NAINA BALEPUR Ph.D. Candidate

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http://nainasb.github.io

EDUCATION

University of Illinois Urbana-Champaign Urbana, IL
Ph.D. in Computer Science 2020 - 2026 *(expected)*
- Advisor: Prof. Hari Sundaram
- Research area: Social network analysis and applied game theory

University of Pittsburgh Pittsburgh, PA
B.S. in Applied Mathematics, B.A. in Philosophy 2016 - 2020
- Minor in Computer Science

PUBLICATIONS

1. Aditya Karan*, **Naina Balepur***, and Hari Sundaram. Oh the Prices You'll See: Designing a Fair Exchange System to Mitigate Personalized Pricing. *Proceedings of the 2025 ACM Conference on Fairness, Accountability, and Transparency (ACM FAccT '25).*

2. **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).*

3. 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).*

4. **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).

* authors contributed equally to this work

POSTERS AND TALKS

Intervening to Increase Community Trust for Fair Network Outcomes
Talk at ACM FAccT 24 June 2024

Your Browsing History May Cost You: A Framework for Discovering Differential Pricing in Non-Transparent Markets
Talk at ACM FAccT 23 June 2023

A Model for Altruistic Social Learning on Networks
Poster at CRA WP 23 April 2023

Development and Application of a Game Theoretic Model for Competition Among Bacterial Strains in a Spatial Domain
Poster at Pitt Math Fest April 2019

Development and Application of a Game Theoretic Model for Competition Among Bacterial Strains in a Spatial Domain
Poster at Undergraduate Research Symposium July 2018

WORK EXPERIENCE

US Army Construction Engineering Research Lab | Champaign, IL   May - Aug 2023
- 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

TEACHING	**CS 173: Discrete Structures at UIUC** — Urbana, IL

CS 173: Discrete Structures at UIUC   Urbana, IL
Instructor   SU24, FA24, SP25, SU25
- Served as sole instructor in Summer 2024; co-instructed in Fall 2024, Spring 2025, Summer 2025

CS 173: Discrete Structures at UIUC   Urbana, IL
Head TA   SP23, FA23, SP24
- Delegated tasks to TAs, developed rubrics

CS 173: Discrete Structures at UIUC   Urbana, IL
TA   SP21, SU21, FA22, SP22, SU22, FA22
- Held office hours, graded exams, and helped students with group problem solving

CS 125: Introduction to Computer Science at UIUC   Urbana, IL
TA   FA20
- Held office hours and designed review sessions

AWARDS AND HONORS
- **Teacher Ranked as Excellent by Students**, UIUC   Summer 2024
- **Travel Award**, ACM FAccT   2024
- **Lifetime Teaching Assistant Award**, UIUC   Spring 2024
- **Graduate Student Outstanding Ambassador Award**, UIUC   2024
- **Conference Presentation Funding Award**, UIUC   2024
- **NSF GRFP Honorable Mention**   2022
- **Computer Science Excellence Fellowship**, UIUC   2020-2021
- **Full Tuition Scholarship**, Pitt   2016-2020

LEADERSHIP AND SERVICE

Reviewer for: *ACM EAAMO 25*
ACM KDD 24
ACM WebConf 24
ACM WWW 22

Secretary: *CS Graduate Student Organization*   Aug 2022 - May 2024
                                                                  Aug 2025 - Present
Technology Volunteer: *Urbana Free Library*   Jan 2022 - Present
Vice President: *CS Graduate Student Organization*   Aug 2024 - May 2025
Outreach Coordinator: *GradSWE*   May 2022 - May 2025
Teaching Volunteer: *Graduate Academy for College Teaching*   Aug 2024
Committee Member: *CS Graduate Study Committee*   Oct 2021 - Aug 2022
Mentor: *GradSWE*   Sept 2021 - Aug 2022

SKILLS

Programming: `Python`, `Java`, `SQL`, `MATLAB`, `R`.