

# Danielle Wang

Curriculum Vitae

## PERSONAL DETAILS

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*e-mail*                      daniellew@berkeley.edu  
*Website*                    <https://danielleywang.github.io>

## EDUCATION

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**Doctor of Philosophy** 2024  
*Massachusetts Institute of Technology*

PhD in Mathematics from the Massachusetts Institute of Technology. Advisor: Wei Zhang.

**Bachelor of Science** 2019  
*Massachusetts Institute of Technology*

B.S. in Mathematics from the Massachusetts Institute of Technology.

## PUBLICATIONS AND PREPRINTS

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Wang, D. (2023). *Twisted Gan–Gross–Prasad conjecture for unramified quadratic extensions*. <https://arxiv.org/abs/2307.15234> *Submitted*.

Vemulapalli, S. and Wang, D. (2021). *Uniform bounds for the number of rational points on symmetric squares of curves with low Mordell–Weil rank*. <https://arxiv.org/abs/1708.07057> *Acta Arithmetica*, **199**(4) 331–359.

Wang, D. (2019). *The Eulerian distribution on involutions is indeed  $\gamma$ -positive*. <https://arxiv.org/abs/1808.08481> *Journal of Combinatorial Theory Series A*, **165** 139–151.

Berger, A. and Wang, D. (2019). *Modified Erdős–Ginzburg–Ziv Constants for  $\mathbb{Z}/n\mathbb{Z}$  and  $(\mathbb{Z}/n\mathbb{Z})^2$* . <https://arxiv.org/abs/1808.08486> *Discrete Mathematics*, **342**(4) 1113–1116.

Wang, D. (2019). *On roots of Wiener polynomials of trees*. <https://arxiv.org/abs/1807.10967> *Discrete Mathematics*, **343**(1) 111643.

## INVITED TALKS

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Texas Oklahoma Representations and Automorphic forms XIII	Apr 12-14, 2024
UT Austin Number Theory seminar	Mar 19, 2024
Johns Hopkins Junior Number Theory Days	Feb 10-11, 2024
AIM Workshop “Arithmetic intersection theory on Shimura varieties”	Jan 8-12, 2024
Duke Number Theory Seminar	Oct 4, 2023
BC NT/RT seminar	Oct 28, 2023
Johns Hopkins Number Theory Seminar	Sep 9, 2023
Arizona Algebra and Number Theory Seminar	Mar 28, 2023

## FUTURE INVITATIONS

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BIRS Workshop “Branching Problems for Representations of Real, P-Adic and Adelic Groups”	July 2024
AMS San Antonio Special Session “L-functions and Automorphic Forms”	September 2024

## FELLOWSHIPS AND AWARDS

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MSRI Lauter Graduate Fellow	2023
Alice T. Schafer Prize Runner-Up	2019
NSF Graduate Fellowship	2019
MIT Presidential Fellow	2019
William Lowell Putnam Competition N1	2018
Elizabeth Lowell Putnam Award	2015, 2018
USA Mathematical Olympiad (USAMO) Winner	2015

## TEACHING AND WORK EXPERIENCE

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<b>Teaching Assistant</b> <i>18.510</i> Graded for the class 18.510 Intro to Mathematical Logic and Set Theory at MIT during Fall 2023	Fall 2023
<b>Teaching Assistant</b> <i>18.02</i>	Fall 2022

Taught recitation for the introductory class 18.02 Multivariable Calculus at MIT during Fall 2022.

**Study Group Leader (Virtual)**

Mar 5 – 9 2022

*Arizona Winter School*

Led a virtual study group during the 2022 Arizona Winter School on automorphic forms beyond  $GL_2$ .

**Mentor**

January 2022

*Directed Reading Program*

Mentored a pair of undergraduate students for the Directed Reading Program offered by the MIT math department.

**Mentor**

June – August 2020

*UROP+*

Mentored a student in a combinatorics research project for UROP+, an undergraduate research program offered by the MIT math department.

**Teaching Assistant**

June 2016, 2018, 2019

*Math Olympiad Summer Program*

Graded for the Math Olympiad Summer Program, the training camp for the USA International Math Olympiad (IMO) team.

**Instructor**

July – August 2017

*A-Star Summer Math Camp*

Taught the Pre-MathCounts class at the A-Star Summer Math Camp in 2017.

**Instructor**

December 2015

*A-Star Winter Math Camp*

Taught the USAMO/USAJMO class at the A-Star Winter Math Camp in 2015.