Andrew Paul

University of North Carolina at Chapel Hill
Department of Mathematics
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Areas of specialization

Geometry; Topology; Mathematical Physics

Education

2023–Present   PH.D. Mathematics; University of North Carolina at Chapel Hill
2019–2023   B.S. Mathematics; University of California, San Diego

- Honors with Distinction

- Thesis title: *Chern Classes and Lines on a Cubic Surface*; thesis advisor: Dragos Oprea

Research

2022   UT Chattanooga Mathematics REU
2021   UC Santa Barbara Mathematics REU
2020–2021   Computational Astrophysics; PI: Thomas Siegert

Papers

2023   *Topological Properties of Almost Abelian Groups* with Zhirayr Avetisyan, Oderico-Benjamin Buran, and Lisa Reed [arXiv: 2308.08059]
2022   *Weak convergence of spectral shift functions revisited* with Carson Connard, Benjamin Ingimarson, and Roger Nichols; to appear in *Pure and Applied Functional Analysis* [arXiv: 2211.14970]

Conferences

2024   Graduate Student Topology and Geometry Conference
2024   Triangle Area Graduate Mathematics Conference
2023   Joint Mathematics Meetings
2022   UTC Fall Research Conference

2022	Joint Mathematics Meetings
2021	Gulf Coast Undergraduate Research Symposium
2021	Young Mathematicians Conference
2021	Southern California Math REU Conference

Teaching

UNC Chapel Hill
Spring 2024	Teaching assistant; MATH 231 (Calculus of Functions of One Variable I), MATH 233 (Calculus of Functions of Several Variables)
Fall 2023	Teaching assistant; MATH 231 (Calculus of Functions of One Variable I)

UC San Diego
Winter 2023	Teaching assistant; MATH 20B (Calculus for Science and Engineering II)
Fall 2022	Teaching assistant; MATH 20A (Calculus for Science and Engineering I)
2021–2022	Teaching assistant; MATH 20C (Calculus and Analytic Geometry for Science and Engineering); Fall 2021, Winter 2022

Directed Reading Program
Spring 2024	Mentoring Yiyang Fan in a reading course on topology and differential geometry, with a final presentation on the Whitney embedding theorem.

Saret & Co. Education
2023–Present	Specialized tutor

San Diego Math Circle
2020–2024	Cauchy-group instructor

Independent Tutoring
2022–Present	Tutor

Mathnasium
2018	Tutor

Other employment

UNC Chapel Hill
Fall 2023	Grader; MATH 381 (Discrete Mathematics)

UC San Diego
Fall 2022	Grader; MATH 150A (Differential Geometry)
Spring 2022	Grader; MATH 20D (Introduction to Differential Equations)

Last updated: March 3, 2024