**Curriculum vitae**

Dr. rer. Nat. Katrin Kellner

Department of Biology

The University of Texas at Tyler

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Tyler, TX 75799, USA

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**Professional Experience**

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| --- | --- | --- |
| 8/2016 – present(FMLA Fall 2017)  | Assistant Professor  | The University of Texas at Tyler  |
| 1/2013 – 7/2016 | Research Assistant ProfessorAffiliated Researcher | The University of Texas at TylerThe University of Texas at Austin |
| 1/2010 – 12/2012 | Post-doctoral Fellow | The University of Texas at Austin |
| 8/2009 – 12/2009 | Post-doctoral Fellow | University of Regensburg, Germany |
| 10/2005 – 5/2009 | Graduate Research Assistant | University of Regensburg, Germany |

**Education**

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| --- | --- | --- |
| 2005 – 2009  | Dr. rer. Nat. (PhD equivalent) | University of Regensburg, Germany; Evolution, Genetics, Behavior |
| 2004 – 2005 | Diploma in Biology (MS equivalent) | University of Regensburg, Germany |
| 1999 - 2005 | Studies in Biology | University of Regensburg, Germany, with major exams in Zoology, Plant Biology and Genetics |

**Teaching Experience**

Genetics Lecture and Lab

Graduate Seminars in Molecular Ecology

General Biology I Lecture and Lab

General Biology II Lecture

Entomology Lab

Workshops in Microbial Ecology, Next generation sequencing methods and Bioinformatics, Animal Behavior, Molecular Ecology and Evolution, Conservation Genetics

**Refereed Publications**

h-index 12

<https://scholar.google.com/citations?user=7865V7MAAAAJ&hl=de>

***Since Appointment to UT Tyler as Assistant Professor***

Book Chapter

1. Heinze, J., **Kellner, K**., & Seal, J. N. (2017). Sociality in Ants. In *Comparative Social Evolution*. Edinburgh, United Kingdom: Cambridge University Press.

Journal Articles

1. Matthews, A., **Kellner, K**., & Seal, J. N. (2021). Male-biased dispersal in a female dispersed fungus-gardening ant symbiosis. *Ecology and Evolution, 11* (2307–2320)
2. Matthews, A., Rowan\*, C., Stone\*, C., **Kellner, K**., & Seal, J. N. (2020). Development, characterization, and cross-amplification of polymorphic microsatellite markers for North American *Trachymyrmex* and *Mycetomoellerius* ants. *BMC Research Notes*, *13*, 173.
3. Luiso\*, J., **Kellner, K**., Matthews, A., Mueller, U., & Seal, J. N. (2020). High diversity and multiple invasions to North America by fungi grown by the northern- most *Trachymyrmex* and *Mycetomoellerius* ant species. *Fungal Ecology*, *44* (100878).
4. Senula\*, S., Banta, J. A., Mueller, U. G., Seal, J. N., & **Kellner, K**. (2019). Species distribution models of eight North American *Trachymyrmex* (Hymenoptera: Formicidae) species. *Journal of Insect Science, 19* (24)
5. Smith, C., Weber, J., Mikheyev, A., Roces, F., Bollazi, M., **Kellner, K**., Seal, J. & Mueller, U. (2019). Landscape genomics of an obligate mutualism: discordant population structures between a leafcutter-ant and its fungal cultivars. *Molecular Ecology*, *28*, 2831–2845.
6. **Kellner, K**., Kardish, M., Seal, J., Linksvayer, T. A., & Mueller, U. G. (2018). Symbiont-mediated host-parasite dynamics in a fungus-gardening ant. *Microbial Ecology*, *76*, 530–543.
7. DeMilto\*, A., Rouquette, M., Mueller, U., **Kellner, K**., & Seal, J. (2017). Effects of substrate, ant and fungal species on plant fiber degradation in a fungus-gardening ant symbiosis. *Journal of Insect Physiology*, *98*, 301–308.

