

Curriculum Vitae - John Hopper

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Education	University of California, Los Angeles Ph.D Mathematics M.A. Mathematics Passed Qualifying exams: Basic, Analysis, and Geometry/Topology.	Los Angeles, California August 2022-Present August 2022-March 2024
	University of Chicago B.A. with honors in Mathematics Minor in Physics 2022 Cohen Prize recipient	August 2018-June 2022
Papers	<i>Sliced Wasserstein Geodesics and Equivalence of Wasserstein and Sliced Wasserstein Metrics</i> , July 2024, Preprint: arXiv:2407.07219.	
Presentations	UCLA graduate student organization seminar: “Probabilists don’t want you to know this one simple trick!!” - 10/10/2024 “Peano Curves: quietly pathological” - 04/11/2024 “Game, set, metric space” - 02/15/2024	
	UCLA participating seminars: “Hamilton-Jacobi-Bellman in Hilbert spaces” - 02/12/2025 “Calculation of norms of elements in group C*-algebras” - 12/02/2024 “An introduction to Mean Field Games” - 11/18/2024 “Using Optimal Transport to prove Log Sobolev inequality” - 11/30/2023	
Mentoring	UCLA Blackwell REU (TA): Xiaoxian Chen - Summer 2024 Zachary Duah - Summer 2024	
	UCLA Directed Reading program: Michael Papagni, “Discrete time Markov Processes” - Fall 2023 Richard Li, “Schwartz Class in L_p ” - Fall, Winter, Spring 2024-25,	
Teaching and Grading	University of California, Los Angeles Teaching Assistant	
	Math 31A (Calculus 1) Math 32A (Multivariable Calculus 1) Math 32B (Multivariable Calculus 2) Math 32BH (Honors Multivariable Calculus 2) Math 33B (Differential Equations) Math 106 (History of Math) Math 115A (Proof based Linear Algebra) Math 120A (Differential Geometry: Curves and Surfaces) Math 131A (Analysis 1) Math 170S (Intro to Probability and Statistics 2)	Fall 2024, Winter 2023 Fall 2024, Spring 2024, Fall 2023 Winter 2024 (two classes) Winter 2025 Fall 2022 Spring 2023 Winter 2025 Fall 2023 Spring 2025 Spring 2024
	Grader Math 245C (Graduate Real Analysis 3)	Spring 2024
	University of Chicago Teaching Assistant	
	Math 132 (Calculus 2) Math 113 (Basic Geometry) Chicago Academic Achievement Program	Spring 2022 Winter 2022 Summer 2020