Keivan Bolouri

Curriculum Vitae

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Homepage

Summary: I am a senior (B.S.) student majoring in Statistics and Data Science at UCLA with a minor in Mathematics. My research interests include optimization, machine learning, and computational biology. I plan to pursue a PhD in Statistics, Biostatistics, or a related field to bridge advanced statistical methods with biomedical applications.

Education

2026 (Expected)	B.S. in Statistics and Data Science (Minor: Mathematics), *University of California-Los Angeles (UCLA).* GPA: 3.8
2024	A.S. in Mathematics, *Los Angeles Trade Technical College (LATTC)*. GPA: 4.0 (Summa Cum Laude)

Academic Honors/Awards

2024-2026	UCLA Reentry Scholar Scholarship Recipient
2022-2024	President's Honors multiple recognitions
2022-2024	Dean's Honor List (Full-Time multiple terms)

Selected Research Experience and Activities

2022- Present	Contribute to high-impact biomedical research and publications at the David Geffen School of Medicine, UCLA.
2025	Digital Humanities Research Project, Educational Equity Analysis
2024	Applied machine learning and statistical inference to high-dimensional biological datasets, BIG Summer Program, UCLA QCBio Institute
2024	Completed NIH Grant Writing Bootcamp, University of California, Los Angeles

Technical Skills

Programming & Data Science: R (tidyverse, tidymodels), Python (NumPy, Pandas, scikit-learn)

Statistics & ML: Statistical inference, machine learning, optimization

Visualization: R Shiny, ggplot2, Tableau

Documentation & Tools: Quarto, R Markdown, LaTeX, Git

Relevant Coursework

Linear Algebra (MATH 151)

Applied Numerical Methods (MATH 151A)

Optimization (MATH 164)

Machine Learning (MATH 156)

Stochastic Processes (MATH 171)

Algorithms (MATH 182)

Linear Models (STATS 100C)

Introduction to Data analysis and Regression (STATS 101A)

Introduction to Design and Analysis of Experiment (STATS 101B)

Introduction to Statistical Models and Data Mining (STATS 101C)

Introduction to Computation and Optimization for Statistics (STATS 102 B)

Introduction to Monte Carlo Methods (STATS 102C)

Publications

[1] Ghovvati M, Guo L, **Bolouri K**, Kaneko N. Advances in electroconductive polymers for biomedical sector: structure and properties. Materials Chemistry Horizons 2023; 2(2):125-137. DOI: 10.22128/mch.2023.681.1038

[2] Ghovvati M, **Bolouri K**, Guo L, Kaneko N, Jin X, Xu Y, Hua Z, Lei Y. Harnessing the Power of Electroconductive Polymers for Breakthroughs in Tissue Engineering and Regenerative Medicine. Materials Chemistry Horizons 2023; 2(3): 195-206. DOI: 10.22128/mch.2023.693.1042

[3] Naghdi M, Ghovvati M, Rabiee N, Ahmadi S, Abbariki N, Sojdeh S, Ojaghi A, Bagherzadeh M, Akhavan O, Sharifi E, Rabiee M, Saeb MR, **Bolouri K**, Webster T, Nazarzadeh Zare E, Zarrabi A. Magnetic nanostructures for biomedical applications. Advances in Colloid and Interface Science 2022; 308:102771. DOI: 10.1016/j.cis.2022.102771

[4] Ghovvati M, Hosseini M, Kharaziha M, Kaneko N, **Bolouri K**. Cell types: origin and function. American Chemical Society; 2024; Chapter 2: 9-30. DOI: 10.1021/bk-2024-1464.ch002

[5] Ghovvati M, **Bolouri K**, Kaneko N, Nazarzadeh Zare E. Metal-Organic Frameworks in Bone Regeneration. American Chemical Society; 2024; Chapter 11: 267-286. DOI: 10.1021/bk-2024-1463.ch011

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