# Jennifer Zhu

*Updated December 25, 2021*
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## Education

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|---|---|
| 2021 - present | **PhD, Pure Mathematics - Quantum Information**, *University of Waterloo* |
| 2019 - 2021 | **PhD, Mathematics**, *Texas A&M University* |
| 2014 - 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

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

## Awards

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| Winter 2022 | **Cotton Family Women in Mathematics Graduate Scholarship** | University of Waterloo |
| | $1500; non-recurring | |
| 2021 | **Provost Doctoral Entrance Award for Women** | University of Waterloo |
| | $2500; non-recurring | |
| 2019 - 2021 | **R.E. Basye Graduate Merit Fellowship** | Texas A&M University |
| | $32,000 stipend the first year with no duties, additional $7800 per year for five years | |

## Teaching

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| Fall 2021 | **Grader**, Math 116, Math 117 | University of Waterloo |
| Spring 2021 | **Recitations**, Math 152: Engineering Mathematics II (4.23/5) | Texas A&M University |

Proctored and graded tests, created review material based on lecture notes, answered questions in class, by email, and via Piazza. Rating based on fostering an effective learning environment, effectiveness of teaching methods, helpfulness of online materials.

Fall 2020 **Recitations**, Math 147: Calculus I for Biological Sciences (3.96/5)   Texas A&M University

Proctored and graded tests, created review material based on lecture notes, answered questions in class and by email. Rating based on fostering an effective learning environment.

## Service

### Conferences

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

### Leadership

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| **American Mathematical Society Grad Student Chapter** | Texas A&M University |

   2020 - 2021: Treasurer

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| **Institute of Quantum Computing Community Committee** | University of Waterloo |

   Winter 2022: Member

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| **TAMU Math Graduate Student Diversity Committee** | Texas A&M University |

   Spring 2021: Vice President
   Fall 2020: Co-founder

### Mentorship

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| **Directed Reading Program (DRP) Mentor** | Texas A&M University |

   Fall 2020: Guided an undergraduate through applications of
      linear algebra to mathematical biology.

### Membership

**Operator Algebras Mentor Network (OAMN)**

   Spring 2020 - present: Mentee

### Outreach

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

## Workshops Attended

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

Workshop led by Dr. Chandra Erdman and Erin Brown highlighting how mentors can use their advantages to mitigate disadvantages mentees might face.

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

- 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

Workshop consisting of lectures, problem sessions, and talks introducing graduate students to operator algebras.