Adam D. Gregory
14 October 1996

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EDUCATION

Doctor of Philosophy, Mathematics
University of Florida; Gainesville, FL   Ongoing
Advisor: Zachary Hamaker

Bachelor of Science, Mathematics
Western Carolina University; Cullowhee, NC   May 2019
Minor in Chemistry
Major GPA: 4.00; Overall: 3.99
Summa Cum Laude

TEACHING EXPERIENCE

- MAC2313 — Analytical Geometry & Calculus III   Summer 2024
  University of Florida; Gainesville, FL
  Instructor
- MAC1114 — Trigonometry   Spring 2024
  University of Florida; Gainesville, FL
  Instructor
- MAC2233 — Survey of Calculus I   Fall 2023
  University of Florida; Gainesville, FL
  Teaching Assistant
- MAC2234 — Survey of Calculus II   Fall 2023
  University of Florida; Gainesville, FL
  Teaching Assistant
- MAC2313 — Analytical Geometry & Calculus III   Fall 2021
  University of Florida; Gainesville, FL
  Teaching Assistant
- MAC1147 — Precalculus, Algebra & Trigonometry   Spring 2020
  University of Florida; Gainesville, FL
  Teaching Assistant
- MAC2313 — Precalculus, Algebra & Trigonometry   Fall 2019
  University of Florida; Gainesville, FL
  Teaching Assistant
- MATH250 — Introduction to Logic & Proof   Fall 2018
  Western Carolina University; Cullowhee, NC
  Teaching Assistant

PUBLICATIONS

1. Lenart's Bijection via Bumpless Pipe Dreams
   The Electronic Journal of Combinatorics **30(1)** (2023), #P1.24
   Joint work with Z. Hamaker

2. Pattern Restricted quasi-Stirling Permutations
   Australas. J. Combin. **74(3)** (2019), 389–407
   Joint work with K. Archer, B. Pennington and S. Slayden
3. Edge-Transitive Graphs and Combinatorial Designs
   Involve, a Journal of Mathematics **12-8** (2019), 1329–1341
   Joint work with D. Narayan, H. Newman and H. Miranda
4. Infinite Families of Asymmetric Graphs
   AKCE International Journal of Graphs and Combinatorics, **17-3** (2020), 1000–1009
   Joint work with A. Brewer, R. Flórez, Q. Jones, D. Narayan, and L. Rodriquez

PREPRINTS

5. Vexillary double Edelman–Greene coefficients are Graham positive
   In preparation
   Joint work with Z. Hamaker and T. Yu
6. The Asymmetric Index of a Graph
   arXiv: 1808.10467
   Joint work with A. Brewer, E. Farnsworth, N. Gomez, Q. Jones, H. Lino and D. Narayan
7. On Covers of Dihedral 2-Groups by Powerful Subgroups
   arXiv: 1901.03372
   Joint work with R. Atanasov, L. Guatelli and A. Penland

PRESENTATIONS

1. "Vexillary double Edelman–Greene coefficients are Graham positive" (poster)   February 2024
   SaganFest – The Conference on Enumerative and Algebraic Combinatorics
   University of Florida; Gainesville, FL
2. "Vexillary double Edelman–Greene coefficients are Graham positive"   November 2023
   North Carolina State University Algebra & Combinatorics Seminar; Raleigh, NC
3. "Utility of combinatorial formulas for special polynomials"   September 2023
   UF Graduate Mathematics Association Colloquium; Gainesville, FL
4. "Vexillary double Stanley symmetric functions"   April 2023
   Michigan State University Combinatorics & Graph Theory Seminar; online
5. "Lenart's Bijection via Bumpless Pipe Dreams"   November 2022
   Kennesaw State University Discrete Mathematics Seminar; Marietta, GA
6. "Some open problems from a new insertion algorithm"   October 2022
   UF Graduate Student Combinatorics Seminar; Gainesville, FL
7. "The Asymmetric Index of a Graph"   November 2019
   University of Florida Combinatorics Seminar; Gainesville, FL
8. "Pattern Restricted quasi-Stirling Permutations"   November 2019
   AMS Fall Southeastern Sectional Meeting; Gainesville, FL
9. "Computational Chemistry Studies of Europium (III) Metal-based   April 2019
   Coordination Complexes for Luminescent Applications"
   National Conference on Undergraduate Research; Kennesaw, GA
10. "The Asymmetric Index of a Graph and Families of Asymmetric Graphs"   March 2019
    MAA Southeastern Section Conference at Lee University; Cleveland, TN
11. "The Powerful Subgroup Covering Number of Dihedral 2-Groups"   January 2019
    Joint Mathematics Meetings Contributed Session; Baltimore, MD
12. "The Asymmetric Index of a Graph and Families of Asymmetric Graphs"   January 2019
    Joint Mathematics Meetings Special Session; Baltimore, MD

