

# Mohona Ghosh

Curriculum Vitae

Doctoral Student, Jimmy and Rosalynn Carter School of Public Policy  
D.M. Smith Building Rm 124 | 685 Cherry Street, Atlanta, GA 30332

[mghosh36@gatech.edu](mailto:mghosh36@gatech.edu) | (469) 678-6585 | [spp.gatech.edu/people/person/m-ghosh](http://spp.gatech.edu/people/person/m-ghosh)

## Education

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### 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, CGPA: 3.68/4.0

Minors: Mathematics (GPA: 3.81/4.0), Cybersecurity (GPA: 3.81/4.0)

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

## Awards and Honors

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- **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

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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.
3. **Ghosh, M.** Fairness in AI: Can Novel Methods of Bias Mitigation Satisfy Multiple Definitions of Fairness? In preparation, Target Journal: *AI and Ethics*.
4. **Ghosh, M.** Ray, S. J., & Hammond, T. A. A Survey of the Applications of Machine Learning to the Bike Rebalancing Problem. In Preparation.

## Teaching Experience

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### Texas A&M University College of Engineering

Aug 2021 – May 2022

*Peer Teacher (TA)*

CSC221: Data Structures and Algorithms (Enrollment: 80 students)

CSC211: Introduction to Program Design (Enrollment: 100 students)

ENGR 102: Engineering Computation in Python. (Enrollment: 100 students)

## Conference Presentations

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September 2024. Presentation on “Fairness in AI: Evaluating AI Bias Mitigation Methods through Multiple Definitions of Fairness” at the 3<sup>rd</sup> 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

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### Academic

<b>Internet Governance Project, Georgia Institute of Technology</b> <i>PI: Dr. Milton Mueller</i>	<b>Aug 2025 – Present</b>
<b>Carter School of Public Policy, Georgia Institute of Technology</b> <i>Graduate Research Assistant, PI: Dr. Nicholas Short</i>	<b>Aug 2025 – Present</b>
<b>Department of Philosophy, Texas A&amp;M University</b> <i>Advisor: Dr. Glen Miller</i>	<b>Apr 2024 – May 2025</b>
<b>Sketch Recognition Lab</b> <i>Undergraduate Researcher, PI: Dr. Tracy Hammond</i>	<b>Aug 2020 – Dec 2025</b>

### Government

<b>Sandia National Laboratories</b> <i>Graduate R&amp;D Intern – Mission-Driven Edge Analytics</i> <b>Project: Excalibur</b> <ul style="list-style-type: none"><li>AI red-teaming and security assessments, focusing on model evasion, model inference and exfiltration, and denial-of-service attacks.</li></ul> <b>Project: ERN</b> <ul style="list-style-type: none"><li>Enterprise-scale R&amp;D network planning, using the NIST SP 800-53 framework.</li></ul> <b>Project: Westworld</b> <ul style="list-style-type: none"><li>Cyber experimentation and analytics on ICS/OT devices.</li></ul> <b>Project: Yellow Submarine</b> <ul style="list-style-type: none"><li>Vulnerability assessments for embedded systems.</li></ul>	<b>May 2024 – Present</b>
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### Service

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- 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