

# MATTHEW ESMAILI MALLORY

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## EDUCATION

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<b>PhD in Statistics</b> , Harvard University	2022–2027
Awarded National Science Foundation’s Graduate Research Fellowship ( <a href="#">NSF GRFP</a> )	
Advised by <a href="#">Dr. Morgane Austern</a>	
<b>MA in Statistics</b> , Harvard University	2022–2025
<b>BS in Pure Mathematics, BS in Statistics</b> , University of California, Los Angeles	2018–2022
Honors Collegium, Highest Honors in Mathematics, 4.0 GPA	

## PUBLICATIONS

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**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

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<b>Teaching Fellow for Stat 149: Generalized Linear Models</b> , Harvard	Jan 2024 - Jun 2024
<b>Teaching Fellow for Stat 104: Quantitative Methods for Economics</b> , Harvard	Aug 2023 - Dec 2023
• Received Harvard Undergraduate Association’s Certificate of Special Recognition in teaching.	
<b>Teaching Assistant for Math 115A: Linear Algebra</b> , UCLA	Jan 2022 - Mar 2022
<b>Teaching Assistant for Math 115A: Linear Algebra</b> , UCLA	Apr 2021 - Jun 2021

## LEADERSHIP & EXPERIENCE

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<b>Statistical Consultant</b> , Harvard	Jan 2024 - present
• Received acknowledgment in publications for assisting Harvard researchers in their statistical analyses.	
<b>President</b> , Harvard Iranian Student Association	July 2024 - present
<b>Research Participant</b> , Princeton Machine Learning Theory Summer School	Aug 2025
• Accepted to and presented research at Princeton’s summer school for theoretical advances in deep learning.	
<b>President</b> , UCLA Undergraduate Mathematics Students Association	Mar 2019 - Jun 2022
<b>Undergraduate Researcher</b> , UCLA Mathematics & Statistics Departments	Jan 2021 - Jun 2021
• Researched topological data analysis, algebraic statistics, category theory, and ergodic theory.	
<b>Mathematics Docent</b> , Olga Radko Endowed Math Circles	Jul 2020 - Feb 2022

## RELEVANT COURSEWORK

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<b>Mathematics</b>	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
<b>Statistics</b>	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