**In Progress**

1. Beigel\*, K., Matthews, A., **Kellner, K**., Pawlik, C., Greenwold, M. J., & Seal, J. N. (2021). Cophylogenetic analyses of ant-fungal specificity: “One to one with some exceptions.” *Molecular Ecology*. **In Review.**
2. Kubik\*, T., Barrett\*, B., Mueller, U., Kardish, M., & **Kellner, K**. Ant genotype contributes to nestmate recognition in the asexual fungus-farming ant, Mycocepurus smithii (Hymenoptera: Formicidae). *Behavioral Ecology and Sociobiology*. **In Review**
3. Senula, S., Seal, J. N., Mueller, U., & **Kellner, K.** (2021). Cold adaptations along a range limit: redundancy in an obligate symbiosis. *Functional Ecology*.
4. Allert\*, M., Seal, J. N., Mueller, U. G., & **Kellner, K**. (2021). Symbiont Partner choice and fidelity through ant derived cues in the fungus farming ant mutualism. *Behavioral Ecology and Sociobiology*.
5. Allert\*, M., Bringhurst\*, B., Greenwold, M. J., **Kellner, K**., & Seal, J. N. (2021). Drivers of bacterial diversity of *Trachymyrmex* and *Mycetomoellerius* ants. *Microbial Ecology*.
6. Reeder\*, S., **Kellner, K**., Ford, N., Williams, L. R., Williams, M., Dickson, J., & Banta, J. A. (2021). Conservation Status and Population Genetics of Imperiled Unionid Populations of *Potamilus Amphichaenus* and *Pleurobema Ridellii* in East Texas. Hydrobiologia.
7. **Kellner, K,** Mueller, UG & TA Linksvayer: Experimentally disentangling a tangled coevolutionary tree: intergenomic epistasis for fitness in an ant-fungus mutualism
8. **Kellner, K.** & Kwapich, C. Harvester ants use Actinomycetes to sanitize their seed deposits. **In prep.**

***\* denotes student author***

***Before Appointment as Assistant Professor to UT Tyler***

1. **Kellner, K,** Ishak, HD,Linksvayer, TA & UG Mueller (2015) Bacterial community composition and diversity in an ancestral ant fungus symbiosis (*FEMS Microbiology Ecology***; Editor’s Choice;** DOI: http://dx.doi.org/10.1093/femsec/fiv073)
2. **Kellner, K**, Fernández-Marín, H, Ishak, HD, Sen, R, Linksvayer, TA & UG Mueller (2013) Coevolutionary patterns and diversification of ant-fungus associations in the asexual fungus-farming ant *Mycocepurus smithii* in Panama*. Journal of Evolutionary Biology* 26: 1353 – 1362.
3. **Kellner, K**, Seal, JN & J Heinze (2013) Sex at the margins: parthenogenesis vs. facultative and obligate sex in a neotropical ant. *Journal of Evolutionary Biology* 26: 108 – 117.
4. Mc Frederick, Q, Cannone, JJ, Gutell, RR**, Kellner, K**, Plowes, RM & UG Mueller (2013) Specificity between Lactobacilli and Hymenoptera hosts is the exception rather than the rule. *Applied and Environmental Microbiology* 76: 1803 – 1812
5. Ishak, HD, Plowes, R, Sen, R**, Kellner, K**, Meyer, E, Estrada, DA, Dowd, SE, & UG Mueller (2011) Bacterial diversity in *Solenopsis invicta* and *Solenopsis geminata* ant colonies characterized by 16S amplicon 454 pyrosequencing. *Microbial Ecology* 61: 821 – 831.
6. **Kellner, K** & Heinze, J (2011) Absence of nepotism in genetically heterogeneous colonies of a clonal ant. *Ethology* 117: 556 – 564.
7. Seal, JN, **Kellner, K**, Trindl, A & Heinze, J (2011) Phylogeography of the parthenogenic ant, *Platythyrea punctata*: highly successful colonization of the West Indies by a poor disperser. *Journal of Biogeography* 38: 868 – 882.
8. **Kellner, K** & Heinze, J (2011) Mechanism of facultative parthenogenesis in the ant *Platythyrea punctata*. *Evolutionary Ecology*25: 77 - 89.
9. **Kellner, K**, Barth, B\* & Heinze, J (2010) Colony fusion causes within-colony variation in a parthenogenetic ant.*Behavioral Ecology and Sociobiology*, 64:737 - 746.
10. Barth, B\*, **Kellner, K** & Heinze, J (2010) The police are not the army: context-dependent aggressiveness in a clonal ant. *Biology Letters*, 6: 329 - 332.
11. Brunner, Eǂ, **Kellner, K**ǂ & Heinze, J (2009) Policing and dominance behavior in the parthenogenetic ant *Platythyrea punctata*. *Animal Behavior*, 78:1427-1431.
12. **Kellner, K,** Trindl, A, Heinze, J & P D'Ettorre (2007) Polygyny and polyandry in small insect societies. *Molecular Ecology*, 16: 2363 - 2369.
13. D'Ettorre, P, **Kellner, K**, Delabie, JHC & J Heinze (2005) Number of queens in founding associations of the ponerine ant Pachycondyla villosa. *Insectes Sociaux*, 52: 327-332.

