

Mark Saving

(972) 533-9024

marksaving@utexas.edu

1215 Stratford Dr. Richardson, TX 75080

EDUCATION

Bachelor of Arts in Physics and Computer Science | Rice University

August 2017 – May 2023

GPA: 3.75 (4.08 scale)¹

Major GPAs: 3.77 (physics), 3.87 (computer science)

Ph.D. Student in Mathematics | University of Texas at Austin

August 2024 – Present

TEACHING + SERVICE

Teaching Assistant | University of Texas at Austin

August 2024–Present

- I serve as teaching assistant for M427J: Differential Equations and Linear algebra. Previously served as TA for M427L, a differential equations course, with similar responsibilities
- I lead twice-weekly discussion and problem-solving sessions, grade weekly quizzes, host twice-weekly office hours, and assist with grading examinations

Directed Reading Program Mentor | University of Texas at Austin

January 2025–Present

- I mentor an undergraduate student studying extracurricular mathematical topics, meeting weekly
- Currently studying Homotopy Type Theory

Head Fellow of Will Rice College | Rice University

Jan 2019-Dec 2020

- Directed and organized free tutoring program for my residential college of 300 students
- Interviewed and selected new Academic Fellows
- Taught incoming Fellows teaching skills

Academic Fellow of Will Rice College | Rice University

¹ Freshman year was on a 4.33 scale; all other years were on a 4.00 scale

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Jan 2018-Dec 2020

- Provided frequent, free tutoring in mathematics, computer science, and physics for fellow students in my residential college

Teaching Assistant | Rice University

August 2018–December 2018

- Taught in-class for Rice's introductory computer science course, COMP 140
- Flipped curriculum: students watched videos at home, and I guided students through exercises in class
- Hosted weekly office hours, exam review sessions with my own practice test

PUBLICATIONS

Mark Saving. *On the Existence and Disjunction Properties in Structural Set Theory*. Under review at Annals of Pure and Applied Logic. 2023. [arXiv: 2312.03717](https://arxiv.org/abs/2312.03717) [math.LO].

AWARDS/HONORS

Frank Gerth III Graduate Excellence Award | University of Texas at Austin

Nov 2024

- Awarded for exceptional performance on preliminary examinations
- I earned credit for seven courses by passing preliminary examinations at the beginning of my first semester, including one perfect score and two high passes

Advanced to ICPC North American Championship | Rice University Team

Feb 2020

- Three-person team computer programming competition
- Top 60 universities from North America competed for a chance at the world finals; we placed 35th

Putnam Competition Top 200 (2019), top 500 (2018, 2017) | Rice University

- US and Canada-wide undergraduate mathematics competition

National Academic Decathlon 2nd Place | Madison, Wisc.

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Apr 2017

- Earned 2nd-highest overall individual score in the Academic Decathlon National Meet
- Earned 1st or 2nd place in 8 of 10 events

Mickey Andress Award of Excellence | Frisco, TX

Feb 2017

- Earned for being the highest scoring Academic Decathlon competitor overall at the Texas State meet
- Also earned individual medals in 7 of 10 events

Eagle Scout | Boy Scouts of America

Dec 2016