

Chase Vogeli

Curriculum Vitae

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Research Interests

Algebraic topology, particularly equivariant homotopy theory and algebraic K -theory.

Education

- 2020 – **Ph.D. in Mathematics**, *Cornell University*, Ithaca, NY
Advisor: Inna Zakharevich
- 2021 – 2023 **M.Sc. in Computer Science**, *Cornell University*, Ithaca, NY
- 2016 – 2020 **B.Sc. in Mathematics**, *Massachusetts Institute of Technology*, Cambridge, MA
Minor in German Studies

Publications

- 2023 **Bredon homological stability for configuration spaces of G -manifolds**,
with Eva Belmont and J.D. Quigley, arXiv:2311.02459
- 2019 **Uniformly vertex-transitive graphs**,
with Simon Schmidt and Moritz Weber, arXiv:1912.00060

Talks & Presentations

- Jan 2024 *Homological stability for equivariant configuration spaces*
Joint Mathematics Meetings. San Francisco, CA.
- Nov 2023 *The K -theory of the stable module category*
Binghamton University Graduate Combinatorics, Algebra, & Topology (BUGCAT)
Conference. Binghamton, NY.
- Nov 2022 *Homology of equivariant configuration spaces*
BUGCAT Conference. Binghamton, NY.
- Jul 2019 *Some applications of graph theory to the study of quantum symmetry*
Research Seminar in Free Probability Theory. Saarbrücken, Germany.
- Jan 2019 *On the Saxl graphs of a family of permutation groups*
Joint Mathematics Meetings. Baltimore, MD.

Awards & Scholarships

- 2021 **Olivetti Egg**
Voted as the best speaker in the Olivetti Club, the Cornell graduate student mathematics colloquium, in both the Spring 2021 and Fall 2021 semesters.
- 2020 **Phi Beta Kappa**
- 2020 **MIT ESG Teaching Award**
Recognizes outstanding undergraduate teaching in the MIT Experimental Study Group (ESG).
- 2019 **DAAD Research Internships in Science & Engineering (RISE) Scholarship**
Awarded by the German Academic Exchange Service (DAAD) to fund summer research internships in Germany.

Teaching Experience

Cornell University Department of Mathematics

- Fall 2023 **Teaching Assistant**, MATH 6310 (Algebra)
- Spring 2023 **Teaching Assistant**, MATH 2210 (Linear Algebra)
- Fall 2022 **Instructor**, MATH 1110 (Calculus I)
- Spring 2022 **Teaching Assistant**, MATH 2220 (Multivariable Calculus)
- Fall 2021 **Instructor**, MATH 1110 (Calculus I)
- Spring 2021 **Teaching Assistant**, MATH 2220 (Multivariable Calculus)
- Fall 2020 **Teaching Assistant**, MATH 1910 (Calculus for Engineers)

MIT Experimental Study Group

- Spring 2020 **Undergraduate Teaching Assistant**, 18.02 (Calculus II)
- Fall 2019 **Undergraduate Teaching Assistant**, 18.01 (Calculus I)
- Fall 2018 **Undergraduate Teaching Assistant**, 18.01 (Calculus I)
- Fall 2017 **Undergraduate Teaching Assistant**, 8.012 (Honors Physics I)

Activities

Workshop Participation

- Sep 2023 **Participant**, *Fall School on K-theory and Redshift*, Mainz, DE
- Jun 2023 **Participant**, *Summer School on Scissors Congruence, Algebraic K-theory, and Trace Methods*, Bloomington, IN
- Sep 2022 **Participant**, *European Autumn School in Topology*, Utrecht, NL
- Fall 2021 **Participant**, *eCHT Equivariant Homotopy Theory Reading Seminar*, Online

Service

Cornell University

- 2023 – **Organizer**, *Directed Reading Program*
- Spring 2022 **Organizer**, *Olivetti Club*
- Spring 2024 Organized the Olivetti Club, the Cornell graduate student mathematics colloquium.
- Spring 2021 **Organizer**, *"What is...?" Seminar*
Organized talks by faculty members aimed at graduate students seeking advisors.

Massachusetts Institute of Technology

- 2017 – 2020 **Staff Member**, *Undergraduate Mathematics Association*
Organized social events for the undergraduate mathematics community.
- Aug 2019 **Counselor**, *"Discover Mathematics" Freshman Pre-Orientation Program*
Co-organized a week-long program to introduce incoming students to the math major.

Skills

- Programming Python, C/C++, \LaTeX , GAP, MAGMA, SageMath
- Languages English (native), German (level B2)