973/ejper.5.2.115>

Bryce, C. I. & Fraser, A. M. (2023). Hope, context, and equity: Existing shortcomings and implications for future research on hope in children. *Child Indicators Research*, 16, 1971-1985. <https://doi.org/10.1007/s12187-023-10052-y>

Deva, M., Beck Dallaghan, G. L., Howard, N., & Roman, B. J. B. (2023). Faculty bridging individual and organizational resilience: Results of a qualitative analysis. *Medical Education Online*, 28(1), 2184744. <https://doi.org/10.1080/10872981.2023.2184744>

Gustafson, C. E., Johnson, C. J., Beck Dallaghan, G. L., Knight, O. J., Malloy, K. M., Nichols, K. R., & Rahangdale, L. (2023). Evaluating situational judgment test use and diversity in admissions at a southern US medical school. *PloS One*, 18(2), e0280205. <https://doi.org/10.1371/journal.pone.0280205>

Iwai, Y., Brizuela, K. M., Ruiz, J., Gustafson, E., Kuczewski, M. G., & Beck Dallaghan, G. L. (2023). Supporting DACA recipients and international students pursuing careers in medicine: A pilot program for advisors. *PloS One*, 18(2), e0281540. <https://doi.org/10.1371/journal.pone.0281540>

Kattel, P., Sulthana, S., Trousil, J., Shrestha, D., Pearson, D., & Aryal, S. (2023). Effect of nanoparticle weight on the cellular uptake and drug delivery potential of PLGA nanoparticles. *ACS Omega*, 8(30), 27146-27155. <https://doi.org/10.1021/acsomega.3c02273>

Nevins, A. B., Boscardin, C. K., Kahn, D., May, W., Murdock-Vlautin, T., Pau, C. Y., Phillips, A., Racataian-Gavan, R., Shankel, T., Wilkerson, L., Wray, A., & Charat, S. (2022). A Call to Action From the California Consortium for the Assessment of Clinical Competence: Making the Case for Regional Collaboration. *Academic medicine : journal of the Association of American Medical Colleges*, 97(9), 1289-1294. <https://doi.org/10.1097/ACM.0000000000004663>

Rao, P., Jordan, K., Burrows, H., Helms, L., Latch, R., Perin, R., Crawford, M. A., Kang, D., Morgan, A., Beck Dallaghan, G. L., & Zwemer, E. (2023). Association between in-training exam scores and clinical exposure during the Covid-19 pandemic. *Academic Pediatrics*, (23)1. <https://doi.org/10.1016/j.acap.2023.05.014>

Tiruneh, Y. M., Elliott, K. S., Oyer, L., Elueze, E., & Casanova, V. (2022). Addressing substance use and misuse in East Texas: Stakeholder-driven needs and priorities. *International Journal of Environmental Research and Public Health*, 19(22), 15215. <https://doi.org/10.3390/ijerph192215215>

Wadhwa, S., Yoon, A. J., Kister, K., Bolin, I., Chintalapudi, N., Besmer, I., Cantos, A., Shah, J., Gaitonde, S. K., Granger, S. W., Bryce, C. I., Fischer, R., Eisig, S. B., Yin, M. T. (2023). Detection of SARS-CoV-2 IgG antibodies and inflammatory cytokines in saliva-a pilot study. *Journal of Oral Biology and Craniofacial Research*, 13(2), 267-271. <https://doi.org/10.1016/j.jobocr.2023.02.008>

Wyatt, T.R., Bullock, J.L., Andon, A., Odukoya, E.J., Torres, C.G., Gingell, G., Han, H., Zaidi, Z., Mylona, E., Torre, D., Cianciolo, A. (2023). Editors as Gatekeepers: One Medical Education Journal's Efforts to Resist Racism in Scholarly Publishing. [Research Report]. *Academic Medicine* 98(12): p 1406-1412. DOI: 10.1097/ACM.0000000000005303

### OTHER

Cooley, A. (2023, February 7). How Innovation in Education Can Bring Medicine and the System Back Together. *Harvard Macy Institute Blog*. <https://harvardmacy.org/blog/medicine-and-the-system>

### POSTER PRESENTATIONS

Coe, C., & Beck Dallaghan, G. (2023, June 11). How Do We Know This Works? Applying Realistic Evaluation Frameworks in Program Evaluation [Poster presentation]. *IAMSE 2023 Annual Conference*, Cancun, Mexico.

Cooley, A. C. (2023, April 4). Stop and ADAPT: Building an Encapsulation Framework for Adaptive Expertise [Poster presentation]. *Harvard Macy Institute Program for Educators in Health Professions*.

Creel, A., Wang, H., Peltier, C., Jackson, J., Khidir, A., Nagpal, N., Kind, T., Beck Dallaghan, G., & Vercio, C. (2022, September 9). Sense of Belonging in Senior Medical Students and Effects on Learning [Poster presentation]. *2022 other for Innovation in Medical Education*, University of California San Diego, La Jolla, CA. <https://vimeo.com/750557641/23a6933a6f>

Creel, A., Kind, T., Nagpal, N., Peltier, C., Jackson, J., Khidir, A., Paul, C., Beck Dallaghan, G., Vercio, C., & Wang, H. (2023, April 4). "I'll Be in There With You": Investing in Learning by Supporting Belonging [Poster presentation]. *2023 Council on Medical Student Education in Pediatrics meeting*, Long Beach, CA.

## Medical Education (continued)

De La Rosa, K., Vercio, C., Green, M., Beck Dallaghan, G. L., Paul, C., Mills, W., Moquin, R., Lu, Y., & Hanson, J. (2023, April 28). A Qualitative Study of Medical Students' Experiences in Disruptive Social Contexts in Relation to Their Emerging Professional Identity [Poster presentation]. *Pediatric Academic Societies (PAS) Annual Meeting 2023*, Washington, DC.

Jordan, K. A., Rao, P., Helms, L., Burrows, H., Latch, R., Perin, R., Morgan, A. P., Kang, D., Crawford, M. A., Beck Dallaghan, G. L., & Zwemer, E. (2023, March 30). Association between ITE Scores and Clinical Exposure During the COVID-19 Pandemic. [Poster presentation]. *2023 Association of Pediatric Program Directors meeting*, Atlanta, GA.

Levin, J., Jones, K., Elkowitz, D., Cox, S., McGaha, P., Ball, C., Ledlow, G., Elueze, E., & Willis, B. (2022, December 5). Implementing a Population Health and System Science Course into a New Medical School Curriculum in Rural Northeast Texas [Poster presentation]. *AMA Health Systems Science Summit*.

Tuvdendorj, D., Lucchesi, P., & Jones, K. (2022, December 5). Designing a Longitudinal "Future Physician-Scholars" Course at a Community-Based Medical School [Poster presentation]. *2022 IAMSE Virtual Conference*, Huntington, WV.

Tuvdendorj, D. R., Beck Dallaghan, G., Lucchesi, P., McKinney, K. H., & Jones, K. (2023, March 23). A Dietician-led Lifestyle Change Intervention Program - Transferring an Experience from One Institute to Another, and Double Benefit [Poster presentation]. *2023 Association of American Medical Colleges Southern Group on Educational Affairs meeting*, Nashville, TN.

Vercio, C., De La Rosa, K., Green, M., Beck Dallaghan, G., Paul, C., Mills, W., Moquin, R., Lu, Y., & Hanson, J. (2023, April 3). How Do Medical Students Describe Their Experiences in Rapidly Changing or Disruptive Social Contexts in Relation to Their Emerging Professional Identity? [Poster presentation]. *2023 Council on Medical Student Education in Pediatrics Annual Meeting*, Long Beach, CA.

Wang, H., Creel, A., Peltier, C., Jackson, J., Khidir, A., Nagpal, N., Vercio, C., Beck Dallaghan, G., & Kind, T. (2022, September 9). Contributors and Detractors to Senior Medical Students' Sense of Belonging on Clinical Rotations [Poster presentation]. *2022 other for Innovation in Medical Education*, University of California San Diego, La Jolla, CA, La Jolla, CA. <https://www.rchsd.org/documents/2022/09/other-for-innovation-in-medical-education-2022-poster-session-room-a.pdf/>

Wang, H., Creel, A., Peltier, C., Jackson, J., Khidir, A., Nagpal, N., Kind, T., Beck Dallaghan, G., & Vercio, C. (2022, September 9). Exploring Sense of Belonging in Professional Identity Formation [Poster presentation]. *2022 other for Innovation in Medical Education*, University of California San Diego, La Jolla, CA.

Wang, H., Vercio, C., Nagpal, N., Peltier, C., Jackson, J., Khidir, A., Paul, C., Beck Dallaghan, G., Kind, T., & Creel, A. (2023, March 29). The Role of Residents in Supporting Medical Students' Sense of Belonging [Poster presentation]. *APPD 2023 Annual Spring Meeting*, Atlanta, GA.

Wang, H., Vercio, C., Nagpal, N., Peltier, C., Jackson, J., Khidir, A., Paul, C., Beck Dallaghan, G., Kind, T., & Creel, A. (2023, April 4). The Role of Residents in Supporting Medical Students' Sense of Belonging [Poster presentation]. *2023 Council on Medical Student Education in Pediatrics meeting*, Long Beach, CA.



# Medical Education (continued)

## PRESENTATIONS

Anderson, W., Mylona, E., Lipscomb, W., & Ford, S. (2022, November 10). Socializing New Minority Faculty During the COVID Pandemic. [Conference session]. The Generalists in Medical Education 43rd Annual Conference, Nashville, TN. <https://thegeneralists.org/wp-content/uploads/2022/10/2022ProgramC.pdf>

Beck Dallaghan, G., & Jones, K. (2023, March 3). So, How Do You Know This Works? Applying Realistic Evaluation Frameworks in Program Evaluation [Conference session]. 2023 Innovations in Health Science Education Annual Conference: Diversity, Collaboration, and Opportunities in Current Health Science Education, UT System Shine Academy Virtual Annual Conference.

Beck Dallaghan, G. L. (2023, June 11). Welcome to the Virtual World: Exploring Scholarship of Digital Activities [Conference session]. WCM-Q other.

Beck Dallaghan, G. L. (2023, August 10). Finding Opportunities in Qualitative Research: A View from 10,000 Feet [Conference session]. University of Nebraska/Children's Omaha Pediatric Hospital Medicine Fellowship.

Bullock, J., Cianciolo, A., Gingell, G., Andon, A., Han, H., Torres, C., Odukoya, E.M., Torre, D., Zaidi, Z., Wyatt, T. (2022). The Praxis in Anti-Racism Efforts: A Collaborative Autoethnography of an Academic Publishing Mentorship Program [Conference session]. Association of American Medical Colleges, Learn Serve Lead, Nashville, TN.

Coe, C. L., Jones, K., & Beck Dallaghan, G. (2023, March 25). How Do We Know This Works? Applying Realistic Evaluation Frameworks to Program Evaluation. 2023 SGEA Annual Conference.

Cooley, A. C. (2023, May 4). Development and Implementation of an Embedded Clinical Assessment Team in Medical Education [Conference session]. AMA Change MedEd 2023.

Gavan, R., Lewis, K. (2023, March 3-4). Assessing medical student clinical competence: Time for a UT consortium [Roundtable Discussion]. SHINE Virtual 2023 Innovations in Health Science Annual Conference, United States.

Gavan, R., Lewis, K. (2023, March 22-25). Building a regional consortium for the assessment of medical student competence: A simulated immersive experience [Workshop]. Southern Group on Educational Affairs Conference, Nashville, TN, United States.

Gonzalez, V., Parlar-Chun, R., Schwartz, A., Beck Dallaghan, G., Lahoti, S., Kuzma, N., Montano, K., & Pomeroy, B. (2023, April 3). Predictors of Success: From Medical Student to Pediatric Resident [Conference session]. COMSEP 2023 Annual Meeting, Long Beach, CA.

Gonzalez, V., Parlar-Chun, R., Schwartz, A., Beck Dallaghan, G., Lahoti, S., Kuzma, N., & Montano, K. (2023, April 29). Predicting Performance of Early ACGME Milestone Ratings and In-Training Exam Performance from Various Undergraduate Medical Education Components [Conference session]. Pediatric Academic Society (PAS) 2023, Washington, DC.

