ADITHYA BHASKARA

Boulder, CO
officialadithya.github.io

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 - (Expected) May, 2026*
Major GPA: *4.000,* **Cumulative GPA:** *3.987*
Relevant Coursework: 4 Graduate Courses: Linear and Integer Programming, Algebra, Theory of Computation, Design and Analysis of Algorithms, Complexity Theory (Audit)

Front Range Community College Longmont, Colorado
High School Concurrent Enrollment *June, 2021 - August, 2022*
Cumulative GPA: *4.000*

RESEARCH EXPERIENCE

University of Colorado Boulder **Undergraduate Researcher**
Advised by Rafael Frongillo, Ph. D. *May, 2023 - Present*

- Seeking to understand liquidity provisioning in prediction markets and decentralized exchanges from a contract design perspective.
- Thinking about liquidity provisioning as multiple automated market makers running in parallel.
- Active in the algorithmic economics reading group.
- Research interests include algorithmic economics, computational social choice theory, and complexity theory

- Papers

  1. Adithya Bhaskara, Rafael Frongillo, and Maneesha Papireddygari. A general theory of liquidity provisioning for automated market makers. *arXiv preprint arXiv:2311.08725*, 2023

- Talks

  1. Adithya Bhaskara, Rafael Frongillo, and Maneesha Papireddygari. A general theory of liquidity provisioning for automated market makers, 2024. Workshop on Blockchains and Decentralized Finance at EC'24

TEACHING EXPERIENCE

University of Colorado Boulder
- CSCI 3104: Algorithms, Spring 2024. Course Assistant.
- MATH 1300: Calculus I, Spring 2023. Learning Assistant.

Silver Creek High School
- Instructional Student Assistant Program Director, Fall 2021-Spring, 2022.
- College-Preparatory Physics, Spring, Fall, 2021-Spring, 2022. Instructional Student Assistant.
- High School Algebra I, Fall, 2020. Instructional Student Assistant.
- High School Algebra II, Spring, 2020. Instructional Student Assistant.

Innovation Center of St. Vrain Valley Schools
- Advanced Cybersecurity with Python Programming, Summer 2023. (Intensive 7-Hour/Day Weeklong Course). Instructor.
- Fundamentals of Cybersecurity, Summers 2019-2022. (Intensive 7-Hour/Day Weeklong Course). Instructor.

HONORS, AWARDS, AND FUNDING

- Boettcher Scholarship (Undergraduate Merit-Based Full Ride $\approx \$140,000$ Value) Awardee *April, 2022*
- Economics and Computation 2024 Travel Grant, Funded by Rafael Frongillo's NSF CAREER Award *July, 2024*
- Algorithmic Economics NSF REU Grant Recipient, Funded by Rafael Frongillo's NSF CAREER Award *May, 2023*
- 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*
- Engineering Honors Program First-Year Seminar Recitation Leader *University of Colorado Boulder, 2024*
- Semi-technical blog at https://officialadithya.github.io/blog/

References

[1] Adithya Bhaskara, Rafael Frongillo, and Maneesha Papireddygari. A general theory of liquidity provisioning for automated market makers. *arXiv preprint arXiv:2311.08725*, 2023.

[2] Adithya Bhaskara, Rafael Frongillo, and Maneesha Papireddygari. A general theory of liquidity provisioning for automated market makers, 2024. Workshop on Blockchains and Decentralized Finance at EC'24.