Danielle Wang

Curriculum Vitae

PERSONAL DETAILS

Address	4238 Monet Circle, San Jose CA, 95136
Birth	June 6, 1997
e-mail	diwang@mit.edu
Website	https://danielleywang.github.io

EDUCATION

PhD Candidate Expected in 2024

Massachusetts Institute of Technology

Candidate for PhD in Mathematics from the Massachussetts 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

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 γ-positive*. https://arxiv.org/abs/1808.08481 *Journal of Combinatorial Theory Series A*, **165** 139-151.

Berger, A. and Wang, D. (2019). *Modified Erdös–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 (SEMINARS AND CONFERENCES)

Banff Workshop "Branching Problems for Representations of Real, P-Adic and Adelic Groups"	July 2024
Texas Oklahoma Representations and Automorphic forms XIII	April 2024
AIM Workshop "Arithmetic intersection theory on Shimura varieties"	January 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

FELLOWSHIPS AND AWARDS

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

Teaching Assistant Fall 2023
18.510

Graded for the class 18.510 Intro to Mathematical Logic and Set Theory at MIT during Fall 2023

Teaching Assistant Fall 2022
18.02

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.