

ADITHYA BHASKARA

Boulder, CO

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References available upon request.

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Google Scholar

EDUCATION

- University of Colorado Boulder** Boulder, 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** Longmont, Colorado
High School Concurrent Enrollment *June, 2021 - August, 2022*
Courses: Calculus III, Differential Equations With Linear Algebra, Discrete Mathematics, Physics I, Physics II, Introduction to C++
Cumulative GPA: 4.000

SKILLS

- Computer Languages & Tools:** Python, C++, Java*, Matlab*, Scala* \LaTeX , 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*
 - 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 Papireddygar. A general theory of liquidity provisioning for automated market makers. 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*
 - 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 Frongillo, and Maneesha Papireddygar. A general theory of liquidity provisioning for automated market makers. 2023.