Harris, A., Lamba, S., Mylona, E., Phelan, M.B., Ogunyemi, D., Buenoconsejo-Lum, L. (2023). Bridging Allyship Gaps: Engaging Those Missing for Racial Literacy and Upstander Training. [Conference session]. Association of American Medical Colleges, Group of Faculty Affairs, (GDI/GFA Join Professional Development Conference, Indian Wells, CA.

Jones, K. (2022, November 12). Creating an Educational Environment and Culture at a New Medical School that Supports Medical Students as Adult Learners with a Growth Mindset [Conference session]. 2022 Learn Serve Lead: The AAMC Annual Meeting.

Lewis, K., Hopkins, H., Smith, C., Webster, T., Yelen, M. (2022, December 12). ASPE SOBP version 2.0: What does the next iteration look like? [Webinar presentation]. Association of SP Educators. <https://www.youtube.com/watch?v=T165XpdJSjQ>

Lewis, K., Yelen, M. (2023, June 4-7). Seeking input on the 2017 ASPE Standards of Best Practice. [Workshop]. Association of SP Educators Annual Conference, Portland, OR, United States.

Mylona, E., Borges, N., Dallaghan, G. B., & Huggett, K. (2022, November 11). Recruitment, Retention, and Advancement of Medical Educators: Strategies and Envisioning a Path Forward [Conference session]. Learn Serve Lead 2022: The Association of American Medical Colleges (AAMC) Annual Meeting.

Mylona, E., Anthony, E., Federico-Martinez, G., Pellegrini, V., Williams, V. (2023). Plenary II: Mergers and Acquisitions and their Effects on Faculty Affairs and DEI Issues. Association of American Medical Colleges, Group of Faculty Affairs, (GDI/GFA Join Professional Development Conference, Indian Wells, CA.

# Medical Education (continued)



Pearl, J. (2023, March 2). Pulmonary Assessment, Diagnosis, Management [symposium]. Spring other TJC Respiratory Therapy.

Pearson, D. (2023, April 30). Faculty as Dungeon Masters: Their Role in the Biochemistry Classroom [Conference session]. ABE 2023 Meeting.

Spicer, D., Baleja, J., Huwe, P. J., Pearson, D., Ritchie, R., Sharkady, S., De La Rosa, V., & Yodh, J. (2023, May 4). Another Brick in the Wall: A New ABE Initiative to Build Curricular Resources using the ScholarRx Bricks Web Interface [Presentation]. ABE 2023 Meeting.

Wang, H., Vercio, C., Nagpal, N., Peltier, C., Jackson, J., Khidir, A., Paul, C., Beck Dallaghan, G., Kind, T., & Creel, A. (2023, April 3). "We really were kind of like in the trenches together and, and really a team.": Professional Identity Formation Through Shared Suffering [Conference session]. COMSEP 2023 Annual Meeting, Long Beach, CA.

Wang, H., Vercio, C., Nagpal, N., Peltier, C., Jackson, J., Khidir, A., Paul, C., Beck Dallaghan, G., Kind, T., & Creel, A. (2023, August 26). Promoting Medical Student Professional Identity Formation Through Sense of Belonging and Shared Suffering [Conference session]. Association for Medical Education in Europe (AMEE), Glasgow 2023.

## PROCEEDINGS PUBLICATIONS

Bryce, C. I., Abron, G. A., Stone, K., & Lynn, A. M. (2023, March). From admissions to graduation: Using Admission student characteristics to map resources [Conference session]. Association of American Medical Colleges (AAMC) Central Group on Student Affairs (CGSA)/Organization of Student Representatives (OSR) Meeting, Kansas City, Missouri.

Racataian-Gavan, R. (2023, March 3). Assessing Medical Student Clinical Competence: Time for a UT Consortium [Conference session]. UT Shine 2023 Innovations in Health Science Education Conference.

Racataian-Gavan, R. (2023, March 24). Building a Regional Consortium for the Assessment of Medical Student Clinical Competence: A Simulated Immersive Experience [Conference session]. SGEA Conference.

## (continued)

## Microbiology

### JOURNAL PUBLICATIONS

Peters, J., Maselli, D. J., Mangat, M., Coalson, J. J., Hinojosa, C., Giavedoni, L., Brown-Elliott, B. A., Chan, E., & Griffith, D. (2023). A marmoset model for *Mycobacterium avium* complex pulmonary disease. *PLoS One*, 18(3), e0260563. <https://doi.org/10.1371/journal.pone.0260563>

## Neurology

### JOURNAL PUBLICATIONS

Behrman, A., Cody, J., Chitnis, S., & Elandary, S. (2022). Dysarthria treatment for Parkinson's disease: one-year follow-up of SPEAK OUT!® with the LOUD Crowd®. *Logopedics, phoniatrics, vocology*, 47(4), 271-278. <https://doi.org/10.1080/14015439.2021.1958001>

Dewey, C., Feltrin, F., Shah, B., Pinho, M., DeBevis, J., Achilleos, M., McCreary, M., Lynch, S., Chitnis, S., & Dewey, R. (2023). Structural MRI Ratios Fail to Distinguish Progressive Supranuclear Palsy From Parkinson Disease in Individual Patients. *Neurology. Clinical practice*, 13(3), e200157. <https://doi.org/10.1212/CPJ.0000000000200157>

Dewey, D. C., Chitnis, S., McCreary, M. C., Gerald, A., Dewey, C. H., Pantelyat, A., Dawson, T. M., Rosenthal, L. S., & Dewey, R. B., Jr (2022). APDM gait and balance measures fail to predict symptom progression rate in Parkinson's disease. *Frontiers in neurology*, 13, 1041014. <https://doi.org/10.3389/fneur.2022.1041014>

McDaniels, B., Subramanian, I., Kurian, S., & Chitnis, S. (2023). Early-onset Parkinson's disease: An assessment of unmet psychosocial needs. *Parkinsonism & related disorders*, 110, 105395. <https://doi.org/10.1016/j.parkreldis.2023.105395>

Golden, E. P., McCreary, M., & Vernino, S. (2022). Responsiveness of UMSARS and other clinical measures in a longitudinal structured care clinic for multiple system atrophy. *Clinical Autonomic Research*, 32(6), 477-484. <https://doi.org/10.1007/s10286-022-00898-7>

## Obstetrics and Gynecology

### JOURNAL PUBLICATIONS

Kauffman, R. P., Castracane, V. D., Davis, G., Christopher, G., Shah, U., & Meachum, W. (2023). Nonalcoholic fatty liver disease (NAFLD) in lean, obese, and gestational diabetic pregnancies: A descriptive study. *Authorea Preprints*. <https://doi.org/10.22541/au.168551647.72763053/v1>

Royce, C. S., Morgan, H. K., Baecher-Lind, L., Cox, S., Everett, E. N., Fleming, A., Graziano, S. C., Sims, S. M., Morosky, C., Sutton, J., & Sonn, T. (2023). The time is now: Addressing implicit bias in obstetrics and gynecology education. *American Journal of Obstetrics and Gynecology*, 228(4), 369-381. <https://doi.org/10.1016/j.ajog.2022.12.016>

Sims, S. M., Cox, S. M., Bhargava, R., Everett, E. N., Fleming, A., Graziano, S., Morgan, H. K., Baecher-Lind, L., Royce, C., Sonn, T. S., Sutton, J. M., & Morosky, C. M. (2023). Clerkship director confidence in medical student career advising in obstetrics and gynecology. *AJOG Global Reports*, 3(2), 100187. <https://doi.org/10.1016/j.xagr.2023.100187>

Sonn, T., Fleming, A. F., Bhargava, R., Cox, S., Everett, E. N., Graziano, S. C., Morgan, H. K., Madani Sims, S., Morosky, C., Royce, C. S., Sutton, J., & Baecher-Lind, L. (2023). Encouraging workforce diversity- supporting medical students with mobility and sensory disabilities. *Disability and Rehabilitation*, 1-5. Advance online publication. <https://doi.org/10.1080/09638288.2023.2201511>

## Occupational and Environmental Medicine

### JOURNAL PUBLICATIONS

Caban-Martinez, A. J., Parvanta, C., Cabral, N., Ball, C. K., Eastlake, A., Levin, J. L., Moore, K., Nessim, D., Stracener, E., Thiese, M. S., & Schulte, P. A. (2022). Barriers to SARS-CoV-2 Testing among U.S. Employers in the COVID-19 Pandemic: A Qualitative Analysis Conducted January through April 2021. *International journal of environmental research and public health*, 19(18), 11805. <https://doi.org/10.3390/ijerph191811805>

Elliott, K. C., Lincoln, J. M., Flynn, M. A., Levin, J. L., Smidt, M., Dzugan, J., & Ramos, A. K. (2022). Working hours, sleep, and fatigue in the agriculture, forestry, and fishing sector: A scoping review. *American journal of industrial medicine*, 65(11), 898-912. <https://doi.org/10.1002/ajim.23418>

Levin, J. L., Wickman, A., Nguyen, A., Ho, T., Ball, C., Ndetan, H., & Carruth, A. (2023). Improving Crew Overboard Recovery for Commercial Fishing in the Gulf of Mexico. *Journal of agromedicine*, 28(4), 852-866. <https://doi.org/10.1080/1059924X.2023.2226135>

Parvanta, C., Caban-Martinez, A. J., Cabral, N., Ball, C. K., Moore, K. G., Eastlake, A., Levin, J. L., Nessim, D. E., Thiese, M. S., & Schulte, P. A. (2022). In Search of a Value Proposition for COVID-19 Testing in the Work Environment: A Social Marketing Analysis. *International journal of environmental research and public health*, 19(19), 12496. <https://doi.org/10.3390/ijerph191912496>

Rosero, D. V., Soto Mas, F., Nervi, L., Sebastian, R., Casanova, V., & Guldán, S. (2023). Impact of COVID-19 on USDA-certified organic producers: exploring the role of sociodemographic and contextual factors. *Organic Agriculture*, 13(2), 133-144. <https://doi.org/10.1007/s13165-023-00430-9>

Tiruneh, Y. M., Elliott, K. S., Oyer, L., Elueze, E., & Casanova, V. (2022). Addressing substance use and misuse in East Texas: Stakeholder-driven needs and priorities. *International Journal of Environmental Research and Public Health*, 19(22), 15215. <https://doi.org/10.3390/ijerph192215215>

### POSTER PRESENTATIONS

Aggarwal, A., & Ball, C. (2022, October). Thrombosed Hemorrhoid in a Young Patient Heavy Lifting at Work [Poster presentation]. MARCOEM Virtual Conference.

Casanova, V., Elliott, K., Moore, K., & Levin, J. (2023, March 3). Creating a Migrant Agricultural Worker HealthTeaching Toolkit. [Poster presentation]. 2023 Innovations in Health Science Education Annual Conference, Austin, TX.

Levin, J., Jones, K., Elkowitz, D., Cox, S., McGaha, P., Ball, C., Ledlow, G., Elueze, E., & Willis, B. (2022, December 5). Implementing a population health and system science course into a new medical school curriculum in rural northeast Texas [Poster presentation]. AMA Health Systems Science Summit (Chicago, Illinois).

White, A., & Rowlett, C. D. (2023, April). Machine Learning for Automated Identification of Fibrosis/Profusion on ILO B-Read Chest X-rays [Poster presentation]. American Occupational Health Conference (AOHC).

Willis, V., Levin, J., & Nessim, D. (2022, October 7). A review of job assignments and asbestos workplace exposure measurements for TAWP mesothelioma deaths through 2011 [Poster presentation]. Western Occupational Health Conference (WOHC) 2022: Aspire and Advocate in Napa, CA. <https://lutinemanagement.com/WOEMA/wp-content/uploads/2022/09/Willis.pdf>

### PRESENTATIONS

Ball, C. (2023, March 31). Utilization Review, Maximum Medical Improvement, and Impairment Rating. [Workshop session]. Annual Orthopedic Workshop.

Caban-Martinez, A. J., Thiese, M. S., Ball, C., Levin, J., & Nessim, D. (2023, August 15). Symposium. 2023 NIOSH COVID-19 IPA Science Summit (Virtual).

Casanova, V. (2022, November 17). Place as a Social Determinant of Health [Conference session]. National Rural Health Day - UT Health Science Center at Tyler.

