

ALEXANDER VIDINAS

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<https://www.vidinas.com/>

EDUCATION

Cornell University, Ithaca, NY *2021 - Present*
PhD Candidate in Mathematics (Expected May 2027)
MS in Mathematics (May 2024)
Advisor: Karola Mészáros, Research area: Algebraic combinatorics.

University of Michigan, Ann Arbor, MI *2017-2021*
Bachelors of Arts and Sciences in Physics and Honors Mathematics.

GRANTS AND AWARDS

Cornell Math Department Research Fellowship. *Spring 2025*
Cornell Math Department Torng Teaching Prize. *2024-2025*
Cornell Math Department Eleanor Norton York Award. *2023-2024*
Cornell Math Department Teaching Fellow. *Fall 2023*
University of Michigan Math Department Outstanding Senior Award. *2020-2021*
University of Michigan Math Department Evelyn O. Bychinsky Award. *2018-2019*
University of Michigan Merit Scholarship. *2017-2021*

PREPRINTS AND PUBLICATIONS

Mészáros, K., Musiker, G., Sherman-Bennett, M., and Vidinas, A. *Dimer face polynomials in knot theory and cluster algebras*, Preprint, 2024, arXiv:2408.11156.

Hafner, E. S., Mészáros, K., and Vidinas, A. *On the Alexander polynomial of special alternating links*, Preprint, 2024, arXiv:2401.14927.

Hafner, E. S., Mészáros, K., and Vidinas, A. *Log-concavity of the Alexander polynomial*, *International Mathematics Research Notices*, Volume 2024, Issue 13, 10273-10284.

TEACHING

Teaching Assistant, Linear Algebra for Data Science. *Fall 2024*
Teaching Assistant, Calculus 1, Cornell University. *Summer 2024*
Instructor of Record, Calculus 1, Cornell University. *Spring 2024*
Teaching Assistant, Mathematical Explorations, Cornell University. *Fall 2022, Fall 2023*
REU Mentor, Summer Program for Undergraduate Research, Cornell University. *Summer 2023*
Teaching Assistant, Introduction to Proofs. *Spring 2023*
Czar's Assistant, Calculus 2, Cornell University. *Spring 2021*
Recitation Instructor, Applied Linear Algebra, Cornell University. *Fall 2021*
Course Assistant, Honors Calculus 2, University of Michigan. *Spring 2020*
Course Assistant, Honors Calculus 1, University of Michigan. *Fall 2019*
Peer Tutor in Mathematics, University of Michigan. *Fall 2018*
Course Assistant, Honors Calculus 1, University of Michigan. *Fall 2018*

SEMINAR AND CONFERENCE ORGANIZATION

Co-Organizer, Graduate Seminar in Combinatorics, Cornell University. *2023-Present*
Organizer, Teaching Seminar, Cornell University. *Fall 2023*
Co-Organizer, "What Is" Seminar, Cornell University. *Fall 2023*

OUTREACH AND MENTORING

Co-Organizer, Discrete Mathematical Explorations, Cornell University.	<i>Fall 2022, Spring 2024</i>
Mentor, Association of Women in Math Zigzag Mentoring Program, Cornell University.	<i>2023-2024</i>
Co-Organizer, Graduate Peer Mentoring Program, Cornell University.	<i>2023-2024</i>
Instructor, Cornell University Little Circle, Cornell University.	<i>Spring 2023</i>
Mentor, Graduate Peer Mentoring Program, Cornell University.	<i>2022-2023</i>
Recruiter, Out in STEM, University of Michigan.	<i>2016-2021</i>
Mentor, University of Michigan Young Science Innovators.	<i>August 2019</i>

TALKS AND PRESENTATIONS

<i>Let's weave! A model for mathematical proficiency</i> Teaching Seminar, Cornell University.	<i>Nov 2024</i>
<i>Log-Concavity of the Alexander polynomial</i> Encuentro Colombiano de Combinatoria (ECCO).	<i>June 2024</i>
<i>Log-Concavity of the Alexander polynomial</i> Graduate Student Combinatorics Conference.	<i>Mar 2024</i>
<i>Creating community in the classroom</i> Teaching Seminar, Cornell University.	<i>April 2024</i>
<i>On the Alexander polynomial of special alternating links</i> SUNY Binghamton Combinatorics Seminar.	<i>Feb 2024</i>
<i>Log-Concavity of the Alexander polynomial</i> Combinatorial Algebra meets Algebraic Combinatorics (CAAC).	<i>Jan 2024</i>
<i>Mario Kart geometry and combinatorics in type B</i> Olivetti Seminar, Cornell University.	<i>Fall 2023</i>
<i>Join the Gröbner fandom</i> Olivetti Seminar, Cornell University.	<i>Fall 2022</i>

OTHER WORKSHOPS AND PROGRAMS ATTENDED

The Many Combinatorial Legacies of Richard P. Stanley, Cambridge, MA.	<i>June 2024</i>
Math for All in Boulder, Boulder, CO.	<i>Apr 2024</i>
Algebra, Geometry and Combinatorics Day (AlGeCom), Champaign, IL.	<i>Oct 2022</i>

SKILLS

Programming Languages	SageMath, Python, Mathematica, C++ English (native), Romanian (native), Spanish, French
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