ADITHYA BHASKARA

Boulder, CO linkedin.com/in/adithya-bhaskara/

References available upon request.

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Google Scholar

EDUCATION

University of Colorado Boulder

Boulder, Colorado

Longmont, Colorado

Bachelor of Science - Computer Science; Bachelor of Arts - Mathematics

August, 2022 - May, 2026

Courses: Data Structures, Linear Algebra, Algorithms, Theory of Computation, Computational Complexity, Linear and Integer Programming, Quantum Computing, Computer Systems, Principles of Programming Languages (In Progress), Real Analysis I, Abstract Algebra I

Major GPA: 4.000, Cumulative GPA: 3.986

Front Range Community College High School Concurrent Enrollment

June, 2021 - August, 2022

 $\textbf{\textit{Courses:}} \ \ \textit{Calculus III, Differential Equations With Linear Algebra, Discrete Mathematics, Physics II, Introduction to C++ \\ \textbf{\textit{Cumulative GPA: 4.000}}$

SKILLS

• Computer Languages & Tools:

Python, C++, Java*, Matlab*, Scala* IATEX, Docker*, HTML*, CSS*, JavaScript*

• Human Languages:

English, Kannada, French*

Soft Skills:

Teaching, Leadership, Communication

* Elementary Proficiency

EXPERIENCE

University of Colorado Boulder

Boulder, CO

Theoretical Computer Science Undergraduate Researcher, Advised by Rafael Frongillo, Ph. D. May, 2023 - Present

- o Sought to understand optimal liquidity provisioning in decentralized exchanges and prediction markets.
- Sought to understand aspects of liquidity provisioning from a contract design perspective and formulated a general theory for automated market makers, resulting in the paper:
 - * Adithya Bhaskara, Rafael Frongillo, and Maneesha Papireddygari. A general theory of liquidity provisioning for automated market makers. arXiv preprint arXiv:2311.08725, 2023
- Developed basic understanding of topics in algorithmic game theory and computational social choice theory.
- Active in the algorithmic economics reading group.

University of Colorado Boulder

Boulder, CO

CSCI 3104: Algorithms Learning Assistant

January, 2024 - May, 2024

- Met regularly with the Algorithms instructional team to prepare for the upcoming week of instruction and ensure student success.
- Held regular office hours to help students with fundamental algorithms concepts including graph algorithms, the divide-and-conquer paradigm, dynamic programming, amortized analysis, and computational complexity theory.
- Served as a resource for students to voice questions and concerns about Calculus I content.

University of Colorado Boulder

Boulder, CO

MATH 1300: Calculus I Learning Assistant

January, 2023 - May, 2023

- \circ Co-led two weekly recitation sections of ≈ 35 students each for Calculus I with a graduate teaching assistant.
- Met regularly with the Calculus I instructional team to prepare for the upcoming week of instruction and ensure student success.
- Tutored students in the University of Colorado Boulder's Mathematics Academic Resource Center help room.
- Served as a resource for students to voice questions and concerns about Calculus I content.

Honors, Awards, and Funding

- Boettcher Scholarship (Full Ride $\approx \$140,000$ Value) Awardee

April, 2022

 - Algorithmic Economics NSF REU Grant (
 $\approx \$8,000$ Value) Recipient May, 2023

- Funded by Rafael Frongillo's NSF CAREER Award.
- Marlene Massaro Pratto and David Pratto Scholarship in Mathematics (\$2,500 Value)

June, 2024

• University of Colorado Boulder Engineering Honors Student

February, 2022

• National Merit Finalist

February, 2022

• Colorado School of Mines Medal of Achievement in Mathematics and Science Awardee

May, 2021

SCHOLARLY SERVICE & ADDITIONAL RESEARCH ACTIVITY

• Engineering Honors Program Admissions Executive Committee Member

University of Colorado Boulder, 2024

• Norlin Scholarship Admissions Reviewer

University of Colorado Boulder, 2023, 2024

References

[1]	Adithya Bhaskara,	Rafael F	Frongillo,	and Maneesha	Papireddygari.	A ge	eneral th	neory	of liquidity	provisioning i	for
	automated market	makers.	arXiv pro	eprint arXiv:2.	311.08725, 2023						