Casanova, V. (2022, November 22). Place as a Social Determinant of Health. AHEC Connections.

Elliott, K., & Casanova, V. (2022, October 14). Migrant Teaching Toolkit. [Conference session]. Association for Prevention Teaching and Research.

Levin, J. L. (2022, September 20). ABPM Update to OEMRDA. [Conference session]. Occupational and Environmental Medicine Residency Directors Association [Virtual presentation].

Levin, J. L. (2023, April 5). Panel discussion. ACGME Milestones 2.0 Focus Group (virtual).

Levin, J. L. (2023, April 11). Case Presentation of an Agricultural Occupational Respiratory Disease. Agricultural Workshop/Agricultural Medicine Course. University of North Texas Rural Osteopathic Medical Education.

Levin, J. L., Wickman, A., & Guillot-Wright, S. (2023, June 7). Improving Crew Overboard (COB) Recovery for Commercial Fishing Vessels in the Gulf of Mexico. International Commercial Fishing PFD Work Group. <https://www.youtube.com/watch?v=fx47RO1RFEk>

Levin, J. L., & Wickman, A. (2023, June 20). Crew Overboard (COB) Recovery for Commercial Fishermen in the Gulf of Mexico. International Society for Agricultural Safety and Health (ISASH) 2023.

Nessim, D. (2023, February). Occupational Safety and Health Education and Research Centers Special Emphasis Panel. NIOSH-ERC.

Parvanta, C., Ball, C., Huyn, T., Dale, A., Moore, K., & Sembajwe, G. (2023, April 16). Social Marketing as a Framework for Exploring Employer Perception of the Value of COVID-19 Interventions [Conference session]. 2023 American Occupational Health Conference, Philadelphia, PA.

# Occupational and Environmental Medicine (continued)

Tiruneh, Y., Elliott, K., & Casanova, V. (2022, November). Substance Use Disorder (SUD) in East Texas: Community-Driven Needs and Assessment of Response Capacity [Conference session]. American Public Health Association Annual Meeting.

Willis, V., Levin, J. L., & Nessim, D. E. (2023, April 16). A Review of Job Assignment and Asbestos Workplace Exposure Measurements for TAWP Mesothelioma Deaths Through 2011 [Conference session]. American Occupational Health Conference 2023.

Willis, V., Levin, J. L., & Nessim, D. E. (2023, May 19). A Review of Job Assignment and Asbestos Workplace Exposure Measurements for TAWP Mesothelioma Deaths Through 2011 [Conference session]. Texas College of Occupational and Environmental Medicine (TxCOEM 2023) as part of Texas Medical Association TexMed Conference.

# Oncology - HOPE Cancer Center

## JOURNAL PUBLICATIONS

Anderson, C. M., Lee, C. M., Saunders, D., Curtis, A. E., Dunlap, N. E., Nangia, C., Lee, A. S., Kooroor, P., Bar-Ad, V., Pedadda, A. V., Jr, Holmlund, J., Downs, M., & Sonis, S. T. (2022). Two-year tumor outcomes of a phase 2b, randomized, double-blind trial of Avasopasem Manganese (GC4419) versus placebo to reduce severe oral mucositis owing to concurrent radiation therapy and cisplatin for head and neck cancer. *International journal of radiation oncology, biology, physics*, 114(3), 416-421. <https://doi.org/10.1016/j.ijrobp.2022.06.063>

Mahmood, S., Li, D., Lee, A., Rowe, J., Beg, M., Kasturi, V., Iyer, R., Abrams, T., & Dayyani, F. (2022). A multicenter, phase Ib/II, open-label study of tivozanib with durvalumab in advanced hepatocellular carcinoma (DEDUCTIVE). *Future Oncology*, 18(40), 4465-4471. <https://doi.org/10.2217/fon-2022-0844>

# Pediatrics

## JOURNAL PUBLICATIONS

Briggs, S., Gupta, V., Thakkar, N., Librizzi, J., Temkit, H., & Engel, R. (2023). Decreasing goal oxygen saturations in bronchiolitis is associated with decreased length of stay. *Hospital Pediatrics*, 13(8), 688-694. <https://doi.org/10.1542/hpeds.2022-007020>

Soto Mas, F., Nervi, L., Rosero, D. V., Sebastian, R., Guldán, S., & Casanova, V. (2022). COVID-19 and essential workers: Healthcare delays among organic farmers. *Journal of Healthcare Quality Research*, 37(5), 283-290. <https://doi.org/10.1016/j.jhqr.2022.02.001>

## POSTER PRESENTATIONS

Jurgens, V., Librizzi, J., Shah, N. H., Bhansali, P., Balmer, D. F., & Beck, J. (2023, August). How the Clinical Learning Environment Influences Pediatric Hospital Medicine (PHM) Fellows' Perceptions on Autonomy [Poster presentation]. 2023 Pediatric Hospital Medicine Conference.

## PRESENTATIONS

Morales, C., & Willis, B. (2023, July 26). Community Engagement and Health Equity: The New Social Contract for Academic Medicine. [Conference session]. Texas System of Care & Community Resource Coordination Conference 2023. <https://www.youtube.com/watch?v=Edrm2zt8XdY>

Smith, V., & Olson, J. (2023, March 9). State Level Policies to Make an Impact. Food Insecurity in Texas. [Webinar]. Michael & Susan Dell Center for Healthy Living at The University of Texas School of Public Health. <https://www.youtube.com/watch?v=Ay7N8vE6fdU&t=3s>

Smith, V. (2023, April). Making Advocacy Work [Conference session]. AAP Advocacy Conference 2023.

Willis, B. (2022, September). Beyond Holistic Admissions: No One Knows What Their Doctor's MCAT Score Is. Ajman University Medical School.

Willis, B. (2022, September). Fit Steps for Teaching: Staying Active to Promote Learner Engagement. Ajman University Medical School.

Willis, B. (2023, April). Beyond Holistic Admissions: No One Knows What Their Doctor's MCAT Score Is. Eastern Carolina Medical School.

# Preventive Medicine and Population Health

## JOURNAL PUBLICATIONS

Bush, K., Patrick, C., Elliott, K., Morris, M., Tiruneh, Y., & McGaha, P. (2023). Unsung heroes in health education and promotion: How Community Health Workers contribute to hypertension management. *Frontiers in public health*, 11, 1088236. <https://doi.org/10.3389/fpubh.2023.1088236>

Cage, S. A., McGaha, P., Matocha, M., Crum, M., Fieseler, C., Trail, L., Warner, B. J., & Gallegos, D. M. (2022). Attitudes Toward COVID-19 and COVID-19 Vaccinations Among Athletic Trainers. *The Internet Journal of Allied Health Sciences and Practice*, 20(4), Article 14. <https://nsuworks.nova.edu/ijahsp/vol20/iss4/14/>

Serag, H., Clark, I., Naig, C., Lakey, D., & Tiruneh, Y. M. (2022). Financing benefits and barriers to routine HIV screening in clinical settings in the United States: A scoping review. *International Journal of Environmental Research and Public Health*, 20(1), 457. <https://doi.org/10.3390/ijerph20010457>

Tiruneh, Y. M., Elliott, K. S., Oyer, L., Elueze, E., & Casanova, V. (2022). Addressing substance use and misuse in East Texas: Stakeholder-driven needs and priorities. *International Journal of Environmental Research and Public Health*, 19(22), 15215. <https://doi.org/10.3390/ijerph192215215>

## POSTER PRESENTATIONS

Crum, M. (2023, May 4). Medical Student Training for Outbreak and Disaster Response [Poster presentation]. Harvard Macy Institute for Health Educators Course.

Elbadawi, A., Allie, H., Ellison-Giles, G., Olalde, M., Yost, J., Crum, M. (May 22-25, 2023.) Establishment of Next Generation Sequencing for Sars-CoV-2 with Wastewater Samples from Rural East Texas. [Poster presentation]. Association of Public Health Laboratories Annual Conference, Sacramento, California.

## PRESENTATIONS

Serag, H., Clark, I., Naig, C., Lakey, D., & Tiruneh, Y. M. (2023, May 23). Financing Benefits and Barriers to Routine HIV Screening in Clinical Settings in the United States: A Scoping Review [Conference session]. Texas Public Health Association (TPHA) 2023 Annual Education Conference.



# Preventive Medicine and Population Health (continued)

## PRESENTATIONS

Tiruneh, Y. M., Elliott, K. S., Oyer, L., Elueze, E., & Casanova, V. (2022, November 9). Substance Use Disorder (SUD) in East Texas: Community-Driven Needs and Assessment of Response Capacity [Conference session]. American Public Health Association (APHA) 2022 Annual Meeting & Expo.

Tiruneh, Y. M., Elerian, N., Serag, H., Garcia, M., Clark, I., & Lakey, D. (2023, March 28). HIV Prevention Education for Future Medical Providers: A Scoping Review. [Conference session]. Teaching Prevention 2023: Leadership for Health Equity, Association for Prevention Teaching and Research (APTR).

## GRANTS

Patel, D.A. Bringing a Health Equity Framework to the Texas Perinatal Quality Collaborative to Eliminate Disparities in Perinatal Health, Centers for Disease Control (CDC) (September 30, 2022), USD \$265,046.

Pendergrass, P.W. Preventive Medicine Residency, Health Resources & Services Admin (HRSA) (May 1, 2023), USD \$216,233.

Yost, J.M., LRN Core A2 Funding, Texas Dept of State Health Services (TDSHS) & Centers for Disease Control (CDC) (April 13, 2023), USD \$160,925. cardi

# Pulmonary and Critical Care Medicine

## JOURNAL PUBLICATIONS

Lowenstein, L. M., Shih, Y. T., Minnix, J., Lopez-Olivo, M. A., Maki, K. G., Kyriotakis, G., Leal, V. B., Shete, S. S., Fox, J., Nishi, S. P., Cinciripini, P. M., & Volk, R. J. (2023). A protocol for a cluster randomized trial of care delivery models to improve the quality of smoking cessation and shared decision making for lung cancer screening. *Contemporary Clinical Trials*, 128, 107141. <https://doi.org/10.1016/j.cct.2023.107141>

## PRESENTATIONS

Duarte, A., Hassanin, E., Weyer, A., & Nannaka, V. B. (2023). An unusual cause of miliary radiographic findings. *American Journal of Respiratory and Critical Care Medicine*, 207, A1347. [https://doi.org/10.1164/ajrccm-conference.2023.207.1\\_MeetingAbstracts.A1347](https://doi.org/10.1164/ajrccm-conference.2023.207.1_MeetingAbstracts.A1347)

# Pulmonary Immunology

## JOURNAL PUBLICATIONS

Alffenaar, J. C., de Steenwinkel, J. E. M., Diacon, A. H., Simonsson, U. S. H., Srivastava, S., & Wicha, S. G. (2022). Pharmacokinetics and pharmacodynamics of anti-tuberculosis drugs: An evaluation of in vitro, in vivo methodologies and human studies. *Frontiers in Pharmacology*, 13, 1063453. <https://doi.org/10.3389/fphar.2022.1063453>

Boorgula, G. D., Singh, S., Shankar, P., Gumbo, T., Heysell, S. K., & Srivastava, S. (2023). Isoniazid pharmacokinetics/pharmacodynamics as monotherapy and in combination regimen in the hollow fiber system model of *Mycobacterium kansasii*. *Tuberculosis*, 138, 102289. <https://doi.org/10.1016/j.tube.2022.102289>

Deshpande, D., Srivastava, S., Pasipanodya, J. G., & Gumbo, T. (2022). Minocycline intra-bacterial pharmacokinetic hysteresis as a basis for pharmacologic memory and a backbone for once-a-week pan-tuberculosis therapy. *Frontiers in Pharmacology*, 13, 1024608. <https://doi.org/10.3389/fphar.2022.1024608>

Dornelas-Moreira, J., Lu, T. K., Vankayalapati, R., Idell, S., & Samten, B. (2022). Histone deacetylase 1 is required for the protective immunity against mycobacterium tuberculosis infection through regulation of STAT1 activation. *SSRN The Lancet*. <https://doi.org/10.2139/ssrn.4301050>

