Oliver H. Wang

Email: dfh3fs@virginia.edu

Personal

United States Citizen.

Education

PhD Mathematics, University of Chicago, October 2018 - June 2024

M.S. Mathematics, University of Chicago, October 2020

B.A. Mathematics, Cornell University, August 2014 - December 2017

Relevant Coursework

University of Chicago: Analysis Sequence (Real Analysis, Functional Analysis), Algebra Sequence (Representation Theory, Number Theory), Topology Sequence (Riemannian Geometry), Hodge Theory, Geometric Group Theory, L^2-Cohomology

Cornell University: Algebraic Topology, Real Analysis, Complex Analysis, Number Theory, K-Theory and Characteristic Classes, Hyperbolic Geometry, Lie Groups, Algebraic Geometry

Employment

RTG Postdoctoral Research Associate, UVA, September 2024 - Present

REU Mentor, University of Chicago, June 2019 - August 2019, June 2020-August 2020

Teaching Associate, Cornell University, January 2018 - May 2018

Math Tutor, Cornell University, January 2015 - December 2017

Awards and Fellowships

McCormick Fellowship, University of Chicago

Kieval Prize, Cornell University, 2018

Outstanding Poster Award, Joint Mathematics Meetings, 2018

Publications and Preprints

Oliver H. Wang. Characteristic classes for $BDiff_\partial^G(DV)$. In progress

Oliver H. Wang Jon Dewitt, Meg Doucette. Smooth models of fibered partially hyperbolic systems. In progress

Oliver H. Wang. The Whitehead group and unstable G-smoothings. In progress

Oliver H. Wang. The rational homotopy theory of stable C_p-smoothings. In progress

Oliver H. Wang. Chern class obstructions to smooth equivariant rigidity. `https://arxiv.org/abs/2310.09363`, 2023

Oliver H. Wang. Torus bundles over lens spaces. *Forum Math.*, 36(4):915–941, 2024

Oliver H. Wang. A spectral sequence for Dehn fillings. *Algebr. Geom. Topol.*, 21(5):2257–2272, 2021

Jason F. Manning and Oliver H. Wang. Cohomology and the Bowditch boundary. *Michigan Math. J.*, 69(3):633–669, 2020

Talks

Spring Topology and Dynamics Conference, March 2025

The Interplay of *K*-theory and Geometric Group Theory, June 2024

Manifolds, homotopy theory, and related topics, March 2024

Cornell University, March 2019

Spring Topology and Dynamics Conference, March 2019

Tufts University, September 2018

Graduate Student Topology and Geometry Conference, April 2018

Cornell University, September 2017

Teaching

University of Virginia: 3351, 4651

University of Chicago: 26200 (TA), 26300 (TA), 26500 (TA), 13100 (Instructor), 13200 (Instructor), 13300 (Instructor), 15200 (Instructor), 15300 (Instructor), 19520 (Instructor)

Cornell University: 1920 (TA)

Conferences and Programs Attended

Spring Topology and Dynamics Conference, Christopher Newport University, March 2025

The Interplay of *K*-theory and Geometric Group Theory, University of Southampton, June 2024

MPS Conference on Quantitative Topology, Simons Foundation, February 2024

Algebraic K-theory of Spaces, University of Regensburg, July 2023

Mid-Atlantic Topology Conference, UPenn, April 2023

Homotopy Theory with Applications to Arithmetic and Geometry, Fields Institute, June 2022

Talbot, June 2022

Graduate Student Topology and Geometry Conference, UIUC, April 2019

Spring Topology and Dynamics Conference, University of Alabama at Birmingham, March 2019

Arizona Winter School, University of Arizona, March 2019

Topology Festival, Cornell University, May 2018

Graduate Student Topology and Geometry Conference, UIC, April 2018

Midwest Topology Seminar, Northwestern University, March 2018

Joint Mathematics Meetings, San Diego, January 2018

Homotopy Theory: Tools and Applications, UIUC, July 2017

Topology Festival, Cornell University, May 2017

Last updated: April 25, 2025