Christina M. Graves	Curriculum Vitae (updated 2023)
The University of Texas at Tyler	(903) 565-5839
Department of Mathematics	cgraves@uttyler.edu
3900 University Blvd	
Tyler, TX 75799	
Education	
Ph.D. in Mathematics	2009
Syracuse University, Syracuse, NY	
- Advisor: Jack Graver	
- Certificate in University Teaching	
Master of Science in Mathematics	2005
Syracuse University, Syracuse, NY	
Bachelor of Science in Mathematics and Computer Science	2002
Eastern Illinois University, Charleston, IL - Summa Cum Laude	
- University Honors and Departmental Honors	
Chiversity Tronors and Departmental Tronors	
Employment	
Distinguished Teaching Professor, <i>The University of Texas at Tyler</i>	2023-present
Professor, The University of Texas at Tyler	2018–2023
Associate Professor, The University of Texas at Tyler	2015–2018
Assistant Professor, The University of Texas at Tyler	2009–2015
Teaching Assistant, Syracuse University	2003–2009
Honors	
UT Tyler Distinguished Faculty Fellow	
UT Tyler Academy of Distinguished Teachers Founding Fellow	
UT Tyler Inaugural Faculty Fellow in Undergraduate Research	2013–2017
Awards	
President's Scholarly Achievement Award	2023
Awarded \$2,500 by The University of Texas at Tyler	
Excellence in Teaching & Innovation: Level Two Certificate	2016
Awarded \$2,500 by The University of Texas at Tyler Evaluation of Texas in Teaching & Innovation Level One Continues	2015
Excellence in Teaching & Innovation: Level One Certificate Awarded \$1,500 by The University of Texas at Tyler	2015
Regents' Outstanding Teaching Award	2014
1 1 0 2 5 0 0 0 1 THE LAND COMMITTEE OF THE COMMITTEE OF	2017

UT Tyler Faculty Fellow
Awarded \$25,000 by The University of Texas at Tyler
White Fellowship for Teaching Excellence
Awarded \$2,500 by The University of Texas at Tyler

2013-2014

2009

Donald E. Kibbey Prize in Mathematics

Awarded by the Office of Research and Technology Transfer at The University of Texas at Tyler

Awarded \$1,500 by Syracuse University Mathematics Department

Awarded \$25,000 by The University of Texas System

Research Award

Publications

- 1. Fixing numbers of graphs with symmetric and generalized quaternion symmetry groups, *Graphs and Combinatorics* **40**, 14 (2024). DOI: 10.1007/s00373-023-02742-9.
- 2. More reliable graphs are not always stronger, Networks, 81 (2023), 490–498. DOI: 10.1002/net22141
- 3. A new statistic on Dyck paths for counting 3-dimensional Catalan words, *Discrete Mathematics*, **346** (3) (2023). DOI: 10.1016/j.disc.2002.113247
- 4. Pattern restricted permutations composed of 3-cycles, with K. Archer, *Discrete Mathematics*, **345** (7) (2022). DOI: 10.1016/j.disc.2022.112895
- 5. Most reliable two-terminal graphs with node failures, with I. Brown*, B. Miller*, and T. Russell*, *Networks* (2020). DOI: 10.1002/net.21968
- 6. Network reliability: heading out on the highway, with J. Brown, C. Colbourn, D. Cox, and L. Mol, *Networks* (2020). DOI: 10.1002/net.21977
- 7. Counting acyclic and strong digraphs by descents, with K. Archer, I. Gessel, and X. Liang*, *Discrete Mathematics*, **343(11)** (2020). DOI: 10.1016/j.disc.2020.112041
- 8. Classes of uniformly most reliable graphs for all-terminal reliability, with K. Archer and D. Milan, *Discrete Applied Mathematics* **267** (2019), 12–29.
- 9. Vertex-minimal graphs with dihedral symmetry II, with L.-K. Lauderdale, *Discrete Mathematics* **342** (2019), 1378–1391. DOI 10.1016/j.disc.2018.12.028
- 10. On uniformly most reliable two-terminal graphs, with H. Bertrand*, O. Goff*, and M. Sun*, *Networks* **72** (2018); 200–216. DOI:10.1002/net.21811
- 11. Smallest graphs with given generalized quaternion automorphism group, with S. Graves and L.-K. Lauderdale, *Journal of Graph Theory* **87** (2018), 430–442. DOI: 10.1002/jgt.22166
- 12. Vertex-minimal graphs with dihedral symmetry, with S. Graves and L.-K. Lauderdale, *Discrete Mathematics* **340** (2017), 2573–2588. DOI: 10.1016/j.disc.2017.06.019
- 13. Extending patches to fullerenes, with J. McLoud-Mann and K. Stagg, *Ars Mathematica Contemporanea* **9** (2015), 219-232.
- 14. Fullerene patches II, with J. Graver and S. Graves, *Ars Mathematica Contemporanea* **7** (2014), 405-421.
- 15. Reliability polynomials with arbitrarily many inflection points, with D. Milan, *Networks* **64(1)** (2014), 1–5. DOI: 10.1002/net.21551
- 16. Counting symmetric and near-symmetric fullerene patches, with S. Graves, *Journal of Mathematical Chemistry* **52** (2014), 2423–2441. DOI:10.1007/s10910-014-0393-2
- 17. Side lengths of pseudoconvex fullerene patches, with J. McLoud-Mann, *Ars Mathematica Contemporanea* **5** (2012), 291-302.
- 18. Non-recursively constructible recursive families of graphs, with C. Bouey*, A. Ostrander* and G. Palma*, *The Electronic Journal of Combinatorics* **19(2)** (2012), #P9.

