

Freda Li

Contact

Department of Mathematics
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Education

Wesleyan University, Middletown, CT
Ph.D. Student in Mathematics Expected May 2020
Advisor: Wai Kiu Chan

Bryn Mawr College, Bryn Mawr, PA
B.A./M.A., Mathematics May 2014

Research

Interests

Quadratic Forms, Hermitian Forms, Number Theory

Teaching

Instructor, Wesleyan University

Graduate Pedagogy Fall 2019

Sole instructor, discussion based course with topics and materials
chosen by myself.

Elements of Calculus Part I Fall 2018

Sole instructor during meeting hours, course materials created in
conjunction with a senior faculty member.

Introductory Calculus II, Spring 2016

Sole instructor during meeting hours, course materials created in
conjunction with fellow instructors and senior faculty mentor.

Graduate Teaching Assistant, Wesleyan University

Multivariable Calculus Spring 2019

Held weekly TA sessions and lectured one week of the course.

Automata Theory and Formal Languages Spring 2018

Held weekly office hours and graded homeworks.

Introduction to Programming Fall 2017

Held weekly TA sessions for exams and graded homeworks.

Automata Theory and Formal Languages Spring 2017

Held weekly office hours and graded homeworks.

Calculus I Fall 2015

Held weekly TA sessions, and aided in grading exams.

Multivariable Calculus Spring 2015

Held weekly TA sessions, and wrote homework solutions.

Vectors and Matrices Fall 2014

Held weekly TA sessions, and graded homeworks.

Math Workshop, Wesleyan University
 Tutor Fall 2016, Fall 2019
 Tutored students from a variety of mathematics courses.

Mentoring **Directed Reading Program, Wesleyan University**
 Quadratic Forms Spring 2019
 Mentored a student one on one in reading through quadratic forms notes.

Conferences & Workshops **Joint Mathematics Meetings** January 2020
 Denver, CO.
Graduate Student Conference in Algebra, Geometry, and Topology June 2019, 2018, 2017
 Temple University.
Beyond the Binary May 2019
 University of Hartford.
Women in Mathematics in New England September 2019, 2018, 2017
 Smith College.
Strength In Numbers May 2018
 Queen's University.
Upstate Number Theory Conference April 2018
 University at Buffalo.
Sage Days 87: p-adics in Sage and the LMFDB July 2017
 University of Vermont.
Upstate New York Number Theory Conference May 2017
 Binghamton University.
Mid-Atlantic Mathematical Logic Seminar October 2017
 Wesleyan University.
Joint Mathematics Meetings January 2017
 Atlanta, GA.
Southern New England Conference on Quadratic Forms and Modular Forms June 2016
 Wesleyan University.

Talks **AWM Graduate Student Poster Session** January 2020
 Joint Math Meetings, Denver, CO. Strictly n -regular Hermitian lattices.
MAA General Contributed Paper Session on Number Theory, Part I January 2020
 Joint Math Meetings, Denver, CO. Regularity conditions on Hermitian lattices.
Women in Mathematics in New England September 2019
 Smith College. Quadratic and Hermitian Forms.
Graduate Student Conference in Algebra, Geometry, and Topology June 2019
 Temple University. Similarity classes of certain Hermitian lattices.
Wesleyan University Algebra Seminar December 2018
 Wesleyan University. On strictly regular Hermitian lattices over imaginary quadratic fields.
Graduate Student Seminar
 Wesleyan University.
 – Why inert primes are just the right amount of interesting. March 2019
 – Watson transformations. October 2018

- Building Cacti and Trees: A reconstruction problem in graph theory. March 2018
- Skewing Things: An introduction to Hermitian forms. November 2017
- An introduction to quadratic Forms. March 2017
- Classifying universal ternary \mathbb{Z}_p -lattices. December 2016

Service

Co-organizer Graduate Student Seminar, Wesleyan University.	January 2019 - Present
Co-founder and President AWM Grad Student Chapter, Wesleyan University.	September 2018 - Present
Committee Member Directed Reading Program, Wesleyan University.	September 2018 - Present
Graduate Student Panel <i>Women in Mathematics in New England</i> conference, Smith College.	September 2019
Treasurer AMS Grad Student Chapter, Wesleyan University.	September 2017 - July 2019
Graduate Student Representative <i>Beyond the Binary</i> conference, University of Hartford.	April 2019
Housing Committee Member Graduate Student Association, Wesleyan University.	August 2015 - June 2016

References

Wai Kiu Chan (advisor) Department of Mathematics & Computer Science Wesleyan University wkchan@wesleyan.edu	David Pollack (teaching and research) Department of Mathematics & Computer Science Wesleyan University dpollack@wesleyan.edu
	Constance Leidy (teaching) Department of Mathematics & Computer Science Wesleyan University cleidy@wesleyan.edu