Gumbo, T., Srivastava, S., Deshpande, D., Pasipanodya, J. G., Berg, A., Romero, K., Hermann, D., & Hanna, D. (2023). Hollow-fibre system model of tuberculosis reproducibility and performance specifications for best practice in drug and combination therapy development. *The Journal of Antimicrobial Chemotherapy*, 78(4), 953-964. <https://doi.org/10.1093/jac/dkad029>

Jain, K. G., Zhao, R., Liu, Y., Guo, X., Yi, G., & Ji, H. L. (2022). Wnt5a/ $\beta$ -catenin axis is involved in the downregulation of AT2 lineage by PAI-1. *American Journal of Physiology: Lung Cellular and Molecular Physiology*, 323(5), L515-L524. <https://doi.org/10.1152/ajplung.00202.2022>

Jung, B. G., Dean, K., Wadle, C., Samten, B., Tripathi, D., Wallace, R. J., Jr, Brown-Elliott, B. A., Tucker, T., Idell, S., Philley, J. V., & Vankayalapati, R. (2022). Decreased interleukin-1 family cytokine production in patients with nontuberculous mycobacterial lung disease. *Microbiology Spectrum*, 10(6), e0311022. <https://doi.org/10.1128/spectrum.03110-22>

# Pulmonary Immunology (continued)

McShane, P. J., Choate, R., Johnson, M., Maselli, D. J., Winthrop, K. L., Metersky, M. L., & Bronchiectasis and NTM Research Registry Investigators (2023). Racial and ethnic differences in patients enrolled in the national bronchiectasis and nontuberculous mycobacteria research registry. *Respiratory Medicine*, 209, 107167. <https://doi.org/10.1016/j.rmed.2023.107167>

Mulik, S., Dogra, P., & Jabrane-Ferrat, N. (2023). Editorial: NK cells in viral immunology and immunotherapy. *Frontiers in Immunology*, 14, 1216158. <https://doi.org/10.3389/fimmu.2023.1216158>

Murillo, O., Moreira, J. D., Kujur, W., Velasco-Alzate, K., Sen Santara, S., Konduru, N. V., & Mulik, S. (2022). Costimulatory CD226 signaling regulates proliferation of memory-like NK cells in healthy individuals with latent mycobacterium tuberculosis infection. *International Journal of Molecular Sciences*, 23(21), 12838. <https://doi.org/10.3390/ijms232112838>

Park, B. M., Jung, B. G., Lee, J. A., & Lee, B. J. (2023). Mitigating Effects of *Tenebrio molitor* Larvae Powder Administration in Mice with Dextran Sodium Sulfate (DSS)- Induced Colitis. *Asian Pacific journal of cancer prevention: APJCP*, 24(5), 1751-1758. <https://doi.org/10.31557/APJCP.2023.24.5.1751>

Shankar, P., Singh, S., Boorgula, G. D., Gumbo, T., Heysell, S. K., & Srivastava, S. (2022). Challenges and a potential solution to perform drug susceptibility testing of omadacycline against nontuberculous mycobacteria. *Tuberculosis (Edinburgh, Scotland)*, 137, 102269. <https://doi.org/10.1016/j.tube.2022.102269>

Singh, S., Gumbo, T., Boorgula, G. D., Shankar, P., Heysell, S. K., & Srivastava, S. (2022). Omadacycline Pharmacokinetics/Pharmacodynamics in the Hollow Fiber System Model and Potential Combination Regimen for Short Course Treatment of *Mycobacterium kansasii* Pulmonary Disease. *Antimicrobial agents and chemotherapy*, 66(9), e0068722. <https://doi.org/10.1128/aac.00687-22>

Srivastava, R., Labani-Motlagh, A., Chen, A., Yang, F., Ansari, D., Patel, S., Ji, H., Trasti, S., Dodda, M., Patel, Y., Zou, H., Hu, B., & Yi, G. (2023). Development of a human glioblastoma model using humanized DRAG mice for immunotherapy. *bioRxiv : the preprint server for biology*, 2023.02.15.528743. <https://doi.org/10.1101/2023.02.15.528743>

Srivastava, S., Wang, J. Y., Magombedze, G., Chapagain, M., Huang, H. L., Deshpande, D., Heysell, S. K., Pasipanodya, J. G., & Gumbo, T. (2023). Nouveau short-course therapy and morphism mapping for clinical pulmonary *Mycobacterium kansasii*. *Antimicrobial agents and chemotherapy*, 95(5), e01553-20. <https://doi.org/10.1128/AAC.01553-20>

## PRESENTATIONS

Farahani, L., Mcshane, P. J., Drake, T., Brown-Elliott, B. A., Philley, J., Wallace, R. J., Griffith, D. E., & Kasperbauer, S. H. (2023). Bedaquiline treatment as salvage therapy for nontuberculous mycobacterial pulmonary disease. *American Journal of Respiratory and Critical Care Medicine*, 207, A4248. [https://doi.org/10.1164/ajrccm-conference.2023.207.1\\_MeetingAbstracts.A4248](https://doi.org/10.1164/ajrccm-conference.2023.207.1_MeetingAbstracts.A4248)

Maselli, D. J., Brunton, A., Choate, R., Diaz, A. A., Mcshane, P. J., Swenson, C., Richards, C., Aksamit, T. R., Metersky, M. L., Tal-Singer, R., & Restrepo, M. I. (2023). Clinical features of patients with an eosinophilic phenotype: an analysis of the U.S bronchiectasis and NTM research registry. *American Journal of Respiratory and Critical Care Medicine*, 207, A4310. [https://doi.org/10.1164/ajrccm-conference.2023.207.1\\_MeetingAbstracts.A4310](https://doi.org/10.1164/ajrccm-conference.2023.207.1_MeetingAbstracts.A4310)

Richards, C., Brunton, A., Choate, R., Winthrop, K. L., Mcshane, P. J., Maselli, D. J., Knowles, M. R., Swenson, C., Tino, G., Aksamit, T. R., & Metersky, M. L. (2023). Cftr mutation and increased rates of pulmonary infections among patients from the us bronchiectasis and NTM research registry. *American Journal of Respiratory and Critical Care Medicine*, 207, A4244. [https://doi.org/10.1164/ajrccm-conference.2023.207.1\\_MeetingAbstracts.A4244](https://doi.org/10.1164/ajrccm-conference.2023.207.1_MeetingAbstracts.A4244)

Singh, S., Shankar, P., Sulthana, S., Boorgula, G., Aryal, S., & Srivastava, S. (2023). Sarecycline Pharmacokinetics-pharmacodynamics in the Hollow Fiber Model of M. Avium Complex. *American Journal of Respiratory and Critical Care Medicine*, 207, A2967. [https://www.atsjournals.org/doi/pdf/10.1164/ajrccm-conference.2023.207.1\\_MeetingAbstracts.A2967](https://www.atsjournals.org/doi/pdf/10.1164/ajrccm-conference.2023.207.1_MeetingAbstracts.A2967)

Srivastava, S. (2022, September 19). In vitro PK/PD and implications for clinical care. Medical Affairs Group, Paratek Pharmaceutical.

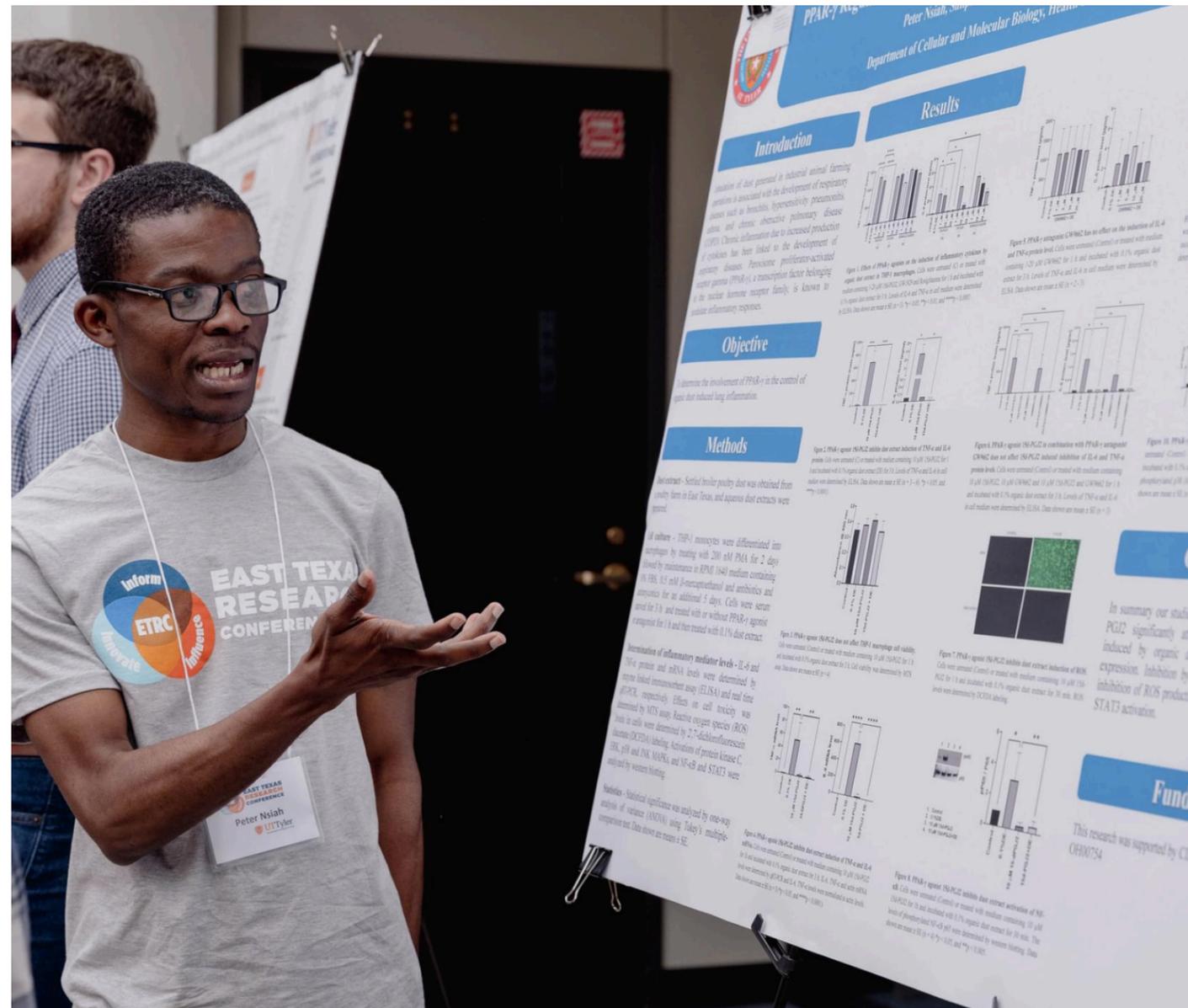
Weyer, A., Hassanin, E., Duarte, A., & Nannaka, V. B. (2023). An unexpected cause of shortness of breath. *American Journal of Respiratory and Critical Care Medicine*, 207, A1965. [https://doi.org/10.1164/ajrccm-conference.2023.207.1\\_MeetingAbstracts.A1965](https://doi.org/10.1164/ajrccm-conference.2023.207.1_MeetingAbstracts.A1965)

# Pulmonary

## JOURNAL PUBLICATIONS

Chotirmall, S. H., Dhar, R., McShane, P. J., & Chang, A. B. (2023). Bronchiectasis: A global disease necessitating global solutions. *The Lancet Respiratory Medicine*, 11(7), 581-583. [https://doi.org/10.1016/S2213-2600\(23\)00136-4](https://doi.org/10.1016/S2213-2600(23)00136-4)

Singh, S., Wang, J. Y., Heysell, S. K., McShane, P. J., Wadle, C., Shankar, P., Huang, H. L., Pasipanodya, J., Boorgula, G. D., Philley, J. V., Gumbo, T., & Srivastava, S. (2023). Omadacycline pharmacokinetics/pharmacodynamics in the hollow fiber model and clinical validation of efficacy to treat pulmonary mycobacterium abscessus disease. *International Journal of Antimicrobial Agents*, 62(1), 106847. <https://doi.org/10.1016/j.ijantimicag.2023.106847>



# Surgery

## CHAPTERS

Fernández, L. G. (2023, July 21). Abdominal Closure Technique. *MedScape*. [https://emedicine.medscape.com/article/1961789-technique?ecd=ppc\\_google\\_rlsa-traf\\_mscp\\_emed\\_md\\_us](https://emedicine.medscape.com/article/1961789-technique?ecd=ppc_google_rlsa-traf_mscp_emed_md_us)

Fernández, L. G., Norwood, S. H., & Berne, J.D. Neck Injuries, Tracheal, Laryngeal, and Oropharyngeal Injuries. In J. A. Asensio & D. D. Trunkey (Eds.), *Current Therapy of Trauma and Surgical Critical Care*, (3rd ed, 2023, pp. 189-202).