\***student author; ǂ shared first authorship**

**Conference Papers**

***Since Appointment to UT Tyler as Assistant Professor***

Oral Presentation

1. Senula\*, S., Seal, J. N., & **Kellner, K**. (2018, November). *Experimental cold-tolerance of Trachymyrmex septentrionalis and its symbiotic fungal cultivar*. *Annual Meeting of the Entomological Society of America*. Vancouver, BC, Canada.
2. Seal, J. N., **Kellner, K**., & Matthews, A. (2019, November). *Male-biased dispersal in a female-dispersed symbiosis*. *Annual Meeting of the Entomological Society of America*. St. Louis, MO
3. Senula\*, S., Seal, J. N., & **Kellner, K**. (2018, November). *Experimental cold-tolerance of Trachymyrmex septentrionalis and its symbiotic fungal cultivar*. *Annual Meeting of the Entomological Society of America*. Vancouver, BC, Canada.
4. Allert\*, M., **Kellner, K**., Hertweck, K. L., & Seal, J. N. (2016). *Examining the microbiomes of two sympatric ants, Trachymyrmex septentrionalis and T. turrifex.* *XXV International Congress of Entomology*. Orlando Florida.
5. **Kellner, K**. (2016). *Symbiont mediated aging and fecundity in a fungus farming ant system*. *European IUSSI Meeting*. Helsinki, Finland.
6. Allert\*, A., **Kellner, K**., & Seal, J. N. (2016). *Examining the microbiomes of two sympatric ants, Trachymyrmex septentrionalis and T. turrifex.* *American Society for Microbiology TX Branch conference*. Dallas, Texas.

Poster Presentation

1. Rowan\*, C., & **Kellner, K**. (2020). *Microbiome Analysis of the fungus gardening ant Trachymyrmex arizonensis*. *Annual Meeting of the Entomological Society of America*. Virtual.
2. **Kellner, K**., & Kwapich, C. (2020). *Microbiomes of Harvester Ants -Do Ants use Biological Control to protect their Seed Deposits?* *Annual Meeting of the Entomological Society of America*. Virtual.
3. **Kellner, K**., & Seal, J. N. (2019). *Partner Choice and Fidelity in Fungus Farming Ants*. *Annual Meeting of the Entomological Society of America*. St. Louis, MO.
4. Rowan\*, C., Stone\*, C., Mathews, A., & **Kellner, K.** (2019). *Population Genetics of P. comanche using microsatellites*. *East Texas Research Conference*. UT Tyler.
5. Rowan\*, C., Stone\*, C., Mathews, A., & **Kellner, K.** (2019). *Population Genetics of P. comanche using microsatellites*. *Lyceum*. UT Tyler.
6. Senula\*, S., Seal, J. N., & **Kellner, K.** (2018). *Experimental cold-tolerance of Trachymyrmex septentrionalis and its symbiotic fungal cultivar*. *Annual Meeting of the Entomological Society of America*. Vancouver, Canada.
7. Senula\*, S., Seal, J. N., Banta, J. A., & **Kellner, K.** (2018). *Ecological niche models of eight Trachymyrmex species*. *Southwestern Association of Naturalists Annual Meeting*. San Marcos, TX.
8. Romo\*, R., Seal, J. N., Banta, J. A., Hertweck, K., & **Kellner, K.** (2018). *Investigating the Life History of Pogonomyrmex comanche*. *Southwestern Association of Naturalists Annual Meeting*. San Marcos, TX.
9. Romo\*, R., Seal, J. N., Hertweck, K. L., & **Kellner, K**. (2017). *Population Genetics of the State Listed Comanche Harvester Ant, Pogonomyrmex comanche*. *Annual Meeting of the Society for Ecological Restoration, Texas Chapter*. Denton, Texas.
10. Senula\*, S., Seal, J. N., Banta, J. A., Mueller, U., & **Kellner, K.** (2017). *Ecological niche models of eight Trachymyrmex species*. *Annual Meeting of the Society for Ecological Restoration, Texas Chapter*. Denton, Texas.
11. Ortiz\*, A., Banta, J. A., Seal, J. N., Mueller, U., & **Kellner, K.** (2015). *Habitat suitability and distribution patterns of the North American fungus-farming ant Trachymyrmex septentrionalis.* *Annual Meeting of the Entomological Society of America*. Minneapolis, Minnesota.
12. Seal, J. N., & **Kellner, K.** (2014). *Don’t Forget About the Ants!* *Annual Meeting of the Society for Ecological Restoration, Texas Chapter*. Alpine, Texas.

