

Jennifer Zhu

Updated August 30, 2021
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📄 <https://jenniferz42.github.io/>

Education

- 2021 - present **PhD, Pure Mathematics - Quantum Information**, *University of Waterloo*.
2019 - 2021 **PhD, Mathematics**, *Texas A&M University*.
2015 - 2018 **Bachelor of Arts, Mathematics**, *University of California, Berkeley*.

Research Interests

Operator algebras, quantum information theory.

Papers

The Bullet Problem with Discrete Speeds. B. Dygert, M. Junge, C. Kinzel, A. Raymond, E. Slivken, J. Zhu. *Electronic Communications in Probability*, Volume 24, Issue 27 (2019), pp. 1 - 11. (Result of a REU during 2016.).

Talks

- Jun 25, 2021 **Mermin-Peres Magic Square Game**
Texas A&M REU: Graduate Student Talks Texas A&M University
(online)
- Oct 10, 2020 **What Can We See Through Our Hahn-Banach-ulars?**
A Gathering in Graduate Expository Mathematics (GIG'EM) Conference Texas A&M University
(online)

Awards

- 2021 **Provost Doctoral Entrance Award for Women**
\$2500; non-recurring University of Waterloo
- 2019 - 2021 **R.E. Basye Graduate Merit Fellowship**
\$32,000 stipend the first year with no duties, additional \$7800 per year for five years Texas A&M University

Teaching

- Spring 2021 **Recitations**, Math 152: Engineering Mathematics II
Proctored and graded tests, created review material based on lecture notes, answered questions in class, by email, and via Piazza. Texas A&M University
- Fall 2020 **Recitations**, Math 147: Calculus I for Biological Sciences

Proctored and graded tests, created review material based on lecture notes, answered questions in class and by email. Texas A&M University

Service

Conferences

Fall 2020 **Advocating for Students of Color** AMS (online)
 Nov 20 - 22, 2020 **AMS paraDIGMS Fall Conference** IMSI (online)

Leadership

American Mathematical Society Graduate Student Chapter Texas A&M University
 2020 - 2021 Treasurer
TAMU Math Graduate Student Diversity Committee Texas A&M University
 Spring 2021 Vice President
 Fall 2020 Co-founder

Mentorship

Directed Reading Program (DRP) Mentor Texas A&M University
 Fall 2020 Guided an undergraduate through applications of linear algebra to mathematical biology.

Membership

Spring 2020 - present **Operator Algebras Mentor Network (OAMN) Mentee**

Outreach

Spring 2021 **Math/Stats Fair Volunteer**
 Texas A&M University

Workshops Attended

August 27, 2021 **OAMN Mentorship Training: Diversity, Equity, and Inclusion**

Participated in a workshop led by Dr. Chandra Erdman and Erin Brown highlighting mentors can use their advantages to mitigate disadvantages mentees might face.

June 21 - July 30, 2021 **Math-to-Industry Boot Camp** IMA, University of Minnesota (online)

- Intense six-week program providing PhD students in mathematics necessary skills to work outside of academia.
- Took short courses on Python, R, data analysis, machine learning, stochastic modeling, optimization.
- Participated in team and leadership building exercises.
- Worked in a team to predict energy generated by hydroelectric dams in Brazil using Github to share code and data.

Jun 29 - Jul 19, 2020 **Groundwork for Operator Algebras Lecture Series (GOALS)** University of Michigan (online)