13. "The Asymmetric Index of a Graph"   November 2018
    Carolina Math Seminar at the University of South Carolina; Columbia, SC
14. "The Asymmetric Index of a Graph"   October 2018
    Western Carolina University Departmental Colloquium; Cullowhee, NC
15. "p-Groups Covered by Powerful p-Subgroups"   March 2018
    MAA Southeastern Section Conference at Clemson University; Clemson, SC
16. "Pattern Avoidance and Statistics of quasi-Stirling Permutations"   January 2018
    Joint Mathematics Meetings Undergraduate Poster Session; San Diego, CA
17. "Pattern Avoidance and Statistics of quasi-Stirling Permutations"   November 2017
    UNC Greensboro Regional Mathematics and Statistics Conference; Greensboro, NC
18. "Pattern Avoidance and Statistics of quasi-Stirling Permutations"   September 2017
    Western Carolina University Departmental Colloquium; Cullowhee, NC

ADDITIONAL RESEARCH EXPERIENCE

- "Computational Chemistry Studies of Uranium-based Materials   Spring 2018 - Spring 2019
  with Applications in Nuclear Waste Treatments"
  Western Carolina University; Cullowhee, NC
  Joint work with C. DeSilva and N. Joyner
- "Structure of Powerful p-Groups and their Subgroups"   Fall 2017 - Spring 2019
  Western Carolina University; Cullowhee, NC
  Joint work with R. Atanasov and A. Penland

SERVICE

- Chair for the Professional Development Seminar   Fall 2021 - Spring 2022
  University of Florida; Gainesville, FL
- Graduate student mentor to Fatima Akinola and Sean Mandrick   Fall 2021 - Spring 2024
  University of Florida; Gainesville, FL
- Committee member for Chancellor's Distinguished Teaching Award   Fall 2018 - Spring 2019
  Western Carolina University; Cullowhee, NC
- Hiring committee member for Mathematics Tutoring Center   Fall 2018 - Spring 2019
  Western Carolina University; Cullowhee, NC
- Advisory Board member for Mathematics Tutoring Center   Fall 2018 - Spring 2019
  Western Carolina University; Cullowhee, NC
- Departmental Office Assisstant   Fall 2018 - Spring 2019
  Mathematics & Computer Science Department
  Western Carolina University; Cullowhee, NC
- Departmental Student Ambassador   Fall 2017 - Spring 2019
  Mathematics & Computer Science Department
  Western Carolina University; Cullowhee, NC

AWARDS

- UF Mathematics Graduate Student Teaching Award   Fall 2022 - Spring 2023
  University of Florida; Gainesville, FL
- Dean's Outstanding Scholar Award   Fall 2018 - Spring 2019
  Western Carolina University; Cullowhee, NC
- Senior Mathematics Excellence Award   Fall 2018 - Spring 2019
  Western Carolina University; Cullowhee, NC

- Walt and Susan Patterson Prize ($100) – Outstanding Presentation   March 2019
  MAA Southeastern Section Conference at Lee University; Cleveland, TN
- Mathematics Jeopardy Contest (First Place)   March 2019
  MAA Southeastern Section Conference at Lee University; Cleveland, TN
- Crum Mathematics Scholarship   Fall 2017 - Spring 2019
  Western Carolina University; Cullowhee, NC
- Curtis and Enid Meltzer Scholarship   Fall 2017 - Spring 2019
  Western Carolina University; Cullowhee, NC
- Freshman Mathematics Excellence Award   Fall 2015 - Spring 2016
  Western Carolina University; Cullowhee, NC
- Chancellor's List (3.8 GPA or higher)   Fall 2015 - Spring 2019
  Western Carolina University; Cullowhee, NC
- Chancellor's Academic Scholarship Award   Fall 2015 - Spring 2019
  Western Carolina University; Cullowhee, NC

EXTRACURRICULAR ACTIVITIES

- Mathematics Club
  President   Fall 2018 - Spring 2019
  Vice President   Fall 2017 - Spring 2018
  Member   Fall 2015 - Spring 2019
  Western Carolina University; Cullowhee, NC
- *Kryptos* – International Cryptanalysis Challenge
  Fourth place overall   Spring 2019
  Third place overall   Spring 2018
  Honorable mention   Spring 2017
- William Lowell Putnam Contest
  Score: 1 (B2)   Fall 2018
  Score: 0   Fall 2017
  Score: 0   Fall 2016
- Mathematics Jeopardy Team   Fall 2016 - Spring 2019
  Western Carolina University; Cullowhee, NC

REFERENCES

- Zachary Hamaker, Assisstant Professor
  University of Florida; Gainesville, FL
  e-mail: zhamaker@ufl.edu
- Sherry Tornwall, Master Lecturer Emeritus
  University of Florida; Gainesville, FL
  e-mail: tornwall@ufl.edu
- Darren Narayan, Professor
  Rochester Institute of Technology; Rochester, NY
  e-mail: dansma@rit.edu
- Risto Atanasov, Professor
  Western Carolina University; Cullowhee, NC
  e-mail: ratanasov@email.wcu.edu