

ISAIAH SIEGL

isaiahsiegl@gmail.com

<https://sites.math.washington.edu/~isiegl/>

EDUCATION

University of Washington
Ph.D Candidate in Mathematics
Advisor: Sara Billey

Expected: June, 2027

Drexel University
B.S. in Mathematics

June, 2022

PUBLICATIONS AND PREPRINTS

1. "Schur-Positive Symmetric Functions from Products: Log-Majorization, Total-Positivity, and PSD Matrices"
In Preparation
2. "Toward Lower Bounds for Chromatic Symmetric Functions in the Elementary Basis"
(arXiv:2509.02841)
3. "Cylindric P -tableaux for $(\mathbf{3} + \mathbf{1})$ -free Posets"
Combinatorial Theory (2025)
4. "Noncommutative Schur Functions for Posets" (with J. Blasiak, H. Eriksson, P. Pylyavskyy)
Selecta Mathematica (2025)

TALKS

Conference Talks

AMS Southeast Spring Sectional
Savannah, Georgia

March, 2026

AMS Southwest Fall Sectional
Tempe, Arizona

November, 2026

Seminar Talks

CAGE Seminar, University of Pennsylvania/ Drexel University
Combinatorics Seminar, Fields Institute
Combinatorics Seminar, UC San Diego
Combinatorics Seminar, Washington University
Combinatorics Seminar, University of Washington
CAGE Seminar, University of Pennsylvania/ Drexel University

September, 2026
March, 2026
February, 2026
April, 2024
November, 2023
April, 2022

AWARDS AND HONORS

Jane Street Scholarship
Walter J. Michaelis Graduate Fellowship
Birnbaum Fellowship
Provost Scholarship
Yilin Yang Undergraduate Research Award
Frank H.M. Williams Prize
Robert J. Bickel Mathematics Scholarship
Presidential Scholarship

University of Washington 2026
University of Washington 2025
University of Washington 2022
University of Washington 2022
Drexel University 2022
Drexel University 2020
Drexel University 2019
Drexel University 2017-2022

TEACHING

Instructor of Record	
MATH407 Linear Optimization	Summer 2025
MATH208 Linear Algebra	Summer 2024
Teaching Assistant	
MATH124 Calculus I	Au 22, Wi 23, Wi 24, Sp 24, Au 24, Au 25
MATH125 Calculus II	Winter 2026
MATH126 Calculus III	Sp 23, Su 23
MATH207 Differential Equations	Spring 2026
MATH407 Linear Optimization	Wi 25, Sp 25
MATH464 Numerical Analysis I	Autumn 2023
Directed Reading Program	
Combinatorics	Autumn 2023,
<i>Combinatorics by Nick Loehr</i>	
Graph Theory	Winter, Spring 2026
<i>Introduction to Graph Theory by Douglas West</i>	
Washington Experimental Math Lab	
Extremal Growth of Groups	Spring 2024