

MATTHEW ESMAILI MALLORY

matthewmallory@fas.harvard.edu \diamond mattesmaili.github.io

EDUCATION

PhD in Statistics , Harvard University	2022–2027
Awarded National Science Foundation’s Graduate Research Fellowship (NSF GRFP)	
MA in Statistics , Harvard University	2022–2025
BS in Pure Mathematics, BS in Statistics , University of California, Los Angeles	2018–2022
Honors Collegium, Highest Honors in Mathematics, 4.0 GPA	

PUBLICATIONS

Esmaili Mallory, M., Han Huang, K., & Austern, M. (2025). “Universality of High-Dimensional Logistic Regression and a Novel CGMT under Dependence with Applications to Data Augmentation.” [Proceedings of Thirty Eighth Conference on Learning Theory](#) (pp. 1799–1918). PMLR.

Esmaili Mallory, M., Brown, J. & Glickman, M. (2025). “Come Together: Analyzing Popular Songs Through Statistical Embeddings.” In Progress. (*Presented at Joint Statistical Meetings 2025*).

Yu, A., Becquey, C., Halikias, D., **Esmaili Mallory, M.**, & Townsend, A. (2021). “Arbitrary-Depth Universal Approximation Theorems for Operator Neural Networks.” [arXiv:2109.11354](#).

TEACHING

Teaching Fellow for Stat 175: Statistics and Data Science of Networks , Harvard	Dec 2025 - present
Teaching Fellow for Stat 149: Generalized Linear Models , Harvard	Jan 2024 - Jun 2024
Teaching Fellow for Stat 104: Quantitative Methods for Economics , Harvard	Aug 2023 - Dec 2023
Teaching Assistant for Math 115A: Linear Algebra , UCLA	Jan 2022 - Mar 2022
Teaching Assistant for Math 115A: Linear Algebra , UCLA	Apr 2021 - Jun 2021

LEADERSHIP & EXPERIENCE

Quantitative Research Intern , Virtu Financial	Jun 2026 - Aug 2026
Statistical Consultant , Harvard	Jan 2024 - Jun 2025

- Received acknowledgment in publications for assisting Harvard researchers in their statistical analyses.

President, Harvard Iranian Student Association July 2024 - present

Research Participant, Princeton Machine Learning Theory Summer School Aug 2025

- Accepted to and presented research at Princeton’s summer school for theoretical advances in deep learning.

President, UCLA Undergraduate Mathematics Students Association Mar 2019 - Jun 2022

Undergraduate Researcher, UCLA Mathematics & Statistics Departments Jan 2021 - Jun 2021

- Researched topological data analysis, algebraic statistics, category theory, and ergodic theory.

Mathematics Docent, Olga Radko Endowed Math Circles Jul 2020 - Feb 2022

RELEVANT COURSEWORK

Mathematics Real & Complex Analysis, Measure Theory, Group Theory, Ring Theory, Galois Theory, Linear Algebra, Differential Geometry, Topology, Ordinary & Partial Differential Equations, Random Matrix Theory, Fourier Analysis, Multivariate Differential & Integral Calculus

Statistics Probability Theory, Mathematical Statistics, Generalized Linear Models, Experimental Design, Data Mining, Computational Statistics, Theoretical Machine Learning, Optimization, Monte Carlo Methods, Reinforcement Learning, Statistical Consulting, R, Python