**\*denotes student author/presenter**

***Before Appointment to UT Tyler as Assistant Professor***

Oral and Poster Presentations

1. 2015 Entomological Society of America Annual Meeting, Minneapolis, MN; *Disease ecology of the symbiosis of a lower fungus-farming ant and its coevolved parasite.*
2. 2015 Congress of the International Symbiosis Society, Lisbon, Portugal; *Bacterial community composition and diversity in an ancestral ant-fungus symbiosis.*
3. 2013 Entomological Society of America Annual Meeting, Austin, TX; *Disentangling ant and fungal genetic components of the asexual fungus-farming ant Mycocepurus smithii: A cross-fostering experiment.*
4. 2012 North American Meeting of the International Union for the Study of Social Insects (IUSSI), North Carolina; *Bacterial communities in Mycocepurus smithii ants, fungus garden and adjunct soil: evidence for symbiont recruitment?*
5. 2010 International Congress of the International Union for the Study of Social Insects, Copenhagen, Denmark; *Bacterial diversity in Solenopsis invicta and Solenopsis geminata ant colonies characterized by 16S amplicon 454 pyrosequencing*
6. 2009 IUSSI meeting, Fraueninsel, Germany; *Reproductive succession in a thelytokous ant revealed by social network analysis; financial support by “Freunde der Universität”;*
7. 2009 Annual German Zoological Society (DZG), Regensburg; *It’s every ant for herself – selfish and non-nepotistic behavior among and within clone lineages in a thelytokous ant*. *DZG poster award for best poster in Behavioral Biology;*
8. 2008 North American IUSSI, *Puerto Rico; The biogeography of sex in the facultative thelytokous ant Platythyrea punctata.*
9. 2008 ICE (International Congress of Entomology), Durban, South Africa; *We are one but not the same – Population - and Colony structure of the thelytokous ant Platythyrea punctata in Puerto Rico*
10. 2007 IUSSI meeting, Schwerte, Germany; *Mechanism of thelytokous parthenogenesis and colony structure in Platythyrea punctata*
11. 2007 Central European Workshop in Myrmecology, Szeged, Hungary; *Policing and dominance behavior in the clonal ant Platythyrea punctata*
12. 2006 Annual German Zoological Society (DZG) meeting, Münster, Germany; Policing and dominance behavior in the clonal ant *Platythyrea punctata*
13. 2006 International Congress of the International Union for the Study of Social Insects Washington DC, USA; Policing in the clonal ant *Platythyrea punctata*
14. 2005 IUSSI meeting, St. Petersburg, Russia; *financial support by “Freunde der Universität”;* The metamorphosis of the queen’s chemical signature in the ant *Pachycondyla villosa*
15. 2005 Central European Workshop in Myrmecology, Budweis, Czech Republic; The metamorphosis of the queen’s chemical signature in the ant *Pachycondyla villosa*
16. 2005 IUSSI meeting, Halle, Germany; Sociogenetics of two sister species in the ponerine ant genus *Pachycondyla*
17. 2005 INSECTS - Closing symposium of the EU research training network, Helsingør, Denmark; Fluidity of founding queen associations in *Pachycondyla villosa* ants

