

## Adam D. Gregory

14 October 1996

Updated September 2021

### Office Address

Department of Mathematics  
University of Florida  
PO Box 118105  
Gainesville, FL 32611-8105  
adamgregory@ufl.edu

## EDUCATION

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

Ongoing

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

May 2019

## TEACHING EXPERIENCE

- MAC2313 — Analytical Geometry & Calculus III  
University of Florida; Gainesville, FL  
Teaching Assistant  
Fall 2021
- MAC1147 — Precalculus, Algebra & Trigonometry  
University of Florida; Gainesville, FL  
Teaching Assistant  
Spring 2020
- MAC1147 — Precalculus, Algebra & Trigonometry  
University of Florida; Gainesville, FL  
Teaching Assistant  
Fall 2019
- MATH250 — Introduction to Logic & Proof  
Western Carolina University; Cullowhee, NC  
Teaching Assistant  
Fall 2018

## PUBLICATIONS

1. Pattern Restricted quasi-Stirling Permutations  
*Australas. J. Combin.* **74(3)** (2019), 389-407  
Joint work with K. Archer, B. Pennington and S. Slayden
2. 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
3. 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. Rodriguez

## PREPRINTS

4. The Asymmetric Index of a Graph  
Joint work with A. Brewer, E. Farnsworth, N. Gomez, Q. Jones, H. Lino and D. Narayan  
arXiv: 1808.10467

5. On Covers of Dihedral 2-Groups by Powerful Subgroups  
Joint work with R. Atanasov, L. Guatelli and A. Penland  
arXiv: 1901.03372

### PRESENTATIONS

- |   |                |
|---|----------------|
| 1. "The Asymmetric Index of a Graph"<br>University of Florida Combinatorics Seminar; Gainesville, FL  | November 2019  |
| 2. "Pattern Restricted quasi-Stirling Permutations"<br>AMS Fall Southeastern Sectional Meeting; Gainesville, FL   | November 2019  |
| 3. "Computational Chemistry Studies of Europium(III) Metal-based<br>Coordination Complexes for Luminescent Applications"<br>National Conference on Undergraduate Research; Kennesaw, GA | April 2019     |
| 4. "The Asymmetric Index of a Graph and Families of Asymmetric Graphs"<br>MAA Southeastern Section Conference at Lee University; Cleveland, TN  | March 2019     |
| 5. "The Powerful Subgroup Covering Number of Dihedral 2-Groups"<br>Joint Mathematics Meetings Contributed Session; Baltimore, MD  | January 2019   |
| 6. "The Asymmetric Index of a Graph and Families of Asymmetric Graphs"<br>Joint Mathematics Meetings Special Session; Baltimore, MD   | January 2019   |
| 7. "The Asymmetric Index of a Graph"<br>Carolina Math Seminar at the University of South Carolina; Columbia, SC   | November 2018  |
| 8. "The Asymmetric Index of a Graph"<br>Western Carolina University Departmental Colloquium; Cullowhee, NC  | October 2018   |
| 9. " $p$ -Groups Covered by Powerful $p$ -Subgroups"<br>MAA Southeastern Section Conference at Clemson University; Clemson, SC  | March 2018     |
| 10. "Pattern Avoidance and Statistics of quasi-Stirling Permutations"<br>Joint Mathematics Meetings Undergraduate Poster Session; San Diego, CA   | January 2018   |
| 11. "Pattern Avoidance and Statistics of quasi-Stirling Permutations"<br>UNC Greensboro Regional Mathematics and Statistics Conference; Greensboro, NC                                  | November 2017  |
| 12. "Pattern Avoidance and Statistics of quasi-Stirling Permutations"<br>Western Carolina University Departmental Colloquium; Cullowhee, NC   | September 2017 |

### ADDITIONAL RESEARCH EXPERIENCE

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

### SERVICE

- |   |                     |
|---|---------------------|
| • Chair for the Professional Development Seminar<br>University of Florida; Gainesville, FL              | Fall 2021 - Ongoing |
| • Graduate student mentor to Fatima Akinola and Sean Mandrick<br>University of Florida; Gainesville, FL | Fall 2021 - Ongoing |

- Chancellor's Distinguished Teaching Award Committee  
Western Carolina University; Cullowhee, NC Fall 2018 - Spring 2019
- Mathematics Tutoring Center Hiring Committee  
Western Carolina University; Cullowhee, NC Fall 2018 - Spring 2019
- Mathematics Tutoring Center Advisory Board  
Western Carolina University; Cullowhee, NC Fall 2018 - Spring 2019
- Departmental Office Assistant  
Mathematics & Computer Science Department  
Western Carolina University; Cullowhee, NC Fall 2018 - Spring 2019
- Departmental Student Ambassador  
Mathematics & Computer Science Department  
Western Carolina University; Cullowhee, NC Fall 2017 - Spring 2019

### AWARDS

- Dean's Outstanding Scholar Award  
Western Carolina University; Cullowhee, NC Fall 2018 - Spring 2019
- Senior Mathematics Excellence Award  
Western Carolina University; Cullowhee, NC Fall 2018 - Spring 2019
- Walt and Susan Patterson Prize (\$100) – Outstanding Presentation  
MAA Southeastern Section Conference at Lee University; Cleveland, TN March 2019
- Mathematics Jeopardy Contest (First Place)  
MAA Southeastern Section Conference at Lee University; Cleveland, TN March 2019
- Crum Mathematics Scholarship  
Western Carolina University; Cullowhee, NC Fall 2018 - Spring 2019  
Fall 2017 - Spring 2018
- Curtis and Enid Meltzer Scholarship  
Western Carolina University; Cullowhee, NC Fall 2018 - Spring 2019  
Fall 2017 - Spring 2018
- Freshman Mathematics Excellence Award  
Western Carolina University; Cullowhee, NC Fall 2015 - Spring 2016
- Chancellor's List (3.8 GPA or higher)  
Western Carolina University; Cullowhee, NC Fall 2015 - Spring 2019
- Chancellors Academic Scholarship Award  
Western Carolina University; Cullowhee, NC Fall 2015 - Spring 2019

### 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  
Western Carolina University; Cullowhee, NC

Fall 2016 - Spring 2019

### INTERESTS

*Freedom; Universal Objective Truth; Consciousness; Natural Law & Morality; Symbolology; Nutrition*

### REFERENCES

- Risto Atanasov, Professor  
Western Carolina University; Cullowhee, NC  
Phone: (828)-227-3942      e-mail: ratanasov@email.wcu.edu
- Erin McNelis, Associate Professor  
Western Carolina University; Cullowhee, NC  
Phone: (828)-227-3947      e-mail: emcnelis@email.wcu.edu
- Darren Narayan, Professor  
Rochester Institute of Technology; Rochester, NY  
Phone: (585)-475-2514      e-mail: dansma@rit.edu
- Andrew Penland, Assistant Professor  
Western Carolina University; Cullowhee, NC  
Phone: (828)-227-2483      e-mail: adpenland@email.wcu.edu