Shravika Mittal

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RESEARCH INTERESTS

Social Computing and Natural Language Processing; understanding how and why technology-mediated interactions, on online platforms and AI-powered systems, occur via computational analysis and theories of social engagement.

EDUCATION

Georgia Institute of Technology　　　　　　　　　　　　　　　　　　　　　　Atlanta, GA, USA
Ph.D. in Computer Science, School of Interactive