
✉ forrestbicker@gmail.com

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FORREST BICKER

Mathematics + Computer Science

 forrestbicker

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EDUCATION

Harvey Mudd College

B.S. Mathematics and Computer Science

Claremont, CA

Aug 2021 - May 2025

- 4.0 Major GPA, Quant & Data Science Club President, ICPC, Research @ {Backgammon Group, AMISTAD, ALPAQA}
- Courses: Operations Research, Stochastic Processes, Statistical Models, Time Series, Mathematics of ML, Neural Networks

Hunter College High School

New York, NY

EXPERIENCE

 **Arrowstreet** Boston, MA
Quant Researcher *Jul 2025 - Present*

- Conduct profitable research.

 **DE Shaw & Co.** New York, NY
Quant Intern *Jun - Aug 2024*

- Researched improvements to portfolio optimization and improved efficiency of quadratic program solver.

 **Amazon Web Services** Seattle, WA
Software Engineer Intern *Jul - Sep 2022*

- Fortified AWS Kubernetes platform against server capacity failures by deploying updates to production vertical auto-scaler.
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RESEARCH

AMISTAD Lab Claremont, CA
Machine Learning Research under Dr. George Montañez *May - Sep 2022*

- Published “From Targets to Rewards: Continuous Target Sets in the Algorithmic Search Framework” in ICAART 2024
- Proved theoretical bounds on the Bias-Expressivity tradeoff for continuous learning problems and fuzzy membership.

Backgammon Group Claremont, CA
Backgammon Research under Dr. Arthur Benjamin *Nov 2021 - May 2022*

- Designed quantitative strategies for tournament backgammon play under former world champion Dr. Arthur Benjamin.
- Developed novel betting strategy that outperforms state-of-the-art methods and proved successful in tournament play.

Loverde Laboratory New York, NY
Computational Chemistry Research under Dr. Sharon Loverde *Jul 2019 - Aug 2021*

- Developed generalized algorithm to coarse-grain molecular dynamics simulations within optimal computational bounds.
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AWARDS

- 1st Place Paper** at Citadel Global Data Open Championship (\$100,000 prize)
 - 1st Place** at IMC Prosperity Global Trading Challenge (\$25,000 prize, 1st of 13,500)
 - Top 50 USA** at ICPC North American Championship (International Collegiate Programming Contest NAC-NAPC)
 - 1st Place (2x)** at West Coast Datathon (\$20,000 prize)
 - 1st Place** at National Security Agency (NSA) Cybersecurity Hacklytics Challenge
 - 3rd Place** Algorithm at Worldwide Correlation One Terminal (\$2,500 prize)
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TECHNOLOGIES

 Python,  C++,  Pandas,  NumPy,  Statsmodels,  Scikit-Learn,  SciPy,  CVXPY