

Chase Vogeli

Curriculum Vitae

✉ cpv29@cornell.edu
🌐 chasevoege.li

Research Interests

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

Education

2020 – 2026 **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

Research

Publications

2024 **The Galois-equivariant K -theory of finite fields**, with David Chan
Proceedings of the London Mathematical Society, to appear. [arXiv:2406.19481](https://arxiv.org/abs/2406.19481)

Preprints

2023 **Bredon homological stability for configuration spaces of G -manifolds**, with
Eva Belmont and J.D. Quigley
[arXiv:2311.02459](https://arxiv.org/abs/2311.02459)

2019 **Uniformly vertex-transitive graphs**, with Simon Schmidt and Moritz Weber
[arXiv:1912.00060](https://arxiv.org/abs/1912.00060)

Talks & Presentations

Invited talks

Oct 2024 *The Galois-equivariant K -theory of finite fields*
AMS Fall Eastern Sectional Meeting. Albany, NY.

Sep 2024 *The Galois-equivariant K -theory of finite fields*
Binghamton University Geometry and Topology Seminar. Binghamton, NY.

Mar 2024 *Equivariant homological stability*
“Trace Methods and Applications for Cut-and-Paste K -Theory” FRG Seminar. Online.

Contributed talks

Apr 2024 *Equivariant homological stability*
Graduate Student Topology and Geometry Conference. East Lansing, MI.

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 *Homological stability for equivariant configuration spaces*
BUGCAT Conference. Binghamton, NY.

Awards & Scholarships

- 2024 **Stephen and Margery Russel Distinguished Teaching Award**, *Cornell University, College of Arts & Sciences*
- 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.
- 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)

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)