**Funding and Awards**

***Total Funding since coming to UT Tyler $339,941.18***

Federal

1. **National Science Foundation**, Division of Environmental Biology, Evolutionary Ecology (DEB-1354629). 2014 – 2017. Collaborative Research: Evolution of adaptive synergism between mutualistic partners during range-limit evolution. **PI Katrin Kellner** (Total Award, $417,837, split among several institutions, my (UT Tyler) share: $ 68,921).
2. **REU Supplement** for DEB-1354629. 2015. Ecological Niche modeling of the North American fungus farming ant *Trachymyrmex septentrionalis*.**PI Katrin Kellner**; CoPI Banta ($6,250).
3. **REU Supplement** for DEB-1354629. 2016. Population genetics of fungal symbionts of two sympatric fungus growing ants: Evidence for symbiont sharing? **PI Katrin Kellner** ($6,000)

State

1. **Texas Army National Guard**. 2016. Population genetics of the red harvester ant *P. comanche*, **PI Katrin Kellner** ($13,000).
2. The distribution and abundance of Texas Heelsplitter (*Potamilus amphichaenus*; Bivalvia: Unionidae), a rare east Texas endemic freshwater mussel, Funded by **Comptroller of the State of Texas** (July 1, 2019), awarded July 1, 2019 ($110,383.00), Completed, Spring 2021, PI Joshua Banta with CoPI Lance Williams, CoPI Neil Ford, **CoPI Katrin Kellner**, CoPI Marsha Williams.

**My contribution**: Wrote the genetic barcoding part of the proposal; trained students and assistants in the lab in molecular genetic methods; collected DNA barcoding data to identify mussel specimen; trained students in data analyses; catalogued and archived DNA specimen for long term storage.

1. The distribution and abundance of Louisiana Pigtoe (*Pleurobema riddellii*; Bivalvia: Unionidae), a rare east Texas endemic freshwater mussel, Funded by **Texas Comptroller of Public Accounts** (August 26, 2019), awarded August 26, 2019 ($67,216.00), Completed, Spring 2021, PI Joshua Banta with CoPI Lance Williams, CoPI Neil Ford, **CoPI Katrin Kellner**, CoPI Marsha Williams.

**My contribution**: Wrote the genetic barcoding part of the proposal; trained students and assistants in the lab in molecular genetic methods; collected DNA barcoding data to identify mussel specimen; trained students in data analyses; catalogued and archived DNA specimen for long term storage.

Institutional

1. Microbiome work on *Pogonomyrmex comanche* seeds and ants, funded through the Office o Sponsored Research (2019), **New Faculty Development Grant**, ($10,000.00), Funded - In Progress, Fall 2019, **PI Katrin Kellner.**

Other/ Grants from the Texas Memorial Museum/Texas Ecolab

***Totaling around $58,171***

1. The experimental analysis of bacterial community structure in an ant-fungal symbiosis, Funded by Texas Memorial Museum/ Texas Ecolab (February 1, 2020) ($5,257.00), PI Katrin Kellner.
2. Microbial Communities of Texas ants, Funded by Texas Memorial Museum/ Texas Ecolab (February 1, 2019) ($6,050.00), PI Katrin Kellner
3. Spatial diversity of microbial communities of two fungus-gardening ants of Texas, Funded by Texas Memorial Museum/ Texas Ecolab (February 1, 2018) ($8,815.17), PI Katrin Kellner.
4. Spatial diversity of microbial communities of two fungus-gardening ants of Texas, Funded by Texas Memorial Museum/ Texas Ecolab (April 1, 2017 - March 31, 2019) ($12,062.82), PI Katrin Kellner.
5. Phylogeographic structure of the microbiomes associated with two fungus-gardening ants of Texas., Funded by Texas Memorial Museum/ Texas Ecolab (April 1, 2016 - March 31, 2018) ($14,062.82), PI Katrin Kellner.
6. Dispersal and mating biology of an ant in Central Texas, Funded by Texas Memorial Museum/ Texas Ecolab (January 1, 2015) ($5,923.37), PI Katrin Kellner.
7. Texas Museum of Natural Science (Texas Ecolab). (Fall 2013). Population genetics of the red harvester ants *Pogonomyrmex barbatus* and *P. comanche* in Texas.PI Katrin Kellner ($6,000).

