

# MADLINE LOCUS DAWSEY

## CURRICULUM VITAE

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Department of Mathematics  
University of Texas at Tyler  
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Tyler, TX 75799

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## EDUCATION

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Ph.D. in Mathematics, Emory University 2019

Advisor: Dr. Ken Ono

Dissertation: *New Results on Partitions, Prime Numbers, and Moonshine*

B.S. in Mathematics, University of Georgia 2014

A.B. in Italian, University of Georgia 2014

## RESEARCH INTERESTS

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Analytic and combinatorial number theory including integer partitions, modular forms, arithmetic and analytic densities, and digital representations

## POSITIONS HELD

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Associate Professor, University of Texas at Tyler 2024 – present

Assistant Professor, University of Texas at Tyler 2019 – 2024

Research Assistant, Emory University 2019

Teaching Assistant, Emory University 2015 – 2018

## PUBLICATIONS

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\*indicates an undergraduate student author, \*\*indicates a graduate student author

### RESEARCH PUBLICATIONS

1. C. Frechette\* and M. Locus\*. Combinatorial Properties of Rogers-Ramanujan-Type Identities Arising from Hall-Littlewood Polynomials. *Annals of Combinatorics*, **20**: 2 (2016), 345-360.
2. M. Locus\*\* and I. Wagner\*\*. Congruences for Powers of the Partition Function. *Annals of Combinatorics*, **21**: 1 (2017), 83-93.
3. E. Alwaise\*, R. Dicks\*, J. Friedman\*, L. Gu\*, Z. Harner\*, H. Larson\*, M. Locus\*\*, I. Wagner\*, and J. Weinstock\*. Shifted distinct-part partition identities in arithmetic progressions. *Annals of Combinatorics*, **21**: 4 (2017), 479-494.

4. M. Locus\*\*. Conjugacy growth series for finitary wreath products. *Research in Number Theory*, **3**: 7 (2017).  
M. Locus\*\*. Erratum to: Conjugacy growth series for finitary wreath products. *Research in Number Theory*, **3**: 15 (2017).
5. M. L. Dawsey\*\*. A new formula for Chebotarev densities. *Research in Number Theory*, **3**: 27 (2017).
6. M. L. Dawsey\*\* and R. Masri. Effective bounds for the Andrews spt-function. *Forum Mathematicum*, Vol. 31, Issue 3 (2019), 743-767.
7. M. L. Dawsey\*\*, K. Ono, and I. Wagner\*\*. Multiquadratic fields generated by characters of  $A_n$ . *Journal of Algebra*, Volume 533 (2019), 339-343.
8. M. L. Dawsey\*\* and K. Ono. Higher width moonshine. *Advances in Mathematics*, Volume 360 (2020), doi.org/10.1016/j.aim.2019.106896.
9. M. L. Dawsey, K. Ono, and I. Wagner. Fields generated by characters of finite linear groups. *Archiv der Mathematik* **116** (2021), 487-500.
10. M. L. Dawsey and D. McCarthy. Generalized Paley graphs and their complete subgraphs of orders three and four. *Research in the Mathematical Sciences* **8**: 18 (2021).
11. M. L. Dawsey and B. Sharp\*. Self-conjugate  $t$ -core partitions and applications. *Australasian Journal of Combinatorics* **82(2)** (2022), 212-227.
12. M. L. Dawsey, T. Russell\*, and D. Urban\*\*. Derivatives and Integrals of Polynomials Associated with Integer Partitions. *Journal of Integer Sequences* **25** (2022), Article 22.5.1.
13. M. L. Dawsey, M. Just\*\*, and R. Schneider. A “supernormal” partition statistic. *Journal of Number Theory* **241** (2022), 120-141.
14. E. Cochran\*, M. L. Dawsey, E. Harrell\*, and S. Saunders\*. Bijections, generalizations, and other properties of sequentially congruent partitions. *Ramanujan Journal* (2023).  
<https://doi.org/10.1007/s11139-023-00728-y>.
15. K. Anders, M. L. Dawsey, R. Gupta, and J. Vandehey. Non-standard binary representations and the Stern sequence. *Electronic Journal of Combinatorics* Volume 31, Issue 4, Article Number P4.39 (2024).
16. K. Anders, M. L. Dawsey, B. Reznick, and S. Sisneros-Thiry. Representations of integers as quotients of sums of distinct powers of three. Submitted. Preprint: <https://arxiv.org/abs/2308.07252>.
17. W. Craig, M. L. Dawsey, and G.-N. Han. Inequalities and asymptotics for hook numbers in restricted partitions. Submitted. Preprint: <https://arxiv.org/abs/2311.15013>.
18. A. Botkin\*\*, M. L. Dawsey, D. J. Hemmer, M. R. Just, and R. Schneider. Partition-theoretic model of prime distribution. Submitted. Preprint: <https://arxiv.org/abs/2501.00580>.

