

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 formulae.

EDUCATION

University of Oregon, PhD Mathematics Advisor: Ben Young	<i>Expected: June 2025</i>
University of Oregon, MS Mathematics	<i>June 2021</i>
St. Olaf College, Bachelor of Arts, <i>magna cum laude</i> Major: Mathematics, Concentration: Japan Studies	<i>May 2019</i>
Budapest Semesters in Mathematics Summer Program	<i>June-Aug 2017</i>

PUBLICATIONS

K. Pohl, B. Young; “Jack Combinatorics of the Equivariant Edge Measure;” submitted for publication.
<https://arxiv.org/abs/2410.03912>

R. Gaybullayev, 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 <i>A Markov Chain Monte Carlo Algorithm</i>	<i>Feb 2025</i>
Joint Mathematics Meetings 2025 <i>Jack Combinatorics of the Equivariant Edge Measure</i>	<i>Jan 2025</i>
University of Oregon Combinatorics Seminar <i>Jack Combinatorics of the Equivariant Edge Measure</i>	<i>Nov 2024</i>
Lane Community College Introduction to STEM Seminar <i>Partitions and Hook Walk Algorithms</i>	<i>Nov 2024</i>

University of Oregon Student Counting Seminar <i>Jack Combinatorics of the Equivariant Edge Measure</i>	<i>Oct 2024</i>
University of Oregon Combinatorics Seminar <i>An Introduction to Jack Symmetric Functions</i>	<i>Nov 2023</i>
University of Oregon Student Counting Seminar <i>An Introduction to Ramsey Theory</i>	<i>Oct 2022</i>
Joint Mathematics Meetings 2019 <i>Classification of solvable Leibniz algebras with abelian nilradical and $k - 1$ dimensional extension</i>	<i>Jan 2019</i>

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	<i>Fall 2024, † Fall 2023</i>
Calculus I	<i>Spring 2023</i>
Precalculus II	<i>Winter 2023, Fall 2022, Spring 2022</i>
Precalculus I	<i>Winter 2022, * Winter 2021</i>
Elementary Statistics	<i>* Summer 2020</i>

Teaching Assistant

Elementary Statistics	<i>Fall 2021, * Spring 2021, Winter 2025</i>
Precalculus I	<i>* Fall 2020</i>
Ballroom Dance I (St. Olaf College)	<i>Fall 2018, Spring 2019</i>

Tutoring

One-on-one Japanese language tutor (St. Olaf College)	<i>Fall 2018</i>
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Grading

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

PROFESSIONAL DEVELOPMENT

Journeys In Mathematics <i>Massachusetts Institute of Technology</i>	<i>June 2024</i>
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Cascade Lectures in Combinatorics <i>University of Oregon</i>	<i>May 2024</i>
Summer School in Algebraic Combinatorics <i>Krakow, Poland</i>	<i>July 2022</i>
BRIDGES Conference <i>University of Utah</i>	<i>July 2021</i>
International Research Experience for Students <i>Tashkent, Uzbekistan</i>	<i>May-July 2018</i>

MENTORSHIP

UO Math Directed Reading Program <i>Intransitive Dice</i> <i>Partially Ordered Sets</i> <i>Ramsey Theory</i>	<i>Winter 2025</i> <i>Winter 2024</i> <i>Winter 2023</i>
<ul style="list-style-type: none"> • 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 <i>Mentor</i>	<i>Sept 2022 - June 2024</i>
<ul style="list-style-type: none"> • 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	<i>Sept 2019 - Present</i>
<i>Vice President</i>	<i>Sept 2024 - Present</i>
<ul style="list-style-type: none"> • Scheduled and organized executive council meetings • Assisted president with standard duties • Coordinated aspects of general membership meetings 	
<i>Reading Room Committee Co-Chair</i>	<i>Sept 2020 - Present</i>
<ul style="list-style-type: none"> • Managed a library of books highlighting underrepresented voices in mathematics • Planned and hosted small group discussions about these topics 	

UO Mathematics Graduate Affairs Committee
Student Representative

Sept 2020 - Sept 2023

- 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

L^AT_EX