## Submitted for Review

Collaborative Research: RUI: The influence of ants on regional-scale soil carbon dynamics, National Science Foundation, Division of Environmental Biology (March 1, 2022 - March 31, 2025) ($696,488.00), Submitted for Review, Spring 2021, **CoPI Katrin Kellner** with PI Jon Seal, CoPI Matthew Greenwold.

Submitted - Not Funded

1. Collaborative Research: RUI: Awake, sleeping beauties! Soil microbial community regulation by ecosystem engineers, National Science Foundation (April 1, 2018 - March 31, 2019) ($495,573.00), Submitted - Not Funded, Spring 2018, **CoPI Katrin Kellner** with PI Jon Seal
2. Collaborative Research: RUI: The influence of ants on regional-scale soil carbon dynamics, National Science Foundation, Division of Environmental Biology (April 1, 2021 - March 31, 2025) ($631,438.00), Submitted - Not Funded, Spring 2020, **CoPI Katrin Kellner** (50%) with PI Jon Seal (50%)
3. Preliminary Proposal: Collaborative Research: Biogenic structures of soil ecosystem engineers as drivers of biodiversity and belowground community assembly, National Science Foundation (January 6, 2016), Submitted – Invited but Not Funded, Spring 2016, **CoPI Katrin Kellner** with PI Jon Seal
4. Preliminary Proposal: SG: RUI: Putting off the inevitable: The role of host symbiont synergism on aging in an asexual ant society, National Science Foundation (January 6, 2017), Submitted - Not Funded, Spring 2017, **PI Katrin Kellner**
5. Preliminary Proposal: SG: RUI: Putting off the inevitable: The role of host symbiont synergism on aging in an asexual society, national Science Foundation (January 6, 2016), Submitted - Not Funded, Spring 2016, **PI Katrin Kellner**
6. Open Educational Textbook: Genetics and Cell Biology Laboratory Manuals (August 20, 2018) ($24,203.68), Submitted - Not Funded, Fall 2018, **CoPI Katrin Kellner** with CoPI Brent Bill
7. NRT-IGE: Professional learning and curriculum integration for bioinformatics training in reproducible research skills, National Science Foundation (January 1, 2017) ($365,057.00), Submitted - Not Funded, Fall 2016, **CoPI Katrin Kellner** with PI Colleen Swain and CoPi Kate Hertweck
8. National Science Foundation, Division of Biological Infrastructure, Major Research Instrumentation. MRI: Acquisition of a high performance computing cluster for bioinformatics at UT Tyler, (MRI-1531484) ($200,000). **Co-PI Katrin Kellner**, with Co-PI Jon Seal and PI Kate Hertweck
9. Sabine River Basin Native Mussel Survey, RFP #20-1001, Sabine River Authority of Texas (April 1, 2020) ($185,341.00), Submitted - Not Funded, Spring 2020, PI Joshua Banta with CoPI Neil Ford, **CoPI Katrin Kellner**, CoPI Lance Williams, CoPI Marsha Williams
10. Status of the Texas emerald dragonfly, TPWD State Wildlife Grants (September 1, 2020), Submitted - Not Funded, Spring 2020, PI Lance Williams with CoPI Marsha Williams, **CoPI Katrin Kellner**

**Student Advising and Mentoring**

Current Graduate Students

1. Chase Rowan, M. S. Biology, expected Summer 2021 Comparisons of field and lab maintained microbiomes of two fungus-farming ant species and development of bacterial PCR primers.
2. Schi-Lee Smith, M. S. Biology, expected Spring 2023 Surveying of cray fish species in Texas using DNA barcoding from specimen, soil and eDNA samples.

Completed Graduate Students

1. Rachel Romo, M. S. Biology, 2018 Mating frequencies and ecological niche modelling of harvester ant *Pogonomyrmex comanche.*
2. Sarah Senula, M. S. Biology, 2019 Cold adaptation and ecological niche modeling in an obligate ant fungus symbiosis.

Co-Chaired Completed Graduate Students

1. Andrea Ortiz, M. S. Biology, 2017 Polyploidy and hybridization have a role in plant distribution in the United States: A Bioinformatic Study. I Co-chaired Andrea Ortiz graduate committee, and provided funding for a Research Assistantship for two semesters.

