Christopher Stith

Ann Arbor, MI
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EDUCATION

University of Michigan, Ann Arbor — Ann Arbor, MI (September 2019 – Present)

- Ph.D. in Mathematics (Expected June 2024)
- Advisor: Lydia Bieri

University of Chicago — Chicago, IL (September 2015 – June 2019)

- Bachelor of Science, Mathematics (with Honors)
- Relevant coursework (* denotes graduate courses): Analysis I-II-III*, Literacy in Partial Differential Equations*, Topology and Geometry III*, General Relativity*, Basic Theory of Partial Differential Equation, Introduction to Algebraic Topology, Honors Basic Algebra I-II-III, Point Set Topology, Basic Complex Variables, Introduction to Differentiable Manifolds, Honors Analysis I-II-III, Honors Calculus I-II-III

RESEARCH INTERESTS

- Mathematical general relativity, partial differential equations, differential geometry, geometric analysis.

HONORS

- Gabrielle & Sophie Rainich Fellowship (University of Michigan) — 2020
- Dean's List (University of Chicago) — 2015 – 2019

SELECTED TALKS

- MCAIM Student Seminar (University of Michigan, 2020) *The Cauchy problem for general relativity*
- Student Analysis Seminar (University of Michigan, 2020) *Optimal transport theory*
- Student Analysis Seminar (University of Michigan, 2020) *The Cauchy problem for general relativity*

ATTENDED CONFERENCES & WORKSHOPS

- Boston City Limits 2018
  Summer School on Mathematical General Relativity and the Geometric Analysis of Waves of Fluids
  Massachusetts Institute of Technology

TEACHING/SERVICE

- Graduate Student Instructor (GSI) at University of Michigan, Ann Arbor

  Math 216: Introduction to Differential Equations (Lab Instructor) — Winter 2021
  Math 116: Calculus II (Primary instructor) — Fall 2020
  Math 116: Calculus II (Primary instructor) — Winter 2020
  Math 115: Calculus I (Primary instructor) — Fall 2019

- Co-organizer, Student Analysis Seminar — 2021 – Present

OTHER RELEVANT EXPERIENCE

- University of Chicago Analysis Bootcamp TA and Upper-Level Student, June – August 2018
  - Attended lectures by André Neves on minimal surface theory, reading and presenting on research papers in the field
  - Supervised the lower-year Bootcamp; graded weekly problem sets, held weekly discussion sections, held supplemental lectures

- University of Chicago Analysis Bootcamp Student, June-August 2017
  - Summer school focused on complex analysis, dynamical systems, probability, and differential geometry, organized by Wilhelm Schlag.

- University of Chicago Mathematics REU, June-August 2016
  - Attended lectures on linear algebra, graph theory, and algebraic topology
  - Independent study of algebraic topology, culminating in expository paper on fundamental groups and covering spaces (available here)