Mohona Ghosh

Curriculum Vitae

Doctoral Student, Jimmy and Rosalynn Carter School of Public Policy
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Education

Doctor of Philosophy in Public Policy **Aug 2025 – Present**
Georgia Institute of Technology, Atlanta, GA
Concentration: Information and Communication Technologies
Advisor: Dr. Milton Mueller

Bachelor of Science in Computer Engineering **Aug 2020 – May 2024**
Texas A&M University, College Station, TX
Craig and Galen Brown Engineering Honors Program
Graduated Cum Laude
Minors: Mathematics, Cybersecurity

Thesis: "Evaluating the Impact of Lifestyle-Altering Events on the Usage of Green Transportation Systems"

Awards and Honors

- **President's Fellow,** Georgia Institute of Technology
- **Institute Fellow,** Georgia Institute of Technology (awarded to a select group of President's Fellows.)
- **Dean's Honor Roll,** Texas A&M University College of Engineering (3 semesters. Minimum 3.75 GPA and 15 credit hours, for a semester.)
- **Distinguished Student Award,** Texas A&M University College of Engineering (Minimum 3.5 GPA and 15 credit hours, for a semester.)
- **James H. Perkins Memorial Scholarship**, Texas A&M University

Working Papers

1. Short, N., Ash, E., Draca, M., **Ghosh, M.** *The Reagan Shock: Reagan-Era Defense Spending and the American Knowledge Economy*. [In Preparation].

2. Kuerbis, B., **Ghosh, M.**, *When Software Strays: Principal-Agent Theory and the Governance of Agentic Software*. In Preparation. [In Preparation].

3. **Ghosh, M.** *Fairness in AI: Can Novel Methods of Bias Mitigation Satisfy Multiple Definitions of Fairness?*. In preparation, Target Journal: *AI and Ethics*. [In preparation].

4. **Ghosh, M.**, Ray, S. J., & Hammond, T. A. *A Survey of the Applications of Machine Learning to the Bike Rebalancing Problem*. [Report in preparation].

Teaching Experience

Texas A&M University College of Engineering **Aug 2021 – May 2022**
Teaching Assistant
CSCE 221: Data Structures and Algorithms (Enrollment: 80 students)
CSCE 121: Introduction to Program Design (Enrollment: 100 students)
ENGR 102: Engineering Computation in Python. (Enrollment: 100 students)

Conference Presentations

September 2024. Presentation on “Fairness in AI: Evaluating AI Bias Mitigation Methods through Multiple Definitions of Fairness” at the 3rd International Conference on the Ethics of Artificial Intelligence (3ICEAI). Azores, Portugal.

November 2022. Presentation on “Optimizing Bike Share Usage at TAMU: Analyzing VeoRide Usage”. Part of the TxGIS Day 2022 Presentation Competition. Also presented at Undergraduate Research Scholars Symposium in February 2023. Texas A&M University-College Station.

Research Appointments

Academic

Internet Governance Project, Georgia Institute of Technology **Aug 2025 – Present**
PI: Dr. Milton Mueller

Carter School of Public Policy, Georgia Institute of Technology **Aug 2025 – Present**
Graduate Research Assistant, PI: Dr. Nicholas Short

Department of Philosophy, Texas A&M University **Apr 2024 – May 2025**
Advisor: Dr. Glen Miller

Sketch Recognition Lab **Aug 2020 – Dec 2025**
Undergraduate Researcher, PI: Dr. Tracy Hammond

Government

Sandia National Laboratories **May 2024 – Present**
Graduate R&D Intern – Mission-Driven Edge Analytics

Project: Excalibur

- AI red-teaming and security assessments, focusing on model evasion, model inference and exfiltration, and denial-of-service attacks.

Project: ERN

- Enterprise-scale R&D network planning, using the NIST SP 800-53 framework.

Project: Westworld

- Cyber experimentation and analytics on ICS/OT devices.

Project: Yellow Submarine

- Vulnerability assessments for embedded systems.

Service

- Planning Committee, 2025 Trilateral Doctoral Conference – Georgia Tech, Univ. of Manchester, Univ. of Johannesburg
- Senior Advisor, Programming Lead – Texas A&M WIRED VEX U Robotics