

Ahana Bhattacharya

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Interests

My interests lie broadly in **algorithmic fairness** – particularly in the domains of hiring, education, healthcare, and criminal justice – as well as **AI governance** and **tech policy**. I would like to use theoretical models and causal inference to investigate the use of machine learning algorithms in social systems that have been historically discriminatory and biased.

Education

Aug 2020 May 2024	University at Buffalo School of Engineering and Applied Sciences Bachelor of Science, Computer Science; Minor in Mathematics <i>Magna Cum Laude</i>	Buffalo, NY
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Research Experience

Present Jan 2023	Purdue University Responsible Data Science Lab <i>Undergraduate Research Assistant</i> Advisor: Dr. Romila Pradhan Building and exploring efficient methods to measure the fairness of a given machine learning model pre-deployment.	Remote
Feb 2023 May 2022	University at Buffalo Computation and Equity (cUBE) Lab <i>Undergraduate Research Assistant</i> Advisor: Dr. Kenneth Joseph Formulated new approaches to investigate civic engagement on social media with the help of findings that problematize current conceptions of online political behavior.	Buffalo, NY
May 2022 Jan 2022	University at Buffalo Computing 4 Social Good (CS4G) Group <i>Undergraduate Research Assistant</i> Advisors: Dr. Maria Rodriguez , Dr. Kenneth Joseph Conducted a mixed-methods analysis of child welfare policy in the United States and found a range of implied justice values within administrative rules, from established concepts like fairness and equity to more nuanced foci on bodies as property.	Buffalo, NY

Publications

S = Under Submission

- [S] The 'Who,' 'How,' and 'When,' of Elite Political Discourse on Twitter/X Before and After the Murder of George Floyd
Alyssa Smith, [Ahana Bhattacharya](#), Holliday Smith, and Kenneth Joseph
ACM SIGCHI Conference on Computer-Supported Cooperative Work & Social Computing [CSCW'25]
- [S] Justice in Child Welfare Policy: Towards the Development of a Contextual Ethics Framework for Deployment of AI in Human Service Systems
Maria Rodriguez, Seventy Hall, Kenneth Joseph, [Ahana Bhattacharya](#), Benson Cai, Hannah Wilcox, and Connor Wurst
ACM CHI Conference on Human Factors in Computing Systems [CHI'25]

Professional Experience/Mentorship

Present Aug 2024	Bank of America <i>Software Engineer</i>	New York, NY
Aug 2023 June 2023	Bank of America <i>Software Engineering Intern</i> Implemented an internal app using Python to automate the process of booking 1000+ trades and increase efficiency by 60%.	New York, NY
Dec 2022 Sept 2022	Google Research <i>Computer Science Research Mentorship Program (CSRMP) Mentee</i> [🔗]	Remote

Teaching and Leadership Roles

CSE 331: Algorithms and Complexity, University at Buffalo *Undergraduate TA* Feb 2023 - May 2024

- > led a recitation of 40+ students to help them strengthen and better grasp fundamental concepts such as writing mathematical proofs and implementing algorithms to solve real world problems
- > held weekly office hours and graded assignments/exams

CSE 220: Systems Programming, University at Buffalo *Undergraduate TA* Aug 2022 - May 2024

- > led weekly labs with co-TAs where we walked students through short programming assignments in order to tackle more complex course projects
- > held weekly office hours, and organized review sessions and graded mid-term and final exams

Diversity in Technology Club (DivTech), University at Buffalo *Director* Aug 2020 - May 2024

- > Led the UB DivTech E-board and helped foster a diverse community of students and faculty in the Computer Science department through social and educational events

UB Hacking, University at Buffalo *Web Team Co-Lead* Aug 2020 - May 2024

- > Led UB Hacking's web team alongside redesigning and re-building the official UB Hacking website

Awards

Undergraduate Leadership/Service Award, 2024

Awarded to two graduating seniors in the Department of Computer Science and Engineering (CSE) who exhibit exceptional service for the department and/or UB as a whole

University at Buffalo Engineering Fellow and Scholarship Recipient, 2022

Awarded to two undergraduate or graduate students in the School of Engineering and Applied Sciences

University at Buffalo Grace Hopper Conference Scholarship Recipient, 2022

Received a fully funded scholarship to attend GHC

Anita B. Org Grace Hopper Conference Scholarship Recipient, 2021

Received a fully funded scholarship to attend GHC