## **RESEARCH IN PREPARATION**

1. M. L. Dawsey and R. Gupta. Summation formulas in the theory of Hecke’s functional equation. In preparation.
2. K. Anders, M. L. Dawsey, R. Gupta, N. Lebowitz-Lockard, and J. Vandehey. Non-standard quaternary representations and the Fibonacci sequence. In preparation.

3. M.L. Dawsey, M. Jeske\*, A. Martinez\*, A. Russo\*, and M. Taylor\*. Combinatorial observations on standard Young tableaux and permutations. In preparation.

## CONFERENCE PROCEEDINGS

1. M. L. Dawsey\*\* and K. Ono. CM Evaluations of the Goswami-Sun Series. *Proceedings of Elliptic Integrals, Elliptic Functions and Modular Forms in Quantum Field Theory*. Zeuthen, Germany (Ed. J. Blumlein, et. al.), Springer (2019), 183-193.
2. M. L. Dawsey and D. McCarthy. Hypergeometric Functions over Finite Fields and Modular Forms: A Survey and New Conjectures. Conference Proceedings: Baylor Analysis Fest - From Operator Theory to Orthogonal Polynomials, Combinatorics, and Number Theory. *Operator Theory: Advances and Applications*, Birkhauser (2021) 41–56.

## OTHER PUBLICATIONS

1. Popular magazine article: M. L. Dawsey\*\* and K. Ono. Speed Seeking. *Splash Magazine* (Summer 2019), 38-39.
2. Book chapters
  - (i) Review of “Your hit parade: the top ten most fascinating formulas in Ramanujan’s lost notebook,” by B. C. Berndt and G. E. Andrews. *Srinivasa Ramanujan: His Life, Legacy, and Mathematical Influence*. Springer (2024). Accepted for publication.
  - (ii) Ramanujan and the Nekrasov–Okounkov Formula. *Srinivasa Ramanujan: His Life, Legacy, and Mathematical Influence*. Springer (2024). Submitted.

## GRANTS

<b>NSF Research Experience for Undergraduates (REU), PI</b> (submitted)	2025 – 2027
<b>NSF Research Experience for Undergraduates (REU), Senior Personnel</b>	2022 – 2024
<b>AMS-Simons Travel Grant</b>	2020 – 2022
<i>Awarded \$5,000 to support travel for research in number theory.</i>	
<b>UT Tyler New Faculty Research Grant</b>	2020 – 2021
<i>Awarded \$7,149 for travel, supplies, and research assistants for research in number theory.</i>	
<b>NSF-AWM Travel Grant</b>	2020
<i>Awarded \$1,722.18 for travel to the 34th Automorphic Forms Workshop in Moab, Utah.</i>	

## HONORS AND AWARDS

UT Tyler nominee for the UT System Regents’ Outstanding Teaching Award	2023 – 2024
Innovation in Teaching Award (\$2000), University of Texas at Tyler	2023 – 2024
Jack and Dorothy Faye White Fellowship for Teaching Excellence (\$2500), University of Texas at Tyler	2022 – 2023
UT Tyler Department of Mathematics Faculty Teaching Award	2022 – 2023

Marshall Hall, Jr. Teaching Award, Emory University	2018 – 2019
George W. Woodruff Fellowship, Emory University	2015 – 2019
SEC Boyd McWhorter Scholar-Athlete of the Year, Southeastern Conference	2015
NCAA Postgraduate Scholarship, National Collegiate Athletic Association	2015
AT&T Student Leadership Award, University of Georgia	2014
Joel Eaves Scholar-Athlete Award, University of Georgia Athletic Department	2013
Hollingsworth Award, University of Georgia Math Department	2013

## PRESENTATIONS

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### CONFERENCE PRESENTATIONS

