Keivan Bolouri

Curriculum Vitae

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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**, *Summa Cum Laude* *Los Angeles Trade Technical College (LATTC)*	GPA: 4.0

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.
2024	Applied machine learning and statistical inference to high-dimensional biological datasets through the *BIG Summer Program, UCLA QCBio Institute.*
2024	Completed NIH Grant Writing Bootcamp, *University of California, Los Angeles.*
2025	Digital Humanities Research Project, Educational Equity Analysis.
2025	Statistical Analysis of Civilian Harm in Counterterrorism Operations Quantitative analysis of civilian casualties and reporting uncertainty using open-source strike data and appropriate count-data models.
2025	Predicting Skin Cancer Using Statistical Learning Models Comparative analysis of logistic regression, LASSO, and elastic net models on structured clinical data to evaluate predictive performance.

Technical Skills

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

Statistics & Machine Learning: 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 Experiments (STATS 101B)
Introduction to Statistical Models and Data Mining (STATS 101C)
Introduction to Computation and Optimization for Statistics (STATS 102B)
Introduction to Monte Carlo Methods (STATS 102C)
Causal Inference for Health Data (STATS C160)
Biostatistics in Public Health (BIOS 121)

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 M.R., **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