# Surgery (continued)

## JOURNAL PUBLICATIONS

Abdelgawad, M., Kamel, O. M., Issa, P. P., Omar, M., Barghuthi, L., Davis, T., & Ismael, H. (2022). Ruptured gastro-intestinal stromal tumor as a surgical emergency: A case report and literature review. *Journal of Surgical Case Reports*, 2022(11), rjac434. <https://doi.org/10.1093/jscr/rjac434>

Amato, S., Benson, J. S., Stewart, B., Sarathy, A., Osler, T., Hosmer, D., An, G., Cook, A., Winchell, R. J., & Malhotra, A. K. (2023). Current patterns of trauma center proliferation have not led to proportionate improvements in access to care or mortality after injury: An ecologic study. *The Journal of Trauma and Acute Care Surgery*, 94(6), 755-764. <https://doi.org/10.1097/TA.0000000000003940>

Amato, S., Dunne, E., Benson, J., Cook, A., Osler, T., An, G., & Malhotra, A. (2023). Trends of access and outcome disparities in the US national trauma data bank. *Journal of the American College of Surgeons*, 236(5), S138. <https://doi.org/10.1097/01.XCS.0000933548.03421.35>

Amato, S., Fanning, J. E., Benson, J., Cook, A., Osler, T., An, G., & Malhotra, A. (2023). Burden, characteristics, and outcomes of firearm injuries presenting to hospitals in the US. *Journal of the American College of Surgeons*, 236(5), S131. <https://doi.org/10.1097/01.XCS.0000933472.74016.8c>

Cage, S. A., Warner, L., Cook, A., Swindall, R., Wadle, C., & Warner, B. (2023). Prevalence of self-reported ADHD symptoms among collegiate athletes. *Internet Journal of Allied Health Sciences and Practice*, 21(2), Article 18. <https://doi.org/10.46743/1540-580X/2023.2305>

Cage, S., McGaha, P., Matocha, M., Crum, M., Fieseler, C., Trail, L., Warner, B., & Gallegos, D. (2022). Attitudes toward COVID-19 and COVID-19 vaccinations among athletic trainers. *Internet Journal of Allied Health Sciences and Practice*, 20(4), Article 14. <https://doi.org/10.46743/1540-580X/2022.2208>

Domianni, A., Delapena, S., Fernandez, L., Jabassini, M., O'Keefe, S., Villanueva, R. and Matthews, M. (2023) Necrotizing Fasciitis Secondary to Emphysematous Cholecystitis and Cholecystocutaneous Fistula: A Rare Case Report Presentation. *Surgical Science*, 14, 388-397. <https://doi.org/10.4236/ss.2023.145043>

Fernández, L. G., Norwood, S. H., Orsi, C., Heck, M., Gonzalez, K., Williams, N., Matthews, M. R., Scalea, T. M., & Swindall, R. (2022). Use of a Modified ABThera ADVANCE™ open abdomen dressing with intrathoracic negative-pressure therapy for temporary chest closure after damage control thoracotomy. *The American Journal of Case Reports*, 23, e937207. <https://doi.org/10.12659/AJCR.937207>

Fernandez, L. G., Matthews, M. R., & Kim, P. J. (2023). A synthetic hybrid-scale fiber matrix for complex surgical wounds: consensus guidelines. *Wounds: A Compendium of Clinical Research and Practice*, 35(5), E160-E168. <https://doi.org/10.25270/wnds/22067>

Fernandez, L., Matthews, M., Kim, P. J., Barghuthi, L., MacEwan, M., & Sallade, E. (2023). Clinical application of a synthetic hybrid-scale fiber matrix in a pediatric trauma patient. *Wounds: a compendium of clinical research and practice*, 35(8), E248-E252. <https://doi.org/10.25270/wnds/23039>

Ghneim, M., Kufera, J., Zhang, A., Stein, D., Penaloza-Villalobos, L., Swentek, L., Luo-Owen, X., Watras, J., Smith, A., Hahn, A., Rodriguez Mederos, D., Dickhudt, T. J., Puente, I., Laverick, P., Cunningham, K., Norwood, S., Fernandez, L., Eagleton, A., Jacobson, L. E., ... Tatar, A. (2023). Does Lower Extremity Fracture Fixation Technique Influence Neurologic Outcomes in Patients with Traumatic Brain Injury? The EAST Brain vs. Bone Multicenter Trial. *The Journal of Trauma and Acute Care Surgery*. <https://doi.org/10.1097/TA.0000000000004095>

Hakam, N., Keihani, S., Shaw, N. M., Abbasi, B., Jones, C. P., Rogers, D., Wang, S. S., Gross, J. A., Joyce, R. P., Hagedorn, J. C., Selph, J. P., Sensenig, R. L., Moses, R. A., Dodgion, C. M., Gupta, S., Mukherjee, K., Majercik, S., Smith, B. P., Broghammer, J. A., Schwartz, I., ... Multi-institutional Genito-Urinary Trauma Study Group (MiGUTS) (2023). Grade V renal trauma management: Results from the multi-institutional genito-urinary trauma study. *World Journal of Urology*, 41(7), 1983-1989. <https://doi.org/10.1007/s00345-023-04432-w>

Keihani, S., Rogers, D. M., Wang, S. S., Gross, J. A., Joyce, R. P., Hagedorn, J. C., Majercik, S., Sensenig, R. L., Schwartz, I., Erickson, B. A., Moses, R. A., Selph, J. P., Norwood, S., Smith, B. P., Dodgion, C. M., Mukherjee, K., Breyer, B. N., Baradaran, N., Myers, J. B., & (primary investigator), for the Multi-institutional Genito-Urinary Trauma Study Group (MiGUTS) (2023). Shattered kidney after renal trauma: Should it be classified as an American Association for the Surgery of Trauma Grade V injury? *Urology*, 179, 181-187. <https://doi.org/10.1016/j.urology.2023.06.015>

Kim, P. J., Fernandez, L., & Matthews, M. (2023). Early experience and recommendations for the use of an automated estimator of solution volume for negative pressure wound therapy with instillation. *Wounds: A Compendium of Clinical Research and Practice*, 35(2), E82-E87. <https://doi.org/10.25270/wnds/22029>



## Surgery (continued)

Komissarov, A. A., & Idell, S. (2023). PAI-1 drives septation and clinical outcomes in pleural infection. *American Journal of Respiratory and Critical Care Medicine*, 207(6), 653–655. <https://doi.org/10.1164/rccm.202210-1925ED>

Le, T. D., Cook, A. D., Le, T. T., Keyloun, J. W., Detwiler, P. W., Ledlow, G. R., Pusateri, A. E., & Singh, K. P. (2022). Trends in Traumatic Brain Injury Related to Consumer Products Among U.S. School-aged Children Between 2000 and 2019. *American journal of preventive medicine*, 63(4), 469–477. <https://doi.org/10.1016/j.amepre.2022.04.011>

Mauro, L., Janowski, C., Janowski, M., Gonzalez, A., Sidoti, E., Fernandez, L., Kim, P. and Matthews, M. (2023) Utilizing Instilling Negative Pressure Wound Therapy with Vashe Wound Solution for an Infected Sternal Dehiscence: A Case Report. *Surgical Science*, 14, 231-239. <https://doi.org/10.4236/ss.2023.143027>

Rollins, A., Ho, K., Fernandez, L. G., Lardizabal, M. A., Roth, B., O'Keefe, S. F., & Matthews, M. R. (2023). The sandwich technique for quick and efficient application of negative pressure wound therapy to the feet and hands: A case report. *Wounds: A Compendium of Clinical Research and Practice*, 35(1), E17–E21. <https://doi.org/10.25270/wnds/22024>

Ross, A.C., Castaneda, A.N., Stucki, J.D., Dishner, K.A., Lardizabal, M.A., Roth, B.J., Fernandez, L.G., Delapena, S.A. and Matthews, M.R. (2023) Troubleshooting a Difficult Trans-Tibial/Fibula Amputation: A Case Report. *Surgical Science*, 14, 414-427. <https://doi.org/10.4236/ss.2023.146046>

### PRESENTATIONS

Cook, A. (2022, November 27). The Trauma Mortality Prediction Models (TMPM) [Conference session]. International Collaborative Effort on Injury Statistics (Adelaide, Australia), Adelaide, Australia.

Fernandez, L. (2023, April). Use of a Modified ABTHERA ADVANCETM Open Abdomen Dressing with Intrathoracic Negative- Pressure Therapy for Temporary Chest Closure After Damage Control Thoracotomy [Conference session]. Texas Surgical Society, 2023 Spring Meeting.

Fernandez, L. G. (2023, August 1). Temporary Abdominal Closure Techniques. MedScape. <https://emedicine.medscape.com/article/196820-overview>

Le, T. D., Cook, A., Keyloun, J. W., Ledlow, G., Pusateri, A. E., Uhm, M., Bae, S., & Singh, K. P. (2023, July 9). Trends in brain injury among United States female students linked to consumer products [Conference session]. MODSIM2023. 25th International Congress on Modelling and Simulation. <https://doi.org/10.36334/modsim.2023.le254>

# School of Nursing

At the School of Nursing, our mission is to “empower students to excel as nurse clinicians, leaders, and scholars in a caring, learner-centered, strengths-based environment”. With 2,362 students enrolled this spring in undergraduate, master’s, and doctoral degree programs, the School of Nursing comprises 23% of the university’s enrollment. As a practice discipline, the Scholarship of Practice is deeply embedded in our programs. Faculty and students actively participate in caring for individuals, families, and communities throughout the region. They are engaged in acute care, advanced practice, and community health settings.

School of Nursing faculty also engage in the Scholarship of Discovery. Despite the continued challenges associated with nursing shortages and the need to focus on delivery of care, School of Nursing faculty published 28 journal articles, three book chapters, and gave 79 professional presentations, including 50 poster and 29 podium presentations, during the 2022-2023 academic year. The work performed by faculty was supported by over \$2.6 million in current grant funding, much of it focused on preparing the next generation of nurses and rural outreach. Examples include grant funding to support mental health of rural youth, vaccine outreach in rural east Texas, educating the next generation of nursing faculty, utilization of resources in the greater Longview region, and providing psychological and exercise support to persons with chronic illness.

The increase in grant support is a direct result of the impact made by the new School of Nursing Associate Dean for Research. Dr. Susan McBride, renowned scholar for her expertise in data science and analytics, worked closely with faculty within the school, across campus, and stakeholders in the community to advance the Scholarship of Discovery. She collaborated with the Executive VP for Health Affairs and colleagues from the four health-related schools under the Health Affairs Division to propose a new Institute that will focus on health-related research and data science. Working with colleagues from the School of Health Professions, School of Medicine, and School of Pharmacy, we will continue to expand our understanding of health-related issues and address the critical healthcare needs of our region and beyond.

Barbara Haas, PhD, RN  
*Lee Roy and Lucy Mathis Chair in Nursing*  
Dean and Professor, School of Nursing



## Nursing

### CHAPTERS

Miller, C. L. (2022). Social, Cultural, and Ethical Issues: Human Trafficking. In K. Holub, L. Callister, & R. Pace-Jones (Eds.), *Foundations of Maternal-Newborn and Women’s Health Nursing* 8th ed. Elsevier. <https://evolve.elsevier.com/cs/product/9780323827386?role=student>

### CREATIVE PRODUCTIONS

Denson, A., & Wesley, J. N. (2023). Medication administration video.

Rizer, C. A. (2023, Summer). Virtual Site Visit for Texas Higher Education Coordinating Board review of facilities and resources: associated with CRNA Program proposal. In Texas Higher Education Coordinating Board.

