Daniel Condon

Curriculum Vitæ

Education

2011–2014 **B.S. Applied Mathematics**, *Georgia Institute of Technology*.

2015–2017 **M.A. Mathematics**, *Indiana University*, Bloomington.

2015–present **Ph.D. Candidate Mathematics**, *Indiana University*, Bloomington.

Research Interests

Algebraic and Enumerative Combinatorics, Voting Theory

Teaching

Indiana University

Fall 2020 **M118 Finite Mathematics**, *Assistant Instructor*.

Summer 2020 **M106 The Math. of Decision and Beauty**, *Online Co-Instructor*.

Spring 2020 **M106 The Math. of Decision and Beauty**, *Assistant Instructor*.

Fall 2019 **M118 Finite Mathematics**, *Instructor of Record*.

Fall 2019 **V118 Finite Math. with Applications**, *Assistant Instructor*.

Summer 2019 **M106 The Math. of Decision and Beauty**, *Instructor of Record*.

Spring 2019 **M106 The Math. of Decision and Beauty**, *Instructor of Record*.

Fall 2018 **M106 The Math. of Decision and Beauty**, *Instructor of Record*.

Summer 2018 **M106 The Math. of Decision and Beauty**, *Course Developer*.

- Developed teaching materials and resources for a general education course in popular mathematics.
- Helped organize graduate student instructors.

Spring 2018 **D116 Introduction to Finite Math. 1**, *Instructor of Record*.

Fall 2017 **M106 The Math. of Decision and Beauty**, *Instructor of Record*.

Spring 2017 **M106 The Math. of Decision and Beauty**, *Assistant Instructor*.

Fall 2016 **M018 Basic Algebra for Finite Mathematics**, *Instructor of Record*.

Summer 2016 **M118 Finite Mathematics**, *Instructor of Record*.

Georgia Institute of Technology

Fall 2014 **MATH 1502 Calculus 2**, *Recitation Leader*.

Spring 2014 **Math Lab Tutor**.

Spring 2014 **MATH 1502 Calculus 2**, *Recitation Leader*.

Fall 2013 **MATH 1501 Calculus 1**, *Recitation Leader*.

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Awards

2020 David A. Rothrock Mathematics Fellowship

2019 Schober Travel Award

2018 David A. Rothrock Teaching Award

Service

2020–present **Machine Learning for Research Club Treasurer**, *Indiana University*.

2020–present **Peer Mentoring Program Organizer**, *Indiana University Department of Mathematics*.

2019 – 2020 **Grad Student Combinatorics Seminar Organizer**, *Indiana University Department of Mathematics*.

Spring 2019 **Directed Reading Program Mentor**, *Indiana University Department of Mathematics*.

Fall 2018 **Science Fest Volunteer**, *Indiana University*.

Fall 2018 **Directed Reading Program Mentor**, *Indiana University Department of Mathematics*.

Talks

Fall 2020 **Intersections of Schubert Varieties in the Grassmannian, Part 1.** Algebraic Combinatorics Seminar, *Indiana University Department of Mathematics*.

Spring 2020 **Decision Trees.** Machine Learning Seminar, *Indiana University Department of Mathematics*.

Spring 2020 **Polyominoes.** Grad Student Combinatorics Seminar, *Indiana University Department of Mathematics*.

Spring 2020 **Combinatorial Game Theory.** Grad Student Combinatorics Seminar, *Indiana University Department of Mathematics*.

Spring 2020 **Voting Theory.** Grad Student Combinatorics Seminar, *Indiana University Department of Mathematics*.

Fall 2019 **Constraint Programming in Combinatorics.** Grad Student Combinatorics Seminar, *Indiana University Department of Mathematics*.

Fall 2019 **Combinatorial Designs and Finite Geometries** Grad Student Combinatorics Seminar, *Indiana University Department of Mathematics*.

Fall 2019 **Generating Functions and Sicherman Dice** Grad Student Combinatorics Seminar, *Indiana University Department of Mathematics*.

2014 **The Colored Cubes Problem.** Joint Math Meetings Combinatorics Session

Papers

Preprints

Tilings of Dented Half Hexagons. in preparation

Published

Lozenge Tiling Function Ratios for Hexagons with Dents on Two Sides. *Electron. J. Combin.* Vol. 27-3 (2020)

The Color Cubes Puzzle with Two and Three Colors (with Ethan Berkove, David Cervantes Nava, and Rachel Katz) *The Mathematics of Various Entertaining Subjects* Vol. 2 (2017) pp. 125-140

Automorphisms of S_6 and the Colored Cubes Puzzle (with Ethan Berkove, David Cervantes Nava, and Rachel Katz) *Australas. J. Combin.* Vol. 68 (2017) pp. 71-93

On Generalizations of Separating and Splitting Families. (with Samuel Coskey, Luke Serafin, and Cody Stockdale) *Electron. J. Combin.* Vol. 23 -3 (2016)