

EDUCATION

Ph.D. Mathematics, University of Delaware expected 2020
Adviser: Felix Lazebnik

M.S. Mathematics, University of Delaware 2017

B.S. Mathematics, Muhlenberg College 2015
Minor in Women and Gender Studies
Magna Cum Laude graduation honors

TEACHING EXPERIENCE

University of Delaware, Department of Mathematical Sciences

› **Sole Instructor:** Analytic Geometry and Calculus A, Finite Mathematics with Applications, Calculus I 2017–19

› **Teaching Assistant:** Analytic Geometry and Calculus A, Discrete Mathematics I,
Finite Mathematics with Applications, Calculus I 2015–19

RESEARCH EXPERIENCE

University of California, Berkeley, Mathematical Sciences Research Institute (MSRI)

› **Summer Graduate School,** Polynomial Method 2019

University of Delaware, Department of Mathematical Sciences

› **Algebraically Defined Graphs and Generalized Quadrangles,** Adviser: Felix Lazebnik 2016–19

Muhlenberg College, Mathematics and Computer Science Department

› **Admissible Curvatures of Integral Apollonian Packings,** Advisers: Byungchul Cha and Daniel File 2013-15

PRESENTATIONS

Graph Saga: an Adventure in Extremal Graph Theory

› **Shippensburg University, Math Department Seminar,** invited speaker September 2019

Some Properties of q -lifts of the Biaffine Part of $PG(2,q)$

› **The 14th International Conference on Finite Fields and their Applications** June 2019

“This Piece Should Go Here”: Math Research, Algebraically Defined Graphs, and Automorphism Groups

› **Muhlenberg College, Math/CS Colloquium Series,** invited speaker March 2019

Automorphism Groups of Covers of some Algebraically Defined Graphs › University of Delaware, Winter Research Symposium, poster presentation	February 2019
Finding BiGFOOT: Algebraically Defined Graphs and Generalized Quadrangles › Muhlenberg College REU, invited speaker	July 2017
The Joy of Hex: Finding 6-Cycles in Graphs over Finite Fields › University of Delaware, Hallenbeck Graduate Student Seminar	March 2017
Algebraically Defined Graphs: an Introduction › University of Delaware, Summer Research Seminar	August 2016
Efficient Computations of Integral Apollonian Packings › Temple University, Philadelphia Undergraduate Mathematics Conference Series	April 2015
The Local-to-Global Principle of Apollonian Circle Packings: What It Is and How to Show It › University of the Sciences, EPaDel Section Meeting of the MAA	October 2014
Congruence Conditions of Integral Apollonian Packings › University of Scranton, EPaDel Section Meeting of the MAA	April 2014

SERVICE AND OUTREACH

Undergraduate Outreach Chair › Association for Women in Mathematics, University of Delaware chapter	2018-19
Special Session Facilitator › The 14 th International Conference on Finite Fields and their Applications	June 2019
Problem Writer and Volunteer › Delaware Science Olympiad	Spring 2019
Referee › Paper for <i>Discrete Mathematics</i>	2018
Special Session Facilitator › American Mathematical Society Fall Eastern Sectional Meeting	September 2018
Local Organizing Committee › Algebraic and Extremal Graph Theory Conference, in honor of Haemers, Lazebnik, and Woldar	August 2017
Assistant Organizer › Discrete Seminar, University of Delaware	2017