

CURRICULUM VITAE

Nikhil Devanathan

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PhD Candidate

Education

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|-------------------------------------|-------------------|
| Ph.D. Electrical Engineering | 4.0 GPA |
| Stanford University | Sep 2025–Present |
| M.S. Electrical Engineering | 3.9 GPA |
| Stanford University | Sep 2022–Jun 2024 |
| B.S. Math | 3.9 GPA |
| Stanford University | Sep 2020–Jun 2024 |

Experience

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| AI Labs Researcher | Jul 2024–present |
| AI Labs, BlackRock | |
| Undergraduate Researcher | Jun 2022–Jun 2024 |
| Prof. Stephen Boyd’s Research Group, Electrical Engineering, Stanford University | |
| AI Labs Intern | Jun 2023–Mar 2024 |
| AI Labs, BlackRock | |
| Technical Intern | Jun–Aug 2021 |
| Chemical and Biological Signatures Group, Pacific Northwest National Laboratory | |

Teaching

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| Teaching Fellow, Convex Optimization I | Jun–Aug 2026 |
| EE 364A (CME 364A), Stanford University | |
| Teaching Assistant, Introduction to Machine Learning | Mar–Jun 2024 |
| EE 104 (CME 107), Stanford University | |
| Teaching Assistant, Convex Optimization I | Jan–Mar 2023 |
| EE 364A (CME 364A), Stanford University | |
| Teaching Assistant, Linear Dynamical Systems | Sep–Dec 2022 |
| EE 263 (CME 263), Stanford University | |

Publications

- N. Devanathan, L. Bell, D. Rueter, S. Boyd, “A Distributed Method for Cooperative Transaction Cost Mitigation”, 2026, arXiv preprint
- N. Devanathan, D. Rueter, S. Boyd, E. Candès, T. Hastie, M. J. Kochenderfer, A. Apoorv, D. Soronow, I. Zamkovsky, “Single-Asset Adaptive Leveraged Volatility Control”, 2026, arXiv preprint
- L. Bell, N. Devanathan, S. Boyd, “Efficient Shapley Performance Attribution for Least-Squares Regression”, 2024, *Statistics and Computing*

- N. Devanathan, S. Boyd, “Polyak Minorant Method for Convex Optimization”, 2024, *Journal of Optimization Theory and Applications*
- C. Harrilal, S. Garimella, J. Chun, N. Devanathan, X. Zheng, Y. Ibrahim, C. Larriba-Andaluz, G. Schenter, R. Smith, “The Role of Ion Rotation in Ion Mobility: Ultrahigh-Precision Prediction of Ion Mobility Dependence on Ion Mass Distribution and Translational to Rotational Energy Transfer”, 2023, *The Journal of Physical Chemistry A*