

Joseph Miller

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Education

University of Texas - Austin

Ph.D. Student 2018 –
5 year program in mathematics

University of California - Los Angeles

B.S. 2015 – 2018
Completed with departmental honors in mathematics

Experience

University of Texas - Austin

Directed Reading Project Mentor 2019 –
Mentored an undergraduate student to study an advanced topic in mathematics, culminating in a student presentation.

Los Angeles Math Circle

Assistant Instructor 2017 – 2018
Created problem sets and guided discussions alongside graduate students at UCLA to introduce high school students to advanced topics in mathematics.

University of California - Los Angeles

Grader 2016 – 2017
Graded homework assignments for mathematics classes including upper division linear algebra and multivariable calculus.

Awards

Provost's Graduate Excellence Fellowship

University of Texas - Austin 2018
Provides 5 years of financial support with 3 years of full financial support without teaching duties.

VIGRE REU

University of California - Los Angeles 2017
NSF funded summer project to conduct research in pure mathematics.

Conferences Attended/Attending

ENS de Lyon: Scaling Limits in Kinetic Theory *September 30th - October 4th, 2019*

UT Austin: Fitting Smooth Functions to Data *August 5th - August 9th, 2019*

Universitat de Barcelona: Barcelona Analysis Conference *June 25th - June 28th, 2019*

Languages

English: Native

Mandarin: Proficient

Graduate Course List

University of Texas - Austin

2018 –

- Probability II - M385D
- Fluid Mechanics - M393C
- Supervised Reading Course (with Nataša Pavlović)
- Applied Mathematics I - M383C
- Probability I - M385C
- Passed Preliminary Exams in Analysis I, Probability I, and Applied I

University of California - Los Angeles

2015 – 2018

- Topics in Complex Analysis - Math246C
- Complex Analysis II - Math 246B
- Complex Analysis I - Math 246A
- Topics in Real Analysis - Math245C
- Real Analysis II - Math245B
- Real Analysis I - Math245A

Publications

- [1] J. Lyons and J. Miller. The derivative of a solution to a second order parameter dependent boundary value problem with a nonlocal integral boundary condition. *Journal of Mathematical and Statistical Science*, 1(2), 2015.