### JOURNAL PUBLICATIONS

Baldwin, S. B., Miller, C. L., Maclin, S. W., & Stoklosa, H. (2023). Toward an evidence-based framework to guide health care responses for patients impacted by human trafficking: Evaluation of the HEAL trafficking protocol toolkit. *Journal of Human Trafficking*. <https://doi.org/10.1080/23322705.2023.2170693>

De Quezada, C. D., Alfred, D., Hermanns, M., Greer, D. B., Vardaman, S., & Amaya, M. (2022). Language proficiency and academic success of bilingual Hispanic nursing students along the U.S.-Mexico border. *Journal of American Nurses Association of New York (JANANY)*, 2(2), 49-59. <https://doi.org/10.47988/janany.4491588158643655.2.2>

Gunawan, J., Aunguroch, Y., Fisher, M., & Marzilli, C. (2022). Novelty: Nursing scholars’ guide for successful publication. *Belitung Nursing Journal*, 8(5), 378-380. <https://doi.org/10.33546/bnj.2367>

Hermanns, M., & Gipson, C. S. (2022). Choosing joy amidst the pandemic. *Journal of Christian Nursing*, 39(4), 266. <https://doi.org/10.1097/CNJ.0000000000000984>

Hermanns, M., & Skinner, M. (2022). The Benefits of using a citation manager. *Research and Theory for Nursing Practice*, 36(3), 219-220. <https://doi.org/10.1891/RTNP.36.3.219>

Hermanns, M., Mastel-Smith, B., Stone, K., & Streufert, P. D. (2022). Engaging nursing honors students in research: A model program. *Journal of Professional Nursing*, 43, 129-133. <https://doi.org/10.1016/j.profnurs.2022.10.002>

Johnson, K. E., Thurman, W., Hoskote, A., Preston, A., Rew, L., & Maughan, E. D. (2022). *School nurse staffing in Texas alternative high schools: A mixed methods exploration*. *The Journal of School Nursing*. <https://doi.org/10.1177/10598405221126178>



# Nursing (continued)

McBride, S., Tietze, M., Thomas, L., & Hanley, M. A. (2023). Electronic health record maturity matters! Texas nurses speak out in their second statewide study. *CIN: Computers, Informatics, Nursing*, 41(2), 110-122. <https://doi.org/10.1097/CIN.0000000000000915>

Schlemmer, T. (2023). Impact of Social Isolation on Dementia. *International Journal of Nursing and Health Care Research*, 6(5).

Schlemmer, T. (2023). The Evaluation of Oxygen Need. *International Journal of Nursing and Health Care Research*, 6(9).

## OTHER

Hanson, A., & Reagan, H. (2023). BSN Pathway to Success. *Texas Board of Nursing Education Newsletter*. [https://www.bon.texas.gov/pdfs/education\\_pdfs/education\\_nbaewsletter/Spring%202023%20Newsletter%20-%20Vol%201%20No%201.pdf](https://www.bon.texas.gov/pdfs/education_pdfs/education_nbaewsletter/Spring%202023%20Newsletter%20-%20Vol%201%20No%201.pdf)

## OTHER TEACHING MATERIALS

Jowell, V. L. (2022). National RN-BS Faculty Forum: Position Paper on Incorporating Essentials into RN-BS Curricula. In *American Association of Colleges of Nursing (AACN)*. [https://drive.google.com/file/d/198w\\_PRT4Lt-BYvFdyVqI9\\_b0G8xqO3bG/view?usp=sharing](https://drive.google.com/file/d/198w_PRT4Lt-BYvFdyVqI9_b0G8xqO3bG/view?usp=sharing)

## POSTER PRESENTATIONS

Barnes, G. (2023, March). Out of the Classroom and Into the Woods. In *The 2023 Innovation in Health Science Education Annual Conference*. University of Texas and MD Anderson.

Castaneda, K., Jones, J., & Mastel-Smith, B. (2023, April). Women's Experience of Cancer Treatment During COVID-19 on the Texas-Mexico Border. In *Southern Nursing Research Society 37th Annual Conference*. Southern Nursing Research Society (SNRS).

Gipson, C. S., Guidry, R. L., Preston, A., & Deal, B. J. (2023, March). Reimagining Nursing Education: The Integration of Quality Improvement and Self-care Among Nursing Students. In *The 2023 Innovations in Health Science Education Annual Conference*. The University of Texas Kenneth I. Shine, M.D., Academy of Health Science Education.

Gipson, C. S., & Deal, B. J. (2023, April). Well-being and Healthy Lifestyle Interventions in Nursing Students: A Scoping Review. In *The 6th National Summit for Building Healthy Academic Communities*. National Consortium for Building Healthy Academic Communities.

Gipson, C. S., & Dickerson, S. S. (2023, June). Sleep Hygiene and Self-Efficacy for Sleep Hygiene among Good and Poor Sleepers: A Secondary Analysis. In *SLEEP 2023*. American Academy of Sleep Medicine.

Higbee, M., & Gipson, C. S. (2023, April). Exploring Energy Drink Consumption Habits of Nursing Students. In *The 6th National Summit for Building Healthy Academic Communities*. National Consortium for Building Healthy Academic Communities.

Kimzey, M., & Mastel-Smith, B. (2022, October). The Value of a Person with Dementia Co-Teaching an Interprofessional Dementia Elective. In *National Hartford Center of Gerontological Nursing Excellence Annual Conference*. National Hartford Center of Gerontological Nursing Excellence.

Mastel-Smith, B., & Hermanns, M. (2022, November). Parkinson's and Stigma: A Multiple Case Study. In *GSA 2023 Annual Scientific Meeting*. Gerontological Society of America.

Mettlen, J., Preston, A. J., Wallace-Gay, T. D., & Faghihifar, J. (2023, June). Interprofessional Collaborative Approach to Healthcare for Persons Experiencing Homelessness. In *2023 ADEA Allied Dental Program Director's Conference*. American Dental Education Association.

Preston, A., Vega, J. A., Wallace-Gay, T. D., Mettlen, J., Wade, M., Green, B. A., Pippin, P., & Parti, A. (2023, March). The Influence of Poverty and Race in Acute Care Management and Discharge Planning: An Interprofessional Simulation Activity. In *The 2023 Innovation in Health Science Education Annual Conference*. University of Texas and MD Anderson.

Rew, L., Kelley, M., Preston, A., & Spees, J. (2022, November). Indicators of Psychological Capital Among Self-Identified Indigenous Youth Experiencing Homelessness. In *3rd International Indigenous Nursing Research Summit*. University of Texas at Austin.

Rizer, C. A., Kennel, K., Chapman, B., Mendez, T., Whitehead, S., Geddie, J., & Kelly, T. (2023, February). Intune Mobile Clinic-- Implementing Behavioral Health into Rural Mobile Primary Care. In *4th Annual NurseThink® for Nurse Educators Next Gen Learning: Fundamentals, NCLEX®, and Beyond*

Rose, D. R., Newman, S. D., Mueller, M., Magwood, G. S., & Lutz, B. J. (2023, February). Investigating Working Age Caregivers of Stroke Survivors. In *2023 International Stroke Conference*. American Heart Association.

# Nursing (continued)

## PRESENTATIONS

Barnes, G. (2023, April). Medicine in the Wild. In *Pre-Health Students Conference*. Academy of Future Health Professionals.

Jowell, V. L. (2023, February). AACN Regional Competency Based Education Meeting: AACN Essentials, CBE, and RN-BS(N) Programs. In *Regional Meeting for AACN CBE Meeting (Southwestern Region)*.

Mastel-Smith, B. (2023, Spring). Communicating with Older Adults. In *22nd Annual Investment in Caregivers Conference*. Oregon Department of Health.

Mastel-Smith, B. (2023, Spring). Dementia Demystified. In *22nd Annual Investment in Caregivers Conference*. Oregon Department of Health.

Mastel-Smith, B. (2023, May). Development of a Dementia Friendly Community. In *Forum on Aging in Rural Oregon*. Oregon Office of Rural Health.

Mastel-Smith, B., Dawson, W., & Harwood, R. (2023, Summer). Dementia in Rural Oregon: Envisioning Support Across the Care Continuum. In *2023 Forum on Aging in Rural Oregon*. Oregon Office of Rural Health.

McBride, S., Lowe, A., & Hooten, A. (2023, Spring). Data Integration for Evaluating the Impact of GLOW Program on 911 Calls. In *2023 Doswell Health Informatics Conference: Enhancing Clinician and Patient Well-Being Through Health Informatics*. TWU College of Nursing.

Nelson, J. M. (2023, April). A Phenomenological Exploration of the Lived Experience of Concurrent ADN-BSN Program Graduates in the Southwestern U.S. In *Texas Women's University Student Creative Arts and Research Symposium*. Texas Woman's University. <https://hdl.handle.net/11274/15026>

Parker, C. D., & Graham, D. (2023, May). Once Upon a (Virtual) Time: Telling a Persuasive Story with Data Visualization. In *Turning the Corner with Nursing Informatics*. American Nursing Informatics Association.

Petersen, S. W., & Chapman, B. (2022, Summer). Leveraging Technology in Healthcare and Education: A Mental Healthcare Outreach Innovation. In *Sigma's 33rd International Nursing Research Congress*. Sigma Theta Tau International.

Petersen, S. W. (2023, February). Panel Discussion: Role of the DNP Leader. *2023 TONL Annual Conference: Leading and Advancing the Nursing Profession*. Texas Organization for Nursing Leadership (TONL).

Preston, A., Rew, L., & Spees, J. (2023, Spring). The Social Determinants of Health and Inner Strengths of Youth Experiencing Homelessness. In *Southern Nursing Research Society 37th Annual Conference*. Southern Nursing Research Society (SNRS).

Rose, D. R., Parker, C. D., Newman, S., & Madiseti, M. (2023, April). Attack of the Bots: Researchers Beware. In *East Texas Research Conference*. University of Texas at Tyler.

Rose, D. R., Parker, C. D., Newman, S., & Madiseti, M. (2023, April). Attack of the Bots: Researchers Beware. In *2023 Doswell Health Informatics Conference*. Texas Women's University.

Rose, D. R., Newman, S., Mueller, M., Magwood, G., & Lutz, B. (2023, April). Investigating Needs, Concerns, and Quality of Life in Working-Age Informal Caregivers of Stroke Survivors. In *East Texas Research Conference*. University of Texas at Tyler.

## PROCEEDINGS PUBLICATIONS

Mastel-Smith, B., & Hermanns, M. (2022). Parkinson's Disease and Stigma: A Multiple Case Study. *Innovation in Aging*, 6(Suppl 1), 804. <https://doi.org/10.1093/geroni/igac059.2900>

## GRANTS

Chilton, J. Specialized Preceptors Innovate Nursing Education (SPIN), Texas Higher Education Coordinating Board (THECB) (February 14, 2023), USD \$298,670.

Chilton, J. HRSA Faculty Loan Renewal, Health Resources & Services Administration (July 21, 2023), USD \$159,081.

Gipson, C. The Impact of Professional Nurse Coaching on Well-being of Undergraduate Nursing Students: A Mixed Methods Study, American Holistic Nurses Association (June 1, 2023), USD \$5,000.

Lake, P. Fit to Care: Nurse Burnout, Christus Foundation (August 18, 2023), USD \$10,000.

McBride, S. ASE Tool: A validated tool to evaluate EHR competency in Simulation, Texas Tech University Health Science Center (TTUHSC) (November 1, 2022), USD \$6,292.

McBride, S. Center for Clinical and Translational Sciences (CTSA Hub Research Capacity), National Institutes of Health (March 1, 2023), USD \$3,451.

McBride, S. Evaluating the Effect of the Greater Longview Optimal Wellness Program (GLOW) on 911 Calls for an Overutilizing Cohort of Individuals, Episcopal Health Foundation (March 1, 2023), USD \$98,535.

Murley, B. Transnational Comparison: Effects of the Vitality Acupunch Exercise Program on Older Adults with Sarcopenia, A Pilot Study, SIGMA THETA TAU (November 10, 2022), USD \$1,000.

# Soules College of Business

As the Dean it is my privilege to introduce the Soules College of Business and highlight the continuous commitment students, faculty, and staff make in completing high-quality research and scholarly activities. In addition, the Hibbs Institute for Business and Economic Research continues to be a reliable source for updates and information about issues of interest to the East Texas region and beyond.

