

MATTHEW ESMAILI MALLORY

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EDUCATION

PhD in Statistics , Harvard University	2022–2027
Awarded National Science Foundation’s Graduate Research Fellowship (NSF GRFP)	
Advised by Dr. Morgane Austern	
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.” arXiv preprint. [arXiv:2502.15752](#). (Accepted to [Conference on Learning Theory \(COLT\) 2025](#)).

Esmaili Mallory, M., Brown, J. & Glickman, M. (2025). “Come Together: Analyzing Popular Songs Through Statistical Embeddings.” In Progress. (*To be 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 preprint. [arXiv:2109.11354](#).

TEACHING

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
• Received Harvard Undergraduate Association’s Certificate of Special Recognition in teaching.	
Teaching Assistant for Math 115A: Linear Algebra , UCLA	Jan 2022 - Mar 2022
Teaching Assistant for Math 115A: Linear Algebra , UCLA	Apr 2021 - Jun 2021

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

LEADERSHIP & WORK EXPERIENCE

Statistical Consultant , Harvard	Jan 2024 - present
• Received acknowledgment in publications for assisting Harvard researchers in their statistical analyses.	
President , Harvard Iranian Student Association	July 2024 - present
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

SKILLS

English, Persian, Spanish | R, Python, Julia, LaTeX | Adobe PhotoShop, Illustrator, Premiere Pro, & After Effects