

PETER POTAPTCHIK

peterpotaptchik.github.io

EDUCATION

University of Oxford

Sep 2023 - Present

DPhil in Statistical Machine Learning

Supervised by George Deligiannidis and Yee Whye Teh

Teaching Assistant: Probability, Statistical Learning Theory

Harvard University

Jun 2025 - Present

Fellow of the School of Engineering and Applied Sciences

Working with Michael Albergo

University of Toronto

Sep 2018 - May 2023

Honours Bachelor in Computer Science and Statistics - 4.0 (94.5%)

Supervised by Chris J. Maddison and Daniel M. Roy

Teaching Assistant: Linear Algebra, Operating Systems

SELECTED PUBLICATIONS

T. Farghly*, **Peter Potaptchik***, S. Howard*, et al. [Diffusion Models and the Manifold Hypothesis: Score Function Smoothing is Geometry Adaptive](#). *NeurIPS 2025*. [arXiv:2510.02305](#).

S. Howard, **Peter Potaptchik**, G. Deligiannidis. [Schrödinger Bridge Matching for Tree-Structured Costs and Entropic Wasserstein Barycentres](#). *NeurIPS 2025*. [arXiv:2506.17197](#).

Peter Potaptchik*, I. Azangulov*, and G. Deligiannidis. [Linear Convergence of Diffusion Models Under the Manifold Hypothesis](#). *COLT 2025*. [arXiv:2410.09046](#).

L. Zhang*, **Peter Potaptchik***, A. Doucet, et al. [Generalized Parallel Tempering](#). *ICLR 2025 Workshop*. [arXiv:2502.10328](#).

K. Kapusniak, **Peter Potaptchik**, T. Reu, et al. [Metric Flow Matching for Smooth Interpolations on the Data Manifold](#). *NeurIPS 2024*. [arXiv:2405.14780](#).

WORK EXPERIENCE

D. E. Shaw - *Software Developer Intern*

New York City, NY - 2022

Coinbase - *Software Engineer Intern*

San Francisco, CA - 2021

Microsoft - *Software Engineer Intern*

Redmond, WA - 2020

KPMG - *Data Science Intern*

Toronto, ON - 2019

AWARDS AND HONOURS

Google PhD Fellowship

\$120,000 2025

NSERC Postgraduate Scholarship

\$120,000 2025

First Place Citadel PhD Research Showcase

£24,000 2025

Best Short Talk Award BAYSM

\$300 2023

U of Toronto Department of Computer Science Research Award

\$7,500 2021

U of Toronto Scholar In-Course Award

\$1,500 2019, 2020, 2021

Canadian Mathematical Olympiad (CMO)

2017