Kyla Pohl

Mathematics PhD Candidate – Graduate Employee

PRONOUNS: she/her
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RESEARCH INTERESTS

I work in combinatorics with specific interest in Jack symmetric functions and hook length formulas.

EDUCATION

University of Oregon, PhD   *Expected: June 2025*
Mathematics
Advisor: Ben Young

University of Oregon, MS   *June 2021*
Mathematics

St. Olaf College, Bachelor of Arts, *magna cum laude*   *May 2019*
Major: Mathematics, Concentration: Japan Studies

Budapest Semesters in Mathematics Summer Program   *June-Aug 2017*

PUBLICATIONS

K. Pohl, B. Young; "Jack Combinatorics of the Equivariant Edge Measure;" in preparation.
https://arxiv.org/abs/2410.03912

R. Gaybullaev, A. Khudoyberdiyev, K. Pohl; "Classification of solvable Leibniz algebras with abelian nilradical and $k-1$ dimensional extension;" *Communications in Algebra*, 48:7 (2020), 3061-3078. https://arxiv.org/pdf/1808.06171.pdf

J. Dietz, M. Klein, S. Nycklemoe, K. Pohl; "Automorphism Orbits of some Metacyclic Groups;" *Pi Mu Epsilon Journal* 14, no. 9 (2018): 557-564.

PRESENTATIONS

University of Oregon Student Counting Seminar   *Oct 2024*
Jack Combinatorics of the Equivariant Edge Measure

University of Oregon Combinatorics Seminar   *Nov 2023*
An Introduction to Jack Symmetric Functions

University of Oregon Student Counting Seminar   *Oct 2022*
An Introduction to Ramsey Theory

AMS/MAA Joint Mathematics Meetings   *Jan 2019*
Classification of solvable Leibniz algebras with abelian
nilradical and $k-1$ dimensional extension

Teaching Experience

Note: All classes conducted at the University of Oregon unless otherwise specified; * indicates remote, † indicates two sections.

Instructor of Record

Foundational Algebra and Mathematical Modeling	*Fall 2024, †Fall 2023*
Calculus I	*Spring 2023*
Precalculus II	*Winter 2023, Fall 2022, Spring 2022*
Precalculus I	*Winter 2022, *Winter 2021*
Elementary Statistics	**Summer 2020*

Teaching Assistant

Elementary Statistics	*Fall 2021, *Spring 2021*
Precalculus I	**Fall 2020*
Ballroom Dance I (St. Olaf College)	*Fall 2018, Spring 2019*

Tutoring

One-on-one Japanese language tutor (St. Olaf College)	*Fall 2018*

Grading

Introduction to Combinatorics – Linear Algebra I – Abstract Algebra I (St. Olaf College)

Professional Development

University of Oregon Graduate Teaching Initiative Certificate of Completion	*Expected: June 2025*
Erdős Institute Data Science Boot Camp Certificate of Completion	*Expected: Dec 2024*
Journeys In Mathematics *Massachusetts Institute of Technology*	*June 2024*
Cascade Lectures in Combinatorics *University of Oregon*	*May 2024*
Summer School in Algebraic Combinatorics *Krakow, Poland*	*July 2022*
BRIDGES Conference *University of Utah*	*July 2021*
International Research Experience for Students *Tashkent, Uzbekistan*	*May-July 2018*

Mentorship

UO Math Directed Reading Program
Partially Ordered Sets   *Winter 2024*
Ramsey Theory   *Winter 2023*

- Led an undergraduate student through readings on
  the theory of posets or introductory Ramsey theory

- Advised student in writing and giving a 20 minute
  talk on this topic

UO Math First-Year Graduate Mentorship Program   *Sept 2022 - June 2024*
Mentor

- Supported a student in the first year of their
  graduate program

- Met informally with student one-on-one over lunch
  once each term to check in

Service

UO AWM Student Chapter   *Sept 2019 - Present*

Vice President   *Sept 2024 - Present*

- Scheduled and organized executive council meetings

- Assisted president with standard duties

- Coordinated aspects of general membership meetings

Reading Room Committee Co-Chair   *Sept 2020 - Present*

- Managed a library of books highlighting
  underrepresented voices in mathematics

- Planned and hosted small group discussions about
  these topics

UO Mathematics Graduate Affairs Committee   *Sept 2020 - Sept 2023*
Student Representative

- Advised the department head on subjects pertaining
  to the graduate program

- Oversaw graduate student office occupancy changes

- Coordinated the first-year mentorship program and
  paired mentors and mentees

Scholarship and Membership

University of Oregon Mathematics Department 2019 Vitulli Scholar

Phi Beta Kappa Honor Society

Pi Mu Epsilon Honor Society

SKILLS

Japanese (Conversational)

SageMath/Python

LaTeX