19. Inflection points of coherent reliability polynomials, *Australasian Journal of Combinatorics* **49** (2011), 111-126.

20. Fullerene patches I, with J. Graver, Ars Mathematica Contemporanea 3 (2010), 104-120.

Grant Experience

NSF Research Experience for Undergraduates (Co-PI) Awarded \$311,154 to host a REU at UT Tyler for three summers Awarded an additional \$64,520 from UT Tyler to support the program	2022–2024
NSF Research Experience for Undergraduates (Co-PI) Awarded \$254,443 to host a REU at UT Tyler for three summers Awarded an additional \$56,906 from UT Tyler to support the program	2017–2019
NSF Research Experience for Undergraduates (Co-PI) Awarded \$258,739 to host a REU at UT Tyler for three summers	2014–2016
Sonia Kovalevsky High School Mathematics Day Grant (PI) Awarded a conference grant of \$1,230 funded by the Association for Women in Mathematics	2011
The University of Texas at Tyler Faculty Research Grant (PI) Awarded a grant of \$4,000 to work on "Ambiguous Fullerene Patches"	2011
NSF Research Experience for Undergraduates (Senior Personnel) Supervised and assisted a group of 3 students in undergraduate research	2011
Mentoring	
Senior Capstone Projects	
 B. Cook, "Latin Squares and Sudokus" D. du Preez, "Most Reliable Graphs with 8 vertices and 21 edges" A. Delgado, "Coloring Symmetric Shapes" K. McDaniel, "Ramsey Numbers" J. Benton, "Game Theory and the Prisoner's Dilemma" T. Arnold, "Dots-and-Boxes" L. Thomas, "A Generalized Currency System" K. Prince, "Generalizing Optimization Problems" L. Edwards, "Counting Magic Squares" B. Williamson, "The Lottery Problem" L. Yankie, "Efficient Two-Coin System M. Field, "Algebraic Graph Theory: Hamiltonian Paths" 	2022 2021 2019 2016 2015 2014 2014 2013 2012 2012 2010 2010
Research Experience for Undergraduates Mentor	
L. Barksdale, M. MacDonald, and R. Maleki, "Two-terminal reliability and N-vector behavior" I. Brown, B. Miller, and T. Russell, "Most reliable two-terminal graphs with node failures" E. Liang, M. Martinez, and V. Osterman, "Inversions in directed acyclic graphs" A. Howard, C. Lewis, and K. Short, "Two-terminal reliability of graphs with terminal distance 3 or 4 H. Bertrand, O. Goff, and M. Sun, "Non-existence of uniformly most optimal 2-terminal graphs" K. Flanagan, B. Molokach, and R. Olugbemi, "Extending 5-Spirals to Fullerenes" C. Cornelus, J. Erickson, and H. Goetz, "Reliability of Recursively Constructed Graphs" C. Bouey, A. Ostrander, and G. Palma, "A Counterexample of a Conjecture of Noy and Ribo"	2022 2019 2018 4" 2017 2016 2015 2014 2011

