

# Nick Georgakopoulos

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## Education

2017–2022 **Ph.D. in Mathematics**, University of Chicago, Advisor: J. Peter May  
Expected July 2022

## Research Interests

Algebraic topology, equivariant homotopy theory.

## Publications and Preprints

**The  $RO(C_4)$  cohomology of the infinite real projective space**,  
arXiv:2104.11407

**The  $C_{2^n}$  Borel dual Steenrod algebra**, arXiv:2104.11409

**$C_2$ -equivariant characteristic classes over the rational Burnside ring**,  
arXiv:2104.11945

**$C_{2^n}$ -equivariant rational stable stems and characteristic classes**,  
arXiv:2104.11948

**The  $RO(C_4)$  integral homology of a point**, arXiv:1912.06758

## Seminar Talks

Sept 2021 **University of California San Diego, Topology Seminar**  
The  $RO(G)$  graded cohomology of  $G$ -equivariant classifying spaces.

Sept 2021 **University of Notre Dame, Topology Seminar**  
The  $RO(G)$  graded cohomology of  $G$ -equivariant classifying spaces.

May 2021 **University of Warwick, Topology Seminar**  
The  $RO(G)$  graded cohomology of  $G$ -equivariant classifying spaces.

## Teaching Experience

2019–2021 **Instructor**, University of Chicago  
Primary instructor for the following 8 undergraduate courses:

- Fall 2021–Winter 2022, Calculus II, III (Math 152, 153)
- Fall 2020–Spring 2021, Calculus I, II, III (Math 151, 152, 153).
- Fall 2019–Spring 2020, Calculus I, II, III (Math 131, 132, 133).

2018-2021 **REU Mentor**, University of Chicago

Mentor for the following 10 undergraduate research projects:

- Ciprian Bonciocat, The motivic Adams spectral sequence.
- Rajiv Kaipa, Presheaves with four operations.
- Ajay Mitra, Spin manifolds and positive scalar curvature metrics.
- Elias Manuelidis, What are spectra?
- Colin Ni, Lubin-Tate and algebraic geometry in chromatic homotopy theory.
- Jordan Brown, Scott spaces and the dcpo category.
- Palash Goiporia, Subgroups of free products.
- Judson Kurhman, A theorem on the classifying space of a group with torsion.
- Nick Chaiyachakorn, De Rham's theorem twice.
- Max Johnson. ETCS, ordinals, and choice.

2020-2021 **DRP Mentor**, University of Chicago

Mentor for the following 2 directed reading projects:

- Jacob Zweifler, Higher reciprocity laws through class field theory.
- Alex Kilbourne, On Mayer-Vietoris sequences and cohomology

2018-2019 **Teaching Assistant**, University of Chicago

TA for the following 3 undergraduate courses:

- Spring 2019, Basic Complex Variables.
- Fall 2018-Winter 2019, Basic Algebra I, II.