

Amy C. Grady

Department of Mathematics
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Education

- **Clemson University** Clemson, SC
PhD in Mathematical Sciences *August 2018*
 - Dissertation: “Generalizations of Permutation Statistics to Words and Trees”
 - Advisor: Dr. Svetlana Poznanović
- **Clemson University** Clemson, SC
M.S. in Mathematical Sciences *May 2014*
 - Project: “q,t-Hook Length Formulas for Labeled Forests”
 - Advisor: Dr. Svetlana Poznanović
- **Appalachian State University** Boone, NC
B.S. in Mathematics *May 2012*
 - Concentration: Chemistry
 - Graduated magna cum laude with university and departmental honors

Employment

- **University of Florida** Gainesville, FL
Lecturer *August 2018-present*

Publications

1. A. Grady, S. Poznanović, Graphical Mahonian statistics on words, *Electronic Journal of Combinatorics*, 25 (2018), #P1.1.
2. A. Grady, S. Poznanović, Sorting index and Mahonian-Stirling pairs for labeled forests, *Advances in Applied Mathematics*, 80 (2016), 93-113.
3. A. Grady, F. Knoll, R. Laskar, DJ Lipman. Cycle Domination, Independence, and Irredundance in Graphs. *Congressus Numerantium*, 224 (2015), 159-174.
4. A. Grady, F. Knoll, D. J. Lipman. Clique Independence, Domination, and Irredundance in Graphs. *Congressus Numerantium*, 223 (2015), 193-198.

Teaching Experience

Teacher of Record

- MATH 1020- Business Calculus I, Fall 2014
- MATH 2070- Business Calculus II, Spring 2015 and Spring 2016
- MATH 1060- Calculus of One Variable 1, Fall 2015, and Fall 2017
- MATH 3110- Linear Algebra, Spring 2017
- MATH 1080- Calculus of One Variable II, Spring 2018

Teaching Assistant

- MATH 1040- Precalculus and Introductory Differential Calculus, Fall 2012

Teaching Experience Continued

Grader

- MATH 8530-Matrix Analysis, Spring 2013, Summer 2017, and Summer 2018
- MATH 1060-Calculus of One Variable 1, Summer 2016
- MATH 1020- Business Calculus I, Fall 2016
- MATH 2070- Business Calculus II, Summer 2015 and Fall 2016
- MATH 1040- Precalculus and Introductory Differential Calculus, Fall 2016

Tutor

- MATH 1060- Calculus of One Variable 1, Summer 2017
- MATH 2070- Business Calculus II, Summer 2016

Outreach Activities

- TA, Project WISE Summer Camp, Summers 2014 and 2015
A one week program engaging middle school females in coding theory and cryptography activities.
- TA, “We Do Math” Summer camp, Summer 2014
A one week program for high school females to participate in engineering and math classes.
- TA, STEM Day, April 2014
A recruiting program for high school students from underrepresented populations in engineering and science.
- Volunteer, Southeastern Conference for Undergraduate Women in Mathematics, Fall 2014 and 2013

Honors and Awards

- Outstanding Citizenship Award, Department of Mathematical Sciences, Clemson University, Spring 2017.
- Professional Enrichment Grant, Graduate Student Government, Clemson University, Summer 2014.
- Outstanding Masters Student Award, Department of Mathematical Sciences, Clemson University, Spring 2014.
- Graduate Teaching Assistantship, Department of Mathematical Sciences, Clemson University, 2012-2018.

Leadership

- President of AWM Student Chapter, Clemson University, Summer 2014-Summer 2016
- Treasurer of AWM Student Chapter, Clemson University, Fall 2013-Summer 2014 and Summer 2017-Summer 2018

Service and Volunteering

- Clemson Calculus Challenge, Volunteer, April 2013, 2015, and 2017
- Clemson University Math-In, Tutor, April 2015, April 2016, December 2018, April 2018
- Co-Organizer 12th Graduate student Combinatorics Conference, April 2016
- Math Scavenger Hunt, Design team, Clemson University Math Club, November 2014

Invited Presentations

1. “Some Permutation Statistics and their Generalizations to Trees”, Clemson University Math Club, (February 2018)
2. “Sorting Index and Mahonian-Stirling Pairs for Labeled Forests”, Algebra and Discrete Math Seminar, Clemson University (November 2017)
3. “Graphical Mahonian Statistics on Words”, 32nd Clemson Mini-Conference on Discrete Mathematic and Algorithms (November 2017)
4. “q-Hook Length Formulas for Labeled Forests” Graduate Student Seminar, Clemson University (March 2014)

Contributed Presentations

1. “Sorting Index and Mahonian-Stirling paris for labeled forests”, AMS Contributed Papers on Graphs and Their Applications, Joint Mathematics Meetings, San Diego (January 2018)
2. “Math Jeopardy”, Clemson University Math Club (April 2016)
3. “Second Year Guidelines”, Clemson University Graduate Student Seminar (September 2015)
4. “Sorting Index and Mahonian-Stirling Pairs for Labeled Forests” 30th Clemson Mini-Conference on Discrete Mathematics and Algorithms poster session, Clemson University (October 2015)
5. “Sorting Index and Mahonian-Stirling Pairs for Labeled Forests”, 11th Graduate Student Combinatorics Conference, Lexington, Kentucky (March 2015)
6. “Clique Independence, Domination, and Irredundance in Graphs”, 46th Southeastern International Conference on Combinatorics, Graph Theory, and Computing, Boca Raton FL (March 2015)
7. “Sorting Index and Mahonian-Stirling Pairs for Labeled Forests” 12th International Permutation Patterns Conference, Johnson City TN (July 2014)
8. “Applying to Grad School”, Panel hosted by Clemson University AWM student chapter (November 2013)

Conferences Attended

1. Triangle Lectures in Combinatorics (TLC), NC State University (February 2015)
2. 29th Clemson, Mini-Conference on Discrete Mathematics and Algorithms, Clemson University (October 2014)
3. TLC, Highpoint University (October 2014)
4. 10th Graduate Student Combinatorics Conference, Auburn University (April 2014)
5. 45th Southeastern International Conference on Combinatorics, Graph Theory, and Computing, Florida Atlantic University (March 2014)
6. 28th Clemson, Mini-Conference on Discrete Mathematics and Algorithms, Clemson University (October 2013)
7. TLC, NC State University (September 2013)

8. 27th Clemson, Mini-Conference on Discrete Mathematics and Algorithms, Clemson University
(November 2012)

Professional Memberships

- American Mathematical Society (AMS)
- Association for Women in Mathematics (AWM)