During the recent academic year, the faculty within the Soules College of Business completed journal publications, presentations (although many of them virtually), academic proceedings, doctoral dissertations, book chapters, manuscript reviews, etc. Faculty members also continue to serve in several leadership and editorship positions in their professional and academic field of study due to their reputation for scholarly and educational excellence.

The Soules College of Business's commitment to scholarly and educational excellence has not gone unnoticed. It has helped propel its online MBA program as a top-50 program, ranked # 46, in the most recent Fortune magazine rankings. Several programs in the Soules College of Business also continue to hold two prestigious international accreditations for educational quality and scholastic achievement from the Association to Advance Collegiate Schools of Business (AACSB) and the Association of Technology, Management, and Applied Engineering (ATMAE).

I would like to congratulate my colleagues and all members of the Soules College of Business family for another year of remarkable scholarly and research success!

Dr. Krist Swimberghe, DBA  
Dean, Soules College of Business



## Computer Science

### JOURNAL PUBLICATIONS

Burns, A. J., Roberts, T. L., Posey, C., Lowry, P. B., & Fuller, B. (2023). Going beyond deterrence: A contextualized middle-range theory of motives and controls for insider computer abuse. *Information Systems Research (ISR)*, 34(1), 342-362. <https://doi.org/10.1287/isre.2022.1133>

Chung, W., Zhang, Y., & Pan, J. (2022). A theory-based deep-learning approach to detecting disinformation in financial social media. *Information Systems Frontiers*, 25, 473-492. <https://doi.org/10.1007/s10796-022-10327-9>

Chung, W., & Lai, V. S. (2023). A temporal graph framework for intelligence extraction in social media networks. *Information & Management*, 60(4), 103773. <https://doi.org/10.1016/j.im.2023.103773>

Kulkarni, A. D. (2023). Convolution neural networks for phishing detection. *International Journal of Advanced Computer Science and Applications*, 14, 15-19. [https://thesai.org/Downloads/Volume14No4/Paper\\_3-Convolution\\_Neural\\_Networks\\_for\\_Phishing\\_Detection.pdf](https://thesai.org/Downloads/Volume14No4/Paper_3-Convolution_Neural_Networks_for_Phishing_Detection.pdf)

### POSTER PRESENTATIONS

Syed, A. R., & Chung, W. (2023, April 21). Predicting credit card delinquency using a data-augmented ensemble learning approach. East Texas Research Conference. The University of Texas at Tyler, Tyler, TX, United States.

# Finance, Accounting and Business Law

## JOURNAL PUBLICATIONS

Benson, B., Davidson, T., James, H. L., & Wang, H. (2022). Board busyness and corporate payout: Are all busy directors the same? *Accounting and Finance*, 62(3), 3711-3759. <https://doi.org/10.1111/acfi.12903>

Cowart, T. W. (2023). One buffalo in Texas: Legal and ethical issues in Native American gaming operations. *Journal of Business, Entrepreneurship and the Law*, 16(1), 1-32. <https://digitalcommons.pepperdine.edu/jbel/vol16/iss1/1>

Cowart, T. W., Rashi, T., & Bock, G. L. (2023). Should pharma companies waive their covid vaccine patents? A legal and ethical appraisal. *Laws*, 12(3). <https://doi.org/10.3390/laws12030047>

Pandey, V. K., Steigner, T., & Sutton, N. (2023). The value of economic freedom in cross border mergers. *International Review of Economics and Finance*, 86, 540-563. <https://doi.org/10.1016/j.iref.2023.04.002>

## PRESENTATIONS

Bock, G. L., & Cowart, T. W. (2023, March 2-5). Pro-life enough? A review of child and family health services in Texas. In *Association of Practical and Professional Ethics International Conference*. Association of Practical and Professional Ethics.

Fischer, M. (2023, March 8-11). Research publication panel. In *Southwestern Decision Science Institute Annual Meeting*. SWDSI.

Hsieh, C. (2023, June 9-11). Immigrant-founder firm, layoff, and firm performance. In *International Academy of Business and Economics-2023 Houston Conference*.

James, H. L. (2022, October 19-22). Social capital and riskiness of trade credit. In *Financial Management Annual Meeting*.

James, H. L., Ngo, T., & Yang, Z. (2022, October 19-22). Religion and income smoothing. In *Financial Management Annual Meeting*.

James, H. L., Ngo, T., & Wang, H. (2022, November 16-19). The impact of more able managers on trade credit. In *Southern Finance Association Annual Meeting 2022*.

Kim, H., Laksmana, I., & Harjoto, M. A. (2023, August 7-9). Lobbying and political risk disclosure: Do socially responsible firms disclose more? In *American Accounting Association Annual Meeting*. American Accounting Association.

Liang, E., Tang, W., & Willis, V. F. (2023, March 8-11). Not all auditor expertise plays the same role: Auditor expertise in client life cycle and audit quality. In *2023 Southwest Region Meeting*. American Accounting Association - Southwest Region.

White, K. T., & Cowart, T. W. (2023, July 25-29). Behind the cloaking device: Is there an anti-competitive agreement lurking under the use of common pricing algorithms by multifamily landlords? In *Academy of Legal Studies in Business Annual Conference*. Academy of Legal Studies in Business.

Willis, V. F. (2023, October). Ed talk presentation: Ways to engage students. In *TXCPA Accounting Educators Conference*. Texas Society of Certified Public Accountants.

## PROCEEDINGS PUBLICATIONS

Fischer, M., & White, K. (2023, March). Paycheck protection program and its impact. *Southwest Decision Science Institute Annual Meeting*.

# Human Resource Development

## CHAPTERS

Park, J., You, J., & Cho, Y. (2023). A study on Korean women leaders' career success, challenges, and coping strategies. In *Human resource development in South Korea: Work, life, and learning in the Covid-19 pandemic (in Korean)* (pp. 230-259). Bakyong-story.

## JOURNAL PUBLICATIONS

Cho, Y. (2022). Editor's note. *Human Resource Development Review*, 21(4), 371-373. <https://doi.org/10.1177/15344843221131713>

Cho, Y., & Ghosh, R. (2022). Reflections on the reviewer development workshop. *Human Resource Development Review*, 21 (3), 263-266. <https://doi.org/10.1177/1534484322111425>

Cho, Y. (2023). Editorial: Special issue on qualitative methods for theory building in HRD: Why now? *Human Resource Development Review*, 22(1), 3-6. <https://doi.org/10.1177/15344843221146358>

Cho, Y. (2023). Reflecting on the 2023 AHRD Conference. *Human Resource Development Review*, 22(1), 151-153. <https://doi.org/10.1177/15344843221146358>

# Human Resource Development (continued)

Cho, Y. (2023). Special issue on qualitative methods for theory building in HRD: Why now? *Human Resource Development Review*, 22(1), 3-6. <https://doi.org/10.1177/15344843221146358>

Cho, Y., & Egan, T. (2023). The changing landscape of action learning research and practice. *Human Resource Development International*, 26(4), 378-404. <https://doi.org/10.1080/13678868.2022.2124584>

Cho, Y., & Lester, J. (2023). A new design framework for innovative qualitative research in HRD. *Human Resource Development Review*, 22(2), 275-290. <https://doi.org/10.1177/15344843231170414>

Delello, J. A., McWhorter, R. R., Roberts, P. B., De Giuseppe, T., & Corona, F. (2022). The risks and rewards of collegiate esports: A multi-case study of gamers in the United States and Italy. *The International Journal of Gaming and Computer-Mediated Simulations*, 15(1), 1-22. <https://doi.org/10.4018/IJGMS.317115>

Han, S., Park, H., Yoo, S., & Lee, Y. (2023). A validation study of the Korean short version of TREO measurement\* (In Korean). *Journal of Corporate Education and Talent Research*, 25, 129-151. <https://www.kci.go.kr/kciportal/ci/sereArticleSearch/ciSereArtiView.kci?sereArticleSearchBean.artild=ART002972050>

Kuchinke, P., Cho, Y., Crocco, O. S., Cseh, M., Han, H., & McLean, G. N. (2022). Indigenous research in HRD: Perspectives and a call for contributions. *Human Resource Development Review*, 21(4), 374-390. <https://doi.org/10.1177/15344843221125837>

Wang, G. G., & Doty, D. H. (2022). Response to invited reaction 1 and 2: Theorizing human resource development in extended contexts. *Human Resource Development Review*, 21(4), 454-464. <https://doi.org/10.1177/15344843221131115>

Wang, G. G., & Doty, D. H. (2022). Theorizing human resource development practices in extended contexts. *Human Resource Development Review*, 21(4), 410-441. <https://doi.org/10.1177/15344843221130918>

Yoo, S., Joo, B.-K., & Noh, J. H. (2022). Team emergent states and team effectiveness: The roles of inclusive leadership and knowledge sharing. *Journal of Organizational Effectiveness: People and Performance*, 9(3), 353-371. <https://doi.org/10.1108/JOEPP-05-2021-0120>

Yoo, S., Lee, S., Kim, S., Jang, S., & Cho, D. (2022). Training and development investment and financial performance: The bidirectional relationship and the moderating effect of financial slack. *Human Resource Development Quarterly*, 33(2), 115-136. <https://doi.org/10.1002/hrdq.21449>

Yu, M., Jiao, Q., Wang, G. G., & Liu, Y. (2022). The threshold effect of commitment-oriented HRM practices on employee job performance: The role of employee age. *Employee Relations*, 44(6), 1372-1392. <https://doi.org/10.1108/ER-11-2020-0516>

Yu, M., Lin, H., Wang, G. G., Liu, Y., & Zheng, X. (2022). Is too much as bad as too little? The S-curve relationship between corporate philanthropy and employee performance. *Asia Pacific Journal of Management*, 39, 1511-1534. <https://doi.org/10.1007/s10490-021-09775-9>

## POSTER PRESENTATIONS

Jackie, L., Lotomia, A. N., Byun, S., Kulichyova, A., & Wang, G. G. (2023, March 1-4). The current status of political ideology education in higher education and its impacts on HRD in China and North Korea. In *The 2023 Academy of HRD International Research Conference*. Academy of HRD.

Lotomia, A. N., Kulichyova, A., Liu, J., Byun, S., & Wang, G. G. (2023, March 1-4). The party school phenomenon in China and North Korea and the mainstream HRD view: Implications for HRD theory development research. In *2023 Academy of HRD International Research Conference*. Academy of HRD.



# Human Resource Development

## (continued)

### PRESENTATIONS

Cho, Y., Alagaraja, M., & Anderson, V. (2023, March 1-4). Focus session: Teaching qualitative research methods: Challenges and opportunities. In 2023 AHRD International Research Conference in the Americas. AHRD.

Cho, Y., Alagaraja, M., Yoon, H. J., Davies, J., Hyatt, B., & Riojas, R. R. (2023, March 1-4). Workshop: Writing and publishing non-empirical research articles in human resource development review: Practical tips. In 2023 AHRD International Research Conference in the Americas. AHRD.

Cho, Y., Park, J., You, J., & Yoon, S. (2023, March 8-9). South Korean women leaders' resistance to their token status in the workplace. In Women in Leadership Forum 2023. California State University East Bay.

Cho, Y., Ghosh, R., Kim, S., & Garavan, T. (Eds.). (2023, June 7-9). Meet the Editors [Workshop]. In University Forum for HRD.

Kuchinke, P., Anderson, V., Byrd, M., Cho, Y., Lundgren, H., McLean, G. N., Poell, R., & Scott, C. (2023, March 1-4). Town hall: The status and future of HRD research. In 2023 AHRD International Research Conference in the Americas. AHRD.

Kuchinke, P., Cho, Y., Crocco, O., Cseh, M., Han, H., & McLean, G. N. (2023, March 1-4). Focus session: Indigenous research in HRD: A panel discussion. In 2023 AHRD International Research Conference in the Americas. AHRD.

Lundgren, H., Anderson, V., Carbery, R., Cho, Y., McLean, G. N., & Poell, R. (2023, June 7-9). Are we really serious about transformation? The role of HRD in a changing global context (Symposium). In University Forum for HRD.

McWhorter, R. R. (2022, September 10). Pay it forward: Creating memories for future generations, a qualitative research presentation. In 20th Annual East Texas Family History Fair.

