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*
Binghampton University Graduate Combinatorics, Algebra, & Topology (BUGCAT)
Conference. Binghampton, NY

Nov 2022 *Homology of equivariant configuration spaces*
BUGCAT Conference. Binghampton, 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

2023 **Torng Prize**, *Cornell University Department of Mathematics*
Awarded for outstanding contributions to the teaching mission of the department.

2021 **Olivetti Egg**, *Cornell University Department of Mathematics*
Voted as the best speaker in the Cornell graduate student mathematics colloquium.

2020 **Phi Beta Kappa**, *MIT*

2020 **Teaching Award**, *MIT Experimental Study Group*
Awarded for outstanding work as an undergraduate teaching assistant.

Last updated: March 5, 2024

2019	**RISE Scholarship**, *German Academic Exchange Service (DAAD)* Funded a summer research internship at Saarland University.

Teaching Experience

Cornell University Department of Mathematics

Spring 2024	**Teaching Assistant**, MATH 2210 (Linear Algebra)
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.

Skills

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