\*indicates a plenary talk

- *Partition-theoretic model of prime distribution\** 2025  
Southeastern Regional Meetings on Numbers (SERMON), Savannah, GA
- *Partition-theoretic model of prime distribution* 2025  
AMS Sectional Meeting, Hartford, CT  
Special Session: Partitions and  $q$ -Series
- *Digital representations and special sequences* 2024  
Bayou Arithmetic Research Days (BARD) 4, Tulane University
- *Properties of sequentially congruent partitions* 2024  
Joint Mathematics Meetings, San Francisco, CA  
Special Session: Partition Theory and  $q$ -Series
- *Binary representations and the Stern sequence* (virtual talk) 2023  
AMS Sectional Meeting, South Alabama  
Special Session: Experimental Mathematics in Number Theory and Combinatorics
- *A new partition statistic* 2022  
Baylor Analysis Fest (virtual)
- *Student Workshop on Ranks and Cranks\** 2022  
NSF-CBMS Regional Research Conference Series, University of Texas Rio Grande Valley
- *Interdisciplinary Mathematics Research* 2022  
East Texas Research Conference (virtual)
- *A new partition statistic* 2022  
Joint Mathematics Meetings (virtual)  
Special Session: Early career number theory research with combinatorics, modular forms, and basic hypergeometric series
- *A new partition statistic\** 2022  
Southern Regional Number Theory Conference, Louisiana State University
- *Modular forms, hypergeometric functions, and Ramsey numbers* 2020

- AMS Sectional Meeting, Pennsylvania State University  
Special Session:  $q$ -Series and Related Areas in Combinatorics and Number Theory
- *Congruences for powers of  $p(n)$*  2019  
AMS Sectional Meeting, University of Florida  
Special Session: Partition Theory and Related Topics
  - *Partitions and a conjecture of John Thompson* 2019  
Analytic and Combinatorial Number Theory: The Legacy of Ramanujan, University of Illinois at Urbana-Champaign
  - *Moonshine for finite groups* 2019  
Southern Regional Number Theory Conference: Modular Curves, Modular Forms, and Hypergeometric Functions, Louisiana State University
  - *Moonshine for finite groups* 2019  
AMS Sectional Meeting, University of Hawaii at Manoa  
Special Session: Recent Advances and Applications of Modular Forms
  - *Inequalities satisfied by the Andrews spt-function* 2019  
AMS Sectional Meeting, Auburn University, AL  
Special Session: Experimental Mathematics in Number Theory, Analysis & Combinatorics
  - *Moonshine for finite groups* 2019  
Low dimensional topology and number theory XI, Osaka University, Japan
  - *CM Evaluations of the Goswami–Sun Series* 2019  
Joint Mathematics Meetings, Baltimore, MD  
Special Session: Partition Theory and Related Topics
  - *The Andrews Smallest Parts Partition Function* 2019  
Joint Mathematics Meetings, Baltimore, MD  
Invited Paper Session: Modular Forms: Aesthetics and Applications
  - *Higher Width Moonshine* 2018  
New developments in the theory of modular forms over function fields, Centro di Ricerca Matematica, Italy
  - *A New Formula for Chebotarev Densities* 2018  
Canadian Number Theory Association XV, Université Laval, Canada
  - *Effective Bounds for Andrews’ Smallest Parts Function* 2018  
Combinatory Analysis, Pennsylvania State University
  - *Effective Bounds for Andrews’ Smallest Parts Function* 2018  
Automorphic Forms Workshop, Tufts University, MA
  - *A New Formula for Chebotarev Densities* 2017  
International Conference on Number Theory, SASTRA University, India
  - *A New Formula for Chebotarev Densities* 2017  
Palmetto Number Theory Series, University of Tennessee
  - *Rogers–Ramanujan Series Arising from Hall–Littlewood Polynomials* 2015

