Ahana **Bhattacharya**

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Interests

My interests lie broadly in **algorithmic fairness** – particularly in the domains of automated decision-making – as well as **AI governance** and **tech policy**. I would like to to use theoretical models and causal inference to investigate the use of machine learning algorithms in social systems that have been historically biased.

Education

Present **Aug 2025**	**Brown University** ⎮ **Department of Computer Science** Ph.D., Computer Science **Advisor**: Suresh Venkatasubramanian	**Providence, RI**
May 2024 **Aug 2020**	**University at Buffalo** ⎮ **Department of Computer Science and Engineering** Bachelor of Science, Computer Science; Minor in Mathematics *Magna Cum Laude*	**Buffalo, NY**

Research Experience

Jan 2025 **Jan 2023**	**Purdue University** ⎮ **Responsible Data Science Lab** *Undergraduate Research Assistant* ⎮ *Advisor: Dr. Romila Pradhan* Built and explored 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** *Undergraduate Research Assistant* ⎮ *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** *Undergraduate Research Assistant* ⎮ *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] **The 'Who,' 'How,' and 'When,' of Elite Political Discourse on Twitter/X Before and After the Murder of George Floyd**

Alyssa Smith, <u>Ahana Bhattacharya</u>, Holliday Smith, and Kenneth Joseph

[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, <u>Ahana Bhattacharya</u>, Benson Cai, Hannah Wilcox, and Connor Wurst

Professional Experience/Mentorship

Aug 2025 **Aug 2024**	**Bank of America** *Software Engineer*	**New York, NY**
Aug 2023 **June 2023**	**Bank of America** *Software Engineering Intern* Implemented an internal app using Python to automate the process of booking 1000+ trades and increase efficiency by 60%.	**New York, NY**

| Dec 2022 | **Google Research** | **Remote** |
| Sept 2022 | *Computer Science Research Mentorship Program (CSRMP) Mentee* [⚲] | |

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