NAINA BALEPUR Ph.D. Candidate

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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. **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.

2. 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.

3. **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
	Instructor	SU24, FA24

- Served as sole instructor in Summer 2024, co-instructed with Prof. Carl Evans in Fall 2024

	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

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 KDD 24*	
	ACM WebConf 24	
	ACM WWW 22	
	Vice President: *CS Graduate Student Organization*	Aug 2024 - Present
	Outreach Coordinator: *GradSWE*	May 2022 - Present
	Technology Volunteer: *Urbana Free Library*	Jan 2022 - Present
	Secretary: *CS Graduate Student Organization*	Aug 2022 - May 2024
	Committee Member: *CS Graduate Study Committee*	Oct 2021 - Aug 2022
	Mentor: *GradSWE*	Sept 2021 - Aug 2022

SKILLS	**Languages**: English, Spanish *(Proficient)*, Hindi *(Beginner)*
	Programming: `Python`, `Java`, `SQL`, `MATLAB`, `R`.