^{*} denotes undergraduate co-authors

Christina M. Graves	Curriculum Vitae	Page 4 of 10
Master's Thesis Advisor		
M. Field, "Survey of Line Graph	ns and Hamiltonian Cycles"	2011–2012
Master's Thesis Committee M	ember	
J. Woodruff, "Vertex minimal gr	raphs with given automorphism group"	2016
	nes in certain edge-transitive infinite graphs"	2017
MAA Project NExT Consultar	nt	
Teaching mentor for new math h	nires in Texas	2017–2018
Conference Research	Presentations	
Pattern avoidance in one-line an	d cycle form (with K. Archer, et al)	
AMS Eastern Sectional Meeting,		2024
Catalan words and 321-avoiding		
AMS Southeastern Sectional Me	_	2022
A new statistic on Dyck paths (v	<u> </u>	
Joint Mathematics Meetings (vir		2022
Pattern-restricted permutations of	composed of only 3-cycles (with K. Archer)	
Texas A&M Combinatorics and A	Algebra Seminar, College Station, TX	2020
AMS Southeastern Section Meet	ing, University of Florida, FL	2019
Uniformly most reliable two-ter	minal networks	
CombinaTexas 2019 Meeting, Co	ollege Station, TX	2019
Texas Christian University Colle	oquium, Fort Worth, TX	2018
Vertex Minimal Graphs with Dil	hedral Symmetry (with S. Graves and LK. Lauderdale)	
Joint Meetings of the AMS and M	MAA, Atlanta, GA	2017
CombinaTexas 2016 Meeting, Co	-	2016
•	tomorphism Group (with S. Graves and L.KLauderdale)	
AMS Spring Western Section Me	<u>•</u>	2016
<u> -</u>	n Automorphism Group (with S. Graves and LK. Lauderda	
Texas Section MAA Conference,		2015
	bitrarily Many Inflection Points (with D. Milan)	
MathFest, Portland, OR		2014
_	(with J. McLoud-Mann and K. Stagg)	
Joint Meetings of the AMS and M		2014
Inflection Points of Reliability P		
CombinaTexas 2013 Meeting, H		2013
Counting Fullerene Patches (wit		2010
CombinaTexas 2013 Meeting, H		2013
	Fullerene Patches (with J. McLoud-Mann)	2012
Joint Meetings of the AMS and M		2013
Boundaries of Nice Fullerene Pa		2012
CombinaTexas 2012 Meeting, G	-	2012
Boundary Conditions of Fullerer Texas Section MAA Conference,		2012
All Fullerenes Great and Small	Danas, 1A	2012
Stephen F. Austin University Col	lloquium Nacoadoches TY	2011
Ambiguous Fullerene Patches	moquium, nacoguoches, 1A	2011
0	overy Conference, Sheffield, England	2010
zin Computers in Scientific Disc	overy Conjerence, Shemeia, Eligiana	2010

