

Ariel Keller

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RESEARCH INTERESTS

Extremal Graph Theory, Structural Graph Theory

EDUCATION

2013-2018: Emory University, Atlanta, Georgia, USA

- Ph.D. in Mathematics (expected graduation date: May 2018)
- Advisor: Ronald J. Gould

2009-2013: University of Tennessee, Chattanooga

- Bachelor of Science in Applied Mathematics, Minor in Economics, May 2013
- Summa Cum Laude

PUBLICATIONS

On Vertex-Disjoint Cycles and Degree Sum Conditions; with Ronald J. Gould and Kazuhide Hirohata. Accepted by *Discrete Mathematics*.

PAPERS IN PROGRESS

On Chorded Cycles and Degree Sum Conditions; with Ronald J. Gould and Kazuhide Hirohata, in progress.

INVITED TALKS

“Degree Sum Conditions to Imply Cycles” Graduate Research Workshop in Combinatorics, University of Denver, July 2017.

“On Disjoint Cycles and Degree Conditions” Discrete Mathematics Seminar, Kennesaw State University, February 2017.

CONTRIBUTED TALKS

“On Disjoint Cycles and Degree Conditions” Forty-eighth Southeastern Int’l Conference on Combinatorics, Graph Theory, and Computing, Florida Atlantic University, March 2017.

“On Disjoint Cycles and Degree Conditions” Recent Advances in Linear Algebra and Graph Theory, University of Tennessee, Chattanooga, March 2016.

TEACHING

Emory University

Fall 2013 - Spring 2017

- Instructor of Record for Calculus II
- Instructor of Record for Calculus I
- Lab Instructor for Calculus I with Lab
- Teaching Assistant for Life Sciences Calculus I & II
- Teaching Assistant for Numerical Analysis
- Grader for Real Analysis
- Calculus Help Tutor

University of Tennessee, Chattanooga

Fall 2011

- Supplemental Instruction Leader for Macroeconomics

Chattanooga State Technical Community College Fall 2008-Spring 2009

- Tutor at Math Center

WORKSHOPS

- Graduate Research Workshop in Combinatorics at University of Denver and University of Colorado Denver, Summer 2017
- TATTO “Teaching Assistant Training and Teaching Opportunity program” Teaching Workshop at Emory University, Summer 2014
- Summer REU in Biomedical Informatics at the University of Tennessee, Chattanooga under the supervision of Dr. Yu Cao: Smartphone-Based Fall Detection, Summer 2012

**SERVICE &
VOLUNTEER
WORK**

- Organized a weekly “Paper Triage” informal seminar for combinatorics students at Emory, Fall 2017.
- SIAM Conference Volunteer, SIAM Conference on Discrete Mathematics, June 2016
- Assisted with hosting the Atlanta Lecture Series in Combinatorics and Graph Theory XVIII & XIII at Emory University, Oct. 2016 & Nov. 2014
- Vice President & Treasurer for the Graduate Computer Science & Math Society at Emory, Fall 2015-Spring 2016
- Organized UTC’s annual Pi Mu Epsilon Sudoku Competition, Fall 2012
- Assisted the UTC Mathematics Department with Freshman Friday, Fall 2012

**AWARDS &
MEMBERSHIPS**

- American Mathematical Society, 2013-present
- Pi Mu Epsilon, 2011-present
- Ruth Clark Perry Memorial Mathematics Award, April 2013
Presented annually by UTC Math Department “For outstanding academic performance as an upper class woman majoring in Mathematics.”
- Chancellor’s Scholarship, 2009-2013

**PROGRAMMING
SKILLS**

- Java
- C++
- Objective-C