

# Kyla Pohl

Mathematics PhD Candidate – Graduate Employee

PRONOUNS: she/her  
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## RESEARCH INTERESTS

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

## EDUCATION

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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

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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

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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 <math>k - 1</math> dimensional extension</i>	<i>Jan 2019</i>

## TEACHING EXPERIENCE

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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

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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

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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"> <li>• Led an undergraduate student through readings on the theory of posets or introductory Ramsey theory</li> <li>• Advised student in writing and giving a 20 minute talk on this topic</li> </ul>	
UO Math First-Year Graduate Mentorship Program <i>Mentor</i>	<i>Sept 2022 - June 2024</i>
<ul style="list-style-type: none"> <li>• Supported a student in the first year of their graduate program</li> <li>• Met informally with student one-on-one over lunch once each term to check in</li> </ul>	

## SERVICE

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UO AWM Student Chapter	<i>Sept 2019 - Present</i>
<i>Vice President</i>	<i>Sept 2024 - Present</i>
<ul style="list-style-type: none"> <li>• Scheduled and organized executive council meetings</li> <li>• Assisted president with standard duties</li> <li>• Coordinated aspects of general membership meetings</li> </ul>	
<i>Reading Room Committee Co-Chair</i>	<i>Sept 2020 - Present</i>
<ul style="list-style-type: none"> <li>• Managed a library of books highlighting underrepresented voices in mathematics</li> <li>• Planned and hosted small group discussions about these topics</li> </ul>	

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

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University of Oregon Mathematics Department 2019 Vitulli Scholar

Phi Beta Kappa Honor Society

Pi Mu Epsilon Honor Society

## SKILLS

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Japanese (Conversational)

SageMath/Python

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