Teaching Talks

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Service to University

Department Service	
Department Tenure and Promotion Committee (Chair)	2019
Department Hiring Committee (Chair)	2017, 2018, 2019
Department Curriculum Committee (Chair)	2018–presen
Department Governance Committee (Chair)	2018, 201
Department Awards Committee (Chair)	2018, 202
Department Awards Committee	2017, 202
Department Tenure and Promotion Committee	2015–preser
Department Bulletin Board Organizer	2010–201
Department Technology Committee	2015, 201
Department Student Workers Committee	2014, 201
Department Honors Committee (Chair)	201
Department Hiring Committee	2011, 2014, 2016, 202
Department Graduate Committee	Bienniall
Department Curriculum Committee	Bienniall
Department Student Advisor	2009–preser
Department Master's Exam Committee Member	2010–preser
College of Arts and Sciences Service	
Department of Chemistry Tenure and Promotion Committee	202
College of Arts and Sciences Tenure and Promotion Committee (Chair)	202
College of Arts and Sciences Tenure and Promotion Committee	202
College of Arts and Sciences Curriculum Committee (Chair)	2019–202
College of Arts and Sciences Curriculum Committee	2018–201
College of Arts and Sciences Governance Committee	2013–201
College of Arts and Sciences Commencement Committee	2009–201
University Service	
Department of Mechanical Engineering Post-tenure Review Committee	202
Faculty Awards Committee	2024–preser
Student Appeals Committee	2020–202
Vice Provost of Research & Scholarship Search Committee	201
Parental Leave Policy Ad-hoc Committee	201
Director of Research & Scholarship Search Committee	201
Student Research Faculty Learning Community	201
UT Tyler Academy of Distinguished Teachers Founding Fellow	2020–preser
UT Tyler Academy of Distinguished Teachers (Secretary)	2016–202
University Faculty Awards Committee	2014–201
University Distance Education Advisory Committee	201
Graduate School Representative for Doctoral Defense	201
Teaching Excellence and Innovation Initiative Member	2012, 201
University Core Curriculum Initiative Member	201

Service to Students

UT Tyler "Lyceum: Student Research Showcase"

Judge for student posters and presentations 2016, 2018, 2020, 2021 Organizer for a campus-wide research showcase

2016, 2017

Christina M. Graves Curriculum Vitae Page 7 of 10 **Math Club Advisor** 2011-2016, 2019-2020 Organized an interdisciplinary lecture series with other departments on campus Organized biweekly meetings average over 40 attendees per meeting **Co-curricular Awards** 2012, 2013, 2016 Awarded \$800 to travel with 13 undergraduates to MAA Texas Section meeting in Nacogdoches, TX Awarded \$800 to travel with 6 undergraduates to MAA Texas Section meeting in Lubbock, TX Awarded \$769 to travel with 3 undergraduates to Nebraska Conf. for Undergraduate Women in Math Awarded \$579 to travel with 6 undergraduates to MAA Texas Section meeting in Dallas, TX **Putnam Exam Coordinator** 2009-2012 Organized weekly practices for undergraduates competing in the national Putnam exam Master Advisor 2009-present Completed four training modules on becoming a better academic advisor Formal advisor to over twenty math majors Service to Profession Associate Editor for *Networks* 2020-present **Invited Journal Referee** AIMS Mathematics, Algorithmica, Discrete Applied Mathematics, Discrete Mathematics, Discrete Mathematics and Theoretical Computer Science, Discussiones Mathematicae Graph Theory, IEEE Transactions on Reliability, International Transactions in Operational Research, Journal of Algebraic Combinatorics, Networks, Theoretical Computer Science **Invited Reviewer of Discovery Grant applications for NSERC** 2016, 2017 **Career Panelist** 2016 Tyler Junior College STEAM Career Day **Young Mathematicians Conference Abstract Judge** 2015 Judged over 100 undergraduate research abstracts. Texas Undergraduate Mathematics Conference Organizer 2015 Co-organized the 11th Annual Texas Undergraduate Mathematics Conference **Career Panel Moderator** 2010, 2015 6th Annual Texas Undergraduate Mathematics Conference 11th Annual Texas Undergraduate Mathematics Conference **Combinatorics Room Organizer** 2012 Texas Undergraduate Mathematics Conference **Faculty Sharing Session Speaker** 2012 Led a workshop on how to use different technology in the classroom. **MAA Conference Food Committee Chair** 2010-2011 Organizer of all meals and snacks for the Texas Section MAA conference. **Service to K-12 Education**