Park, S.-H., Cho, Y., & Bong, H.-C. (2023, June 7-9). Full paper: Action learning for community development: A systematic review. In 2023 University Forum for HRD Conference. University Forum for HRD.

Park, S.-H., Cho, Y., & Bong, H.-C. (2023, June 7-9). What can we learn about action learning for community development from the lens of the UN's Sustainable Development Goals? In University Forum for HRD.

Russ-Eft, D., Alizadeh, A., Ardichvili, A., Cho, Y., Hughes, C., & Werner, J. M. (2023, March 1-4). Focus Session: Ethics and human resource development. In 2023 AHRD International Research Conference in the Americas. AHRD.

Wang, G. G., & Doty, D. H. (2022, August). Do accreditation/rankings for worldwide business schools make sense? The case of China. In Academy of Management 2022 Annual Conference. AOM.

Wang, G. G., Liu, J., Lotomia, A. N., Kulichyova, A., & Byun, S. (2023, March 1-4). HRD phenomena in non-mainstream contexts: Implications for HRD theory building research. In 2023 AHRD International Research Conference in the Americas. Academy of HRD.

Yoo, S. (2023, March 1-4). Individual autonomy and growth experience in healthcare project teams: Nonlinearity and contingency. In 2023 AHRD International Research Conference in the Americas. AHRD.

### PROCEEDINGS PUBLICATIONS

Wang, G. G., & S, C. (2023, March). HRD ethics and morality in different societal contexts with identical culture tradition: The Cases of China and Taiwan. The 2023 Academy of HRD International Research Conference.

Yoo, S., Lee, Y., Lee, Y., & Bae, T. J. (2022). Entrepreneurial passion and team performance: Leader passion and passion diversity as moderators. *Academy of Management Proceedings*, 2022(1), Article 1. <https://doi.org/10.5465/AMBPP.2022.12477abstract>



# Management and Marketing

### JOURNAL PUBLICATIONS

Al-Shammari, M., Bannerjee, S., Caldas, M. P., & Swimberghe, K. R. (2023). The differential impact of CEO tenure on the firm's external and internal CSR: The moderating effects of firm's visibility and slack. *Business Ethics, the Environment and Responsibility*, 32(3), 961-985. <https://doi.org/10.1111/beer.12548>

Amrouche, N., Pei, Z., & Yan, R. (2023). Service strategies and channel coordination in the age of e-commerce. *Expert Systems with Applications*, 214, Article 119135. <https://doi.org/10.1016/j.eswa.2022.119135>

Byun, K.-A., Hong, J. (Jenny), & James, K. (2023). When does a goal-appeal match affect customer satisfaction? Examining the work and play context. *Journal of Business Research*, 158, Article 113666. <https://doi.org/10.1016/j.jbusres.2023.113666>

Cater, J. J., James, K. W., Roland, K. L., Camp, K. M., & Young, M. (2022). The impact of Mexican culture on the human resource management practices of Mexican-American family firms. *International Journal of Entrepreneurship and Small Business*, 45(4), 518-550. <https://doi.org/10.1504/IJESB.2022.122662>

Cater, J., & Young, M. (2022). Successfully mentoring daughters in family firms. *Journal of Developmental Entrepreneurship*, 27(3). <https://doi.org/10.1142/S1084946722500170>

Cater, J., & Young, M. (2022). Successfully preparing daughters as successors in family firms. *Journal of Developmental Entrepreneurship*, 27(3). <https://doi.org/10.1142/S1084946722500170>

Cater, J., Young, M., Al-Shammari, M., & James, K. W. (2022). Re-exploring entrepreneurial intentions and personality attributes during a pandemic. *Journal of International Education in Business*, 15(2), 311-330. <https://doi.org/10.1108/JIEB-04-2021-0050>

Cater, J., Young, M., & Hua, L. (2023). Examining the entrepreneurial mindset and entrepreneurial intentions. *Journal of Applied Business and Economics*, 25(4), 30-46. <https://doi.org/10.33423/jabe.v25i4.6339>

Fagan, M. H., & Vidiyala, S. (2022). Analytics use intention: The role of STEM and software attitudes. *Journal of Computer Information Systems*, 63(5), 1112-1123. <https://doi.org/10.1080/08874417.2022.2125917>

Gopalakrishna Remani, V., Byun, K.-A., & Doty, H. D. (2022). The impact of top management attributes on the level of sustainability adoption and firm performance. *Business Strategy and the Environment*, 31(7), 2964-2977. <https://doi.org/10.1002/bse.3058>

Guo, W., Hancock, J., Cooper, D., & Caldas, M. P. (2023). Job autonomy and employee burnout: The moderating role of power distance orientation. *European Journal of Work and Organizational Psychology*, 32(1), 79-94. <https://doi.org/10.1080/1359432X.2022.2101451>

Hong, J. (Jenny), Ahn, S., Camp, K. M., & James, K. W. (2022). The role of consumer mindsets to reduce health-related stress. *Journal of Consumer Behaviour*, 21(4), 773-785. <https://doi.org/10.1002/cb.2036>

Maryon, T., Dubre, V., Elliott, K. S., Escareno, J., Standridge, E., Fagan, M. H., & Lieneck, C. (2022). COVID-19 academic integrity violations and trends: A rapid review. *Education Sciences*, 12(12), 901. <https://doi.org/10.3390/educsci12120901>

Zhang, Y., Hua, L., Jiao, Y., Zhang, J., & Saini, R. (2023). More than watching: An empirical and experimental examination on the impacts of live streaming user-generated video consumption. *Information & Management*, 60(3), Article 103771. <https://doi.org/10.1016/j.im.2023.103771>



# Management and Marketing (continued)

## PRESENTATIONS

Byun, K.-A., Al-Shammari, M., & James, K. W. (2023, August 4-6). How do narcissistic CEOs care about customers? The moderating roles of CEO tenure and internal social capital. In AMA Summer 2023. American Marketing Association.

Cater, J., Young, M., & Lei, H. (2023, June 23-24). Ethnic minorities and entrepreneurial intentions in the context of the covid-19. In Transitional Third Annual Ewing Marion Kauffman Foundation Sponsored Hybrid Colloquium on Transitional Entrepreneur. Old Dominion University.

Hong, J. (Jenny), & Byun, K.-A. (2023, July 20-23). From beauty premium to beauty penalty: Role of emotional evaluation under product failure. In Global Marketing Conference 2023. Global Alliance of Marketing & Management Associations.

Kingsley, M., Ostermeier, K., Cooper, D., Caldas, M. P., & Stoverink, A. (2023, August 4-8). No worker is an island: The importance of community support in mitigating the effects of COVID-19. In Academy of Management (AoM) Annual Meetings. Academy of Management (AoM).

Kuga, L., & Caldas, M. P. (2023, August 4-8). From disoriented to focused: Career decidedness profiles from a grounded theory study. In Academy of Management Annual Meetings. Academy of Management (AoM).

Ostermeier, K., Cooper, D., Caldas, M. P., & Malik, A. M. (2022, October 14-15). The United States and Brazil: Exploring predictors and moderators of burnout during COVID-19. In Academy of International Business - US Northeast (AIB-US NE) Annual Meeting. Academy of International Business - US Northeast (AIB-US NE).

Young, M., & Cater, J. (2023, April). Marketing research. In Veteran Entrepreneurship Bootcamp. Tyler Junior College.

Young, M., & Cater, J. (2023, April). Veterans as emerging entrepreneurs in economic development: Intentions, challenges, and impact. In East Texas Research Conference, University of Texas at Tyler.

Young, M., Cater, J., Hua, L., & Morgan, T. (2023, April). Ethnic minority entrepreneurship: Intentions, challenges and barriers. In East Texas Research Conference, University of Texas at Tyler.

Young, M., & Cater, J. (2023, June 23-24). Women veterans as potential entrepreneurs: Learned skills, challenges, and sources of assistance. In Transitional Third Annual Ewing Marion Kauffman Foundation Sponsored Hybrid Colloquium on Transitional Entrepreneur. Old Dominion University.



## Management and Marketing (continued)

### PROCEEDINGS PUBLICATIONS

Gopalakrishna Remani, V. (2022, Autumn). Innovative ways of using technology efficiently to enhance student participation and learning. DSI 2021.

Hong, J. (Jenny), & Byun, K.-A. (2023). From beauty premium to beauty penalty: Role of emotional evaluation under product failure. 2023 Global Marketing Conference, 731-732.

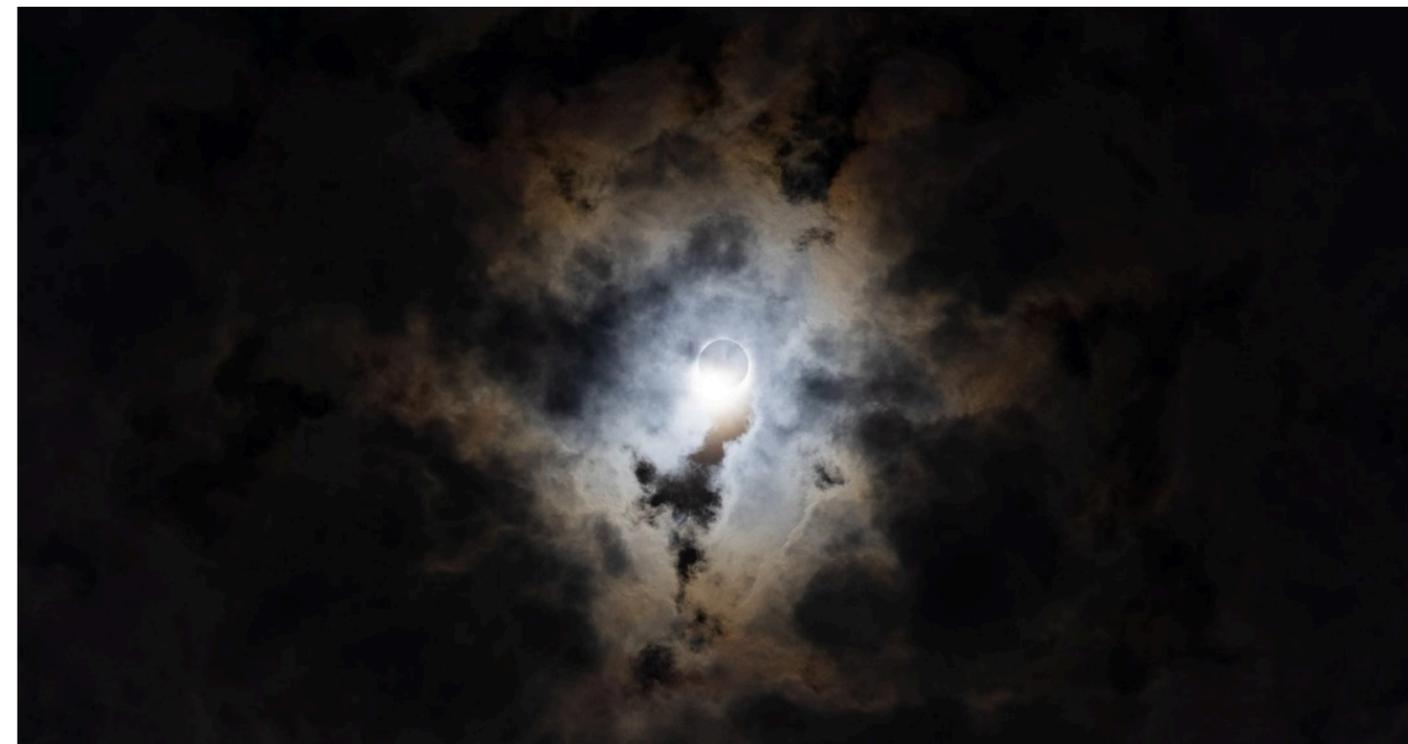
## Technology

### JOURNAL PUBLICATIONS

Ali, M. (2022). Multiple path particle dosimetry modeling employability to complement in-vitro ultrafine particle toxicity study. Current Trends in Engineering Science, 2, Article 2.

### PRESENTATIONS

Ali, M. (2022, November). Electromechanical effects on micro and nano particles generated from drug delivery devices and their implications in flow and deposition efficiency. In ATMAE Annual Conference 2022. Association of Technology, Management and Applied Engineering.





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