ALEXANDER VIDINAS

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https://www.vidinas.com/

EDUCATION

Cornell University , Ithaca, NY PhD Candidate in Mathematics (Expected May 2027)	2021 - Present
MS in Mathematics (May 2024) Advisor: Karola Mészáros, Research area: Algebraic combinatorics.	
University of Michigan , Ann Arbor, MI Bachelors of Arts and Sciences in Physics and Honors Mathematics.	2017-2021

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

PREPINTS 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. Fall 2022	2, Spring 202
Mentor, Association of Women in Math Zigzag Mentoring Program, Cornell University.	2023-202
Co-Organizer, Graduate Peer Mentoring Program, Cornell University.	2023-202
Instructor, Cornell University Little Circle, Cornell University.	Spring 202
Mentor, Graduate Peer Mentoring Program, Cornell University.	2022-202
Recruiter, Out in STEM, University of Michigan.	2016-202
Mentor, University of Michigan Young Science Innovators.	August 201
ALKS AND PRESENTATIONS	
On the Alexander polynomial of special alternating links Combinatorial Algebra meets Algebraic Combinatorics (CAAC).	Jan 202
Let's weave! A model for mathematical proficiency Teaching Seminar, Cornell University.	Nov 202.
Log-Concavity of the Alexander polynomial Encuentro Colombiano de Combinatoria (ECCO).	June 202.
Log-Concavity of the Alexander polynomial Graduate Student Combinatorics Conference.	Mar 202.
Creating community in the classroom Teaching Seminar, Cornell University.	April 202.
On the Alexander polynomial of special alternating links SUNY Binghamton Combinatorics Seminar.	Feb 202.
Log-Concavity of the Alexander polynomial Combinatorial Algebra meets Algebraic Combinatorics (CAAC).	Jan 202.
Mario Kart geometry and combinatorics in type B Olivetti Seminar, Cornell University.	Fall 202
Join the Gröbner fandom Olivetti Seminar, Cornell University.	Fall 202

OTHER WORKSHOPS AND PROGRAMS ATTENDED

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

SKILLS

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