2024

2022

Question and Answer Session with Keller Collegiate Academy

Academic Rodeo Presenter

	Curriculum Vitae	Page 8 of 10
Reader for AP Statistics Exan	ns	2020
Guest speaker at Owens Elem	entary	
"Dice Sum Distributions," 4th g		2018
"Edible 3D Shapes," Kindergart	1	2017
"Bouncing Ball Height Compar	•	2017, 2018
"Dice Probabilities," 2nd grade	- ·	2017
"Math and Fruit Loops," 1st and	1 2nd grade presentation	2016
High School Pentathlon Contr	ibutor	2014
East Texas State Fair	ibutoi	201-
	sittee (member sheir)	2010 2011
Sonya Kovalevsky Day Comm		2010, 2011
Organized a Sonya Kovalevsky	Day conference at UT Tyler for high school females.	
Service to Communi	ty	
Catholic Charities Board Mer	nber	2016–2021
Faith Formation Teacher		2015–presen
	Mary Magdalene Church, Flint, TX	2013 presen
		2013–2017
Vacation Bible School Organi	zei	2013–2017
Teacher Training		
IIT System Academy of Distin	guished Teacher's Conference on Teaching in Texas	2021
•	aguished Teachers - 2020 Winter Conference	2020
of bystem readenly of bisting	guished reachers 2020 Whiter Comerciae	
Project NExT Workshops		
Project NExT Workshops <i>Texas Section MAA Conference.</i>	Nacogdoches, TX	
Texas Section MAA Conference,		2016 2015
•	ics Conference, Tyler, TX	2016 2015
Texas Section MAA Conference, Texas Undergraduate Mathemat	ics Conference, Tyler, TX San Antonio, TX	2016 2015 2015
Texas Section MAA Conference, Texas Undergraduate Mathemat Texas Section MAA Conference,	ics Conference, Tyler, TX San Antonio, TX Tyler, TX	2016 2015 2016 2017
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Christina M. Graves	Curriculum Vitae	Page 9 of 10
Teaching Town Hall: A Celebra	ation of Teaching	2016
Improving Student Retention		2016
Introduction to Teaching & Lea	arning	2015
Tips for Developing and Maint	aining Industry Relationships for Faculty	2015
Using Games for Informal Ass		2015
UT Tyler Symposium on Resea	arch and Creativity	2015
Collaboration in Group Work		2015
Designing for Instructor Preser		2015
Blackboard Grade Center and I	Retention Center	2015
Video Lecturing		2015
Zoom Training	0.1	2015
Introduction to Online Teaching	-	2015
Evaluating Participation and D	1SCUSSION	2015
Revising Your Course		2015
Meaningful Discussions		2015
Building Community		2015 2015
Open Educational Resources Teaching Moments		2013
The Flipped Classroom		2014
The Online Classroom		2014
Classroom Management		2012
The Inclusive Classroom		2011
Tegrity: Capturing the Classroo	om	2011
Minicourse at MathFest 2014		2014
	ementing Inquiry-Oriented Curricula	2011
	ar - Topics in First Year Calculus	2010
Courses Taught		
MATH 1325 - Mathematics fo	r Business and Economics II	
MATH 1342 - Statistics	i Business and Decironnes if	
	puter Lab (supervising instructor)	
	nputer Lab (supervising instructor)	
MATH 2330 - Discrete Mathe		
MATH 2312 - Precalculus	matics	
MATH 2413 - Calculus I		
MATH 2413 - Calculus I (onli	ina saation)	
HNRS 2413 - Honors Calculus	,	
MATH 2414 - Calculus II	81	
	. II	
HNRS 2414 - Honors Calculus		
	lculus Computer Lab (supervising instructor)	
MATH 3203 - Matrix Methods		
MATH 3305 - Ordinary Differ	*	
MATH 3336 - Abstract Algebra		
MATH 3336 - Abstract Algebra		
MATH 3345 - Real Analysis I		
	Statistics for Engineers and Scientists	
MATH 3425 - Foundations of		
MATH 3404 - Multivariate Ca	lculus	
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MATH 4160 - Senior Seminar I

MATH 4161 - Senior Seminar II

MATH 4336 - Abstract Algebra II

MATH 4350 - Theory of Probability

MATH 4351 - Applied Statistics

MATH 5322 - Graph Theory (graduate course)

MATH 5331 - Algebraic Structures (graduate course)

MATH 5333 - Topics in Algebra (graduate course)

MATH 5391 - Combinatorics (graduate course)

MATH 5391 - Topics in Graph Theory (graduate course)

MATH 5391 - Combinatorial Game Theory (graduate course)