Naina Balepur

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EDUCATION

2020 - 2026 **Ph.D. Candidate in Computer Science**
University of Illinois Urbana Champaign

2016 - 2020 **Bachelor of Science in Applied Mathematics**
Bachelor of Arts in Philosophy
Minor in Computer Science
University of Pittsburgh

PUBLICATIONS

Naina Balepur and Hari Sundaram. 2024. Intervening to Increase Community Trust for Fair Network Outcomes. In ACM Conference on Fairness, Accountability, and Transparency (ACM FAccT '24), June 3–6, 2024, Rio de Janeiro, Brazil. ACM, New York, NY, USA, 17 pages.

Aditya Karan*, Naina Balepur*, and Hari Sundaram. 2023. Your Browsing History May Cost You: A Framework for Discovering Differential Pricing in Non-Transparent Markets. In Proceedings of the 2023 ACM Conference on Fairness, Accountability, and Transparency (FAccT '23). Association for Computing Machinery, New York, NY, USA, 717–735.

Naina Balepur*, Andy Lee*, and Hari Sundaram. "Friends with Costs and Benefits: Community Formation with Myopic, Boundedly-Rational Actors." *arXiv preprint arXiv:2312.14293*(2023).

* Equal contribution

POSTERS AND TALKS

ACM FAccT 2024 June 2024
Rio de Janeiro, Brazil
- Talk: *Intervening to Increase Community Trust for Fair Network Outcomes*

ACM FAccT 2023 June 2023
Chicago, IL
- Talk: *Your Browsing History May Cost You: A Framework for Discovering Differential Pricing in Non-Transparent Markets*

CRA WP 2023 April 2023
San Francisco, CA
- Poster: *A Model for Altruistic Social Learning on Networks*

Math Fest April 2019
University of Pittsburgh
- Poster: *Development and Application of a Game Theoretic Model for Competition Among Bacterial Strains in a Spatial Domain*

Undergraduate Research Symposium July 2018
Duquesne University
- Poster: *Development and Application of a Game Theoretic Model for Competition Among Bacterial Strains in a Spatial Domain*

TEACHING

Instructor

University of Illinois Urbana-Champaign

- CS 173 – Discrete Structures (Summer 2024)

Graduate Computer Science Teaching Assistant

University of Illinois Urbana-Champaign

- Head TA: CS 173 – Discrete Structures (Spring 2021, Summer 2021, Fall 2021, Spring 2022, Summer 2022, Fall 2022, Spring 2023, Fall 2023, Spring 2024)
- TA: CS 125 – Introduction to Computer Science (Fall 2020)

Undergraduate Mathematics Teaching Assistant and Tutor

University of Pittsburgh

- Pre-Calculus (Jan 2020 – April 2020)
- Applied Algebra (Aug 2019 – Dec 2019)
- College Algebra (Aug 2018 – April 2019)

WORK EXPERIENCE

Student Contractor — May 2023 – Aug 2023

US Army Construction Engineering Research Laboratory

- Worked as a research assistant at CERL under Joseph Gamez
- Reworked an existing project to run more smoothly and be accessible to a non-computing audience

LEADERSHIP & SERVICE

CS Graduate Student Organization: Vice President	Aug 2024 – Present
KDD Reviewer	Feb 2024
WebConf Sub-Reviewer	Jan 2024
CS Graduate Student Organization: Secretary	Aug 2022 – May 2024
GradSWE: Outreach Coordinator	May 2022 – Present
Technology Volunteer	Jan 2022 – Present
CS Graduate Study Committee Member	Oct 2021 – Aug 2022
GradSWE Mentor	Sep 2021 – Aug 2022
WWW Sub-Reviewer	November 2021

HONORS & AWARDS

FAccT 2024 Travel Award	2024
Lifetime Teaching Assistant Award	2024
Graduate Student Outstanding Ambassador Award	2024
Conference Presentation Funding Award	2024
NSF GRFP Honorable Mention	2022
Computer Science Excellence Fellowship	2020 – 2021
University of Pittsburgh Full Tuition Scholarship	2016 – 2020

Undergraduate and Graduate Coursework: Advanced Calculus 1 & 2, Numerical Math: Linear Algebra, Mathematical Biology, Formal Methods in CS, Theory of Computation, Web Apps, Applied Machine Learning, Database Systems, Graduate-level Algorithms, Text Information Systems, Algorithmic Game Theory, Algorithms for Data Analytics, Graph Algorithms, CS Education

Programming Languages and Skills: Python, Java, SQL; Experience with R, MongoDB, Neo4j, MATLAB, HTML, and JavaScript