Graduate Student’s Committee Member

1. Mattea Allert, M. S. Biology, 2017
2. Katherine Beigel, M. S. Biology, 2020
3. Blake Bringhurst, M. S. Biology, expected 2021
4. Nathan Schubert, M. S. Biology, expected 2022
5. Sarah Reeder, M. S. Biology, 2020
6. Marissa Netti, M. S. Biology, expected 2022

Undergraduate Students in My Lab

1. Cynthia Ontiveros, UT System LSAMP recipient 2015
2. William Furlough, UT System LSAMP recipient 2015
3. Leighanna Mindt, UT System LSAMP recipient 2016
4. Joseph Luiso, UT System LSAMP recipient 2016
5. Andrea Ortiz, NSF-REU recipient 2016
6. Andrew Parker, NSF-REU recipient 2017
7. Colby Stone, Undergraduate Research Assistant, 2018-2019
8. Chase Rowan, Undergraduate Research Assistant, 2018-2019
9. Kimberly Jackson, Undergraduate Research Assistant, 2019
10. Schi-Lee Smith, Undergraduate Research Assistant, 2021

**Professional Service**

***Reviewer***

Frontiers in Microbiology, Insects, Ecosphere, BMC Microbiology, Fems Microbial Ecology, Insect Sciences, Molecular Ecology Resources, Journal of Insect Science, Antonie van Leuwenhook, Peer J, Molecular Ecology, Microbiology Open, Insectes Sociaux, Behavioral Ecology and Sociobiology, Biological Journal of the Linnean Society, Naturwissenschaften, Animal Behavior.

Topic Editor for Insects.

***Professional Memberships***

IUSSI International Union for the Study of Social Insects (North American Section)

ESA (Entomological Society of America)

DZG (Deutsche Zoologische Gesellschaft – German Zoological Society)

ANTS of TEXAS (<http://texasants.blogspot.com/>)

***Membership on Committees***

University

1. Member of the Traffic and Parking Ticket Appeals Committee (Fall 2016 – Fall 2017)
2. Member CAS Governance Committee (Fall 2019 – Spring 2021)
3. Judge for the UT Tyler Honors College Lyceum Spring 2017 and Spring 2019

Biology Department

1. **Chair** of the Graduate Student Affairs Committee (2019 - ongoing)
2. Member of the Graduate Student Affairs Committee (2018 – 2019 )
3. Member of the Core Curriculum Committee (2016 – 2017)
4. Member of the Core Courses Assessment Committee (2016 – 2017 )
5. Member of the Cell and Genetics SLO (Student Learning Objectives) Study Group (Fall 2017)
6. Member of the Search Committee for faculty position (bioinformatics) (2018-2019)
7. Member of the Search Committee for faculty position (physiology) (2018-2019)
8. An active participant in the National Science Foundation Lois Stokes Alliance for Minority Participation (LSAMP) Summer Research Academy (SRA) at UT-Tyler
9. An active Participant in the East Texas Research Conference
10. Member of the organizing committee for Darwin Day in Tyler Texas, an annual event, 2013 – Current.
11. Member of the organizing committee for Earth Day at UT Tyler, an annual event

**Invited Seminars**

1. Department of Biology, University of Texas at Tyler, Texas (2016)
2. Department of Biology, University of Louisville, Kentucky (2016)
3. Department of Biological Sciences, Florida International University, Florida (2014)
4. Department of Biological Sciences, University of Texas at Brownsville, Texas (2014)
5. Department of Biology, University of Texas at Tyler, Texas (2013)

**In the News**

1. 2019 Interview with Carl Zimmer/New York Times

<https://www.nytimes.com/2019/09/26/science/ants-fungus-antibiotic-resistance.html?rref=collection%2Fbyline%2Fcarl-zimmer&action=click&contentCollection=undefined&region=stream&module=stream_unit&version=latest&contentPlacement=2&pgtype=collection>

1. 2016 LSAMP Students in the News/ Palestine Herald

<https://www.palestineherald.com/education/ut-tyler-2016-lsamp-summer-research-academy-underway/article_865b10ae-3709-11e6-a64f-b3ed645fe014.html>

1. 2014 NSF Award Interview/Palestine Herald

<https://www.palestineherald.com/news/ut-tyler-awarded-national-science-foundation-grant-to-study-leafcutter-ants/article_823fea3c-3975-11e4-9759-0bbe2afc4818.html>