Joint Mathematics Meetings Poster Session, San Antonio, TX

## COLLOQUIUM AND SEMINAR PRESENTATIONS

- *Properties of sequentially congruent partitions* 2024  
Online Partitions and  $q$ -Series Seminar (virtual)
- *Binary representations and the Stern sequence* 2023  
Mathematics Department Seminar, University of Texas at Tyler
- *Adding and Counting: How Hard Can It Be?* 2023  
NSF Research Experience for Undergraduates talk, Texas A&M University Commerce
- *A new partition statistic* 2022  
Number Theory Seminar, Texas A&M University
- *A new partition statistic and applications* 2022  
Texas Number Theory and Combinatorics Seminar (virtual)
- *Adding & counting in many different ways* 2021  
Math Club, University of Texas at Tyler
- *Maps between partitions and the natural numbers* 2020  
Mathematics Department Seminar, University of Texas at Tyler
- *Adding and Counting: How Hard Can It Be?* 2020  
Women in Math and Science Research Seminar, University of Texas at Tyler
- *Modular forms and Ramsey theory* 2020  
Number Theory Seminar, Vanderbilt University
- *Moonshine and its variants* 2020  
Algebra Seminar, University of North Texas
- *Modular forms and Ramsey theory* 2020  
Mathematics Department Seminar, University of Texas at Tyler
- *Molecular Mathematics* 2020  
Math Club, University of Texas at Tyler
- *Two new results in representation theory* 2019  
Algebraic Geometry and Number Theory Seminar, Rice University
- *Densities of subsets of prime numbers* 2019  
Mathematics Colloquium, TCU
- *Partitions and representation theory* 2019  
Mathematics Department Seminar, University of Texas at Tyler
- *A new formula for Chebotarev densities* 2019  
Algebra and Number Theory Seminar, Texas Tech University
- *Adding and Counting: How Hard Can It Be?* 2019  
Math Club, University of Texas at Tyler

- *Moonshine for finite groups* 2019  
Mathematics Department Seminar, University of Texas at Tyler
- *Adding and Counting: How Hard Can It Be?* 2019  
Mathematics Colloquium, St. Edward's University
- *Densities of subsets of prime numbers* 2018  
Number Theory Seminar, Texas A&M University
- *Densities of subsets of prime numbers* 2018  
Mathematics Department Seminar, University of Texas at Tyler
- *Moonshine for finite groups* 2018  
Mathematics Colloquium, Baylor University
- *Moonshine for finite groups* 2018  
Algebra Seminar, University of Tennessee
- *Moonshine for finite groups* 2018  
Algebra Seminar, Emory University
- *Densities of subsets of prime numbers* 2018  
Mathematics Colloquium, Baylor University
- *Conjugacy Growth Series for Wreath Products of Finitary Permutation Groups* 2017  
Combinatorics, Algebra, and Geometry Seminar, University of Pennsylvania
- *Conjugacy Growth Series for Wreath Products of Finitary Permutation Groups* 2017  
Number Theory Seminar, Texas A&M University
- *Combinatorial Properties of Generalized Rogers–Ramanujan Identities* 2015  
Number Theory Seminar, University of Georgia

## ADVISING

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### UNIVERSITY OF TEXAS AT TYLER

#### Postdoctoral Fellows

–Rajat Gupta 2023 – 2024

#### Graduate Student Research Assistants

–Dannie Urban, *A study of partitions* 2020 – 2021

#### Undergraduate Student Research Assistants

–Tyler Russell, *A study of partitions* 2020 – 2021

- Pi Mu Epsilon MathFest presentation: *Polynomials Associated to Integer Partitions*
- MathFest Outstanding Presentation Award

–Benjamin Sharp, *A study of partitions* 2020 – 2021

#### Research Experiences for Undergraduates (REU)

–TBD 2025

–*Permutations of Partition Young Tableaux* 2024

- Alessandra Martinez (University of Texas Rio Grande Valley)

- Alessandro Russo (Charleston Southern University)
- Mat Taylor (University of Texas at Tyler)
- Sequentially Congruent Partitions* 2022
- Ezekiel Cochran (LeTourneau University)
- Emma Harrell (Mount Holyoke College)
- Samuel Saunders (University of Texas at Tyler)

### **Louis Stokes Alliances for Minority Participation (LSAMP)**

- Millie Jeske, *Permutations of Partition Young Tableaux* 2024

### **Senior Capstone Projects**

- Melissa Rodriguez-Sanchez, *Permutation Puzzles* Fall 2024
- Alejandro De Mingo, *The Mathematics of Origami* Spring 2024
- Tyler Russell, *The Circle Method* Spring 2022
- Rebecca Odom, *Identifying Self-Conjugate Partitions* Spring 2021
- Pi Mu Epsilon MathFest presentation: *Identifying Self-Conjugate Partitions*
- MathFest Outstanding Presentation Award
- Paper submitted to *Rose-Hulman Undergraduate Mathematics Journal*
- Landri Edwards, *Mathematical Analysis of Soccer* Fall 2020
- Chloe West, *Mathematical Analysis of Swimming* Spring 2020

### **Honors Contract Projects**

- Hunter Brown, *TBD* Spring 2025
- Melissa Rodriguez-Sanchez, *Permutation Groups from Number Puzzles* Fall 2024
- Millie Jeske, *Permutations and Partition Young Tableaux* Fall 2024
- Matthew Castillo, *Malaria Control Using Ordinary Differential Equations* Spring 2023

## **EMORY UNIVERSITY**

### **Undergraduate Directed Research Projects** (joint with Ken Ono)

- Sven Mesihovic, *Analytic Study of High Performance Swimming* Spring 2019

### **Research Experiences for Undergraduates** (graduate student mentor)

- Analytic Study of High Performance Swimming* 2018, 2019

## **UNIVERSITY OF VIRGINIA**

### **Undergraduate Directed Research Projects** (joint with Ken Ono)

- Jerry Lu, *Analytic Study of High Performance Swimming* 2020 – 2021

## **PROFESSIONAL DEVELOPMENT**

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### Student Research Professional Learning Community

- Undergraduate and Graduate Research Funding Opportunities 2022
- Tips for Recruiting Student Researchers 2021

Tenure & Promotion: Assistant to Associate Professor 2021

Course Hero Virtual Education Summit 2020



–The Future of Higher Education in the Age of Coronavirus	
–Engaging Underprepared Students: Before, During, And After the COVID Era	
–Teaching Effective Thinking Through Mathematics	
–TailorEd: Student Learning Outcomes	
–Synchronous vs. Asynchronous: Lessons From An Educator Teaching Online Since 1994	
–Unleashing Faculty Innovation	
UT Tyler Faculty Panel on Course Evaluations: Learning from our Students	2020
Student Success Seminar Series, UT Tyler	
–From ABC to XYZ: Educating the Instant Generation	2020
UT System Academy of Distinguished Teachers Winter Conference	
–Defining and Teaching for Student Success	2020
–Active Learning Using Educational Technologies	2020
–Meeting these Challenges	2020
UT Tyler Center for Excellence in Teaching and Learning	
–Teaching and Learning in the Age of AI: How Do We Adapt?	2023
–Advanced Active Learning Strategies for In-Person, Online, and Blended Learning Environments	2023
–Understanding our Undergraduate Students: They’re Here	2022
–Post-Pandemic Teaching and Learning	2022
–Active Learning Strategies in STEM Courses	2021
–How Do I Help My Students?	2021
–Panel Discussion: OER and Affordable Textbook Alternatives	2020
–Digital Tools to Empower 21st Century Learners	2020
–Using Storytelling in the Classroom	2020
–Increasing Accessibility for All	2019
–Culture Shock and College Success	2019
–Building Student Resilience	2019
–Designing Service-Learning Courses	2019
MAA Project NExT Workshops	2020
–Math for Non-Math Majors	
–Inspired by Real, Fun Math: Practical Outreach for Sharing the Power and Beauty of Mathematics with our Communities	
–Fostering an Equitable Classroom	
UT Tyler Internal Grants: Facilitating Faculty and Staff Research and Collaboration	2019
Work-Life Balance Faculty Learning Community Workshop/Meeting	2019
UT Tyler Tenure & Promotion Workshop	2019, 2020, 2021, 2022

## PROFESSIONAL SERVICE

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- Co-organizer, Joint SIAM/CAIMS Annual Meetings, Montréal, Québec, Canada 2025  
 Minisymposium on “Hypergeometric Series and Their Applications”
- External reviewer, NSF Research Experience for Undergraduates, Texas A&M Commerce 2023
- Co-organizer, JMM Special Session on “Modular Forms and Combinatorics” 2022
- Reviewer, AMS Mathematical Reviews 2021 – present
- Co-organizer, JMM Special Session on “Partition Theory and  $q$ -Series” 2020
- Judge, MAA Undergraduate Student Poster Session at the JMM 2020
- Session Chair, Analytic and Combinatorial Number Theory: The Legacy of Ramanujan 2019
- Referee Work: 2016 – present
- Transactions of the American Mathematical Society*
  - Proceedings of the American Mathematical Society*
  - Research in the Mathematical Sciences*
  - Acta Mathematica Scientia*
  - Ramanujan Journal*
  - Journal of Number Theory*
  - Research in Number Theory*
  - Hardy-Ramanujan Journal*
  - Discrete Mathematics*
  - Discussiones Mathematicae Graph Theory*
  - International Journal of Number Theory*
  - Communications in Algebra*
  - Annals of Combinatorics*
  - Electronic Journal of Combinatorics*
  - Graphs and Combinatorics*
  - Integers*
  - Australasian Journal of Combinatorics*
  - Involve*
  - Bulletin of the Brazilian Mathematical Society, New Series*
  - Ball State Undergraduate Mathematics Exchange*
  - A paper contributed to a Festschrift for *Operator Theory: Advances and Applications*
  - A paper contributed to *FPSAC (Formal Power Series and Algebraic Combinatorics)*

## UNIVERSITY SERVICE

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### University of Texas at Tyler

#### *Institutional Committees and Service*

College of Arts and Sciences Curriculum Committee

Chair

2024 – 2025

Member	2023 – 2027
Research Council member (a university-level advisory committee)	2023 – 2026
Conducted a Center for Excellence in Teaching and Learning workshop “Problem-Based Learning in Precalculus”	2023
Honors Program Coordinator Search Committee member	2021
Judge for Lyceum Student Research Showcase	2021, 2023
Leader of eleven freshman book discussion mock classes at orientation	2020, 2021
Pi Mu Epsilon Texas Phi Chapter Faculty Advisor	2021 – 2025
Guest speaker at Honors Forum	2021
Panelist for “What I Wish I’d Known” at new faculty orientation	2020
Founder/faculty advisor, Women in Math and Science at UT Tyler	2019 – present
Founder/faculty advisor, Patriots for the Deaf and Hard of Hearing	2019 – 2021
Service-Learning Faculty Learning Community Member	2019 – 2020
Global Quiz Night Volunteer	2019

#### *Departmental Committees and Service*

Mathematics Department Search/Hiring Committee	
Chair	2024 – 2025
Member	2023 – 2025
Mathematics Department Chair Hiring Committee member	2024
Mathematics Department Postdoctoral Committee member	2023 – 2024
Mathematics Department Awards Committee	
Chair	2024 – 2025
Member	2023 – 2025
Mathematics Department Webmaster (Website Committee chair)	2023 – 2025
Mathematics Department Curriculum Committee	2020 – 2021, 2022 – 2023, 2024 – 2025
Mathematics Department Graduate Committee	2019 – 2020, 2021 – 2022, 2023 – 2024
Redesigned the B.S. Mathematics degree to include career tracks	2022 – 2024
Helped design a 4+1 B.S./Master’s degree in Mathematics	2022
Mathematics Department Strategic Plan Committee member	2022
Mathematics Department Standardizing Math-CS Double Major Committee member	2021
Mathematics Department Open House Co-organizer	2021
Mathematics Department Ph.D. Committee member	2020 – 2023
Mathematics Department Education Committee member	2019 – 2021
Founded the UT Tyler Number Theory and Combinatorics Seminar	2020
Seminar Organizer	2020 – 2021, 2023 – present

#### **Emory University**

Moderator of a teaching panel at the teaching assistant preparatory workshop	2018
Micro-teaching facilitator at the teaching assistant preparatory workshop	2018

Lecturer for the STEM Pathways program	2018
Head coach for the Emory Collegiate Club Swim Team	2016 – 2018

## COMMUNITY SERVICE

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Organizer/speaker for Keller Collegiate Academy's visit to UT Tyler Math Department	2024
Co-organizer for UT Tyler STEM Summer Camp	2020, 2021
Guest speaker for STEM Like a Girl, Discovery Science Place	2020, 2021
Guest speaker for No Excuses University Initiative, Van Intermediate School	2019
Volunteer at the American Heart Association Heart Walk in Tyler, TX	2019
Participant at Swim Across America, Atlanta	2016 – 2018
Volunteer for HomeStretch with UGA alumni	2018
Guest speaker at an Atlanta Girls' School swim practice	2016
Assistant instructor at two Emory Math Circle meetings	2016
Guest speaker for Fellowship of Christian Athletes at The Lovett School	2016

## COURSES TAUGHT

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### University of Texas at Tyler

MATH 5321: Topics in Combinatorics  
MATH 4321: Combinatorics/Graph Theory  
MATH 4161: Senior Seminar II  
MATH 4160: Senior Seminar I  
MATH 3425: Foundations of Mathematics  
MATH 3336: Abstract Algebra I  
MATH 3305: Ordinary Differential Equations  
MATH 3203: Matrix Methods in Science and Engineering  
MATH 2415: Multivariate Calculus  
MATH 2414: Calculus II  
MATH 2413: Calculus I  
MATH 2312: Precalculus  
MATH 1342: Statistics I  
MATH 1342.H: Honors Statistics I  
HNRS 2414: Honors Calculus II  
HNRS 2413: Honors Calculus I

### Emory University

MATH 211: Multivariable Calculus  
MATH 116 (teaching assistant): Calculus II for Life Sciences  
MATH 112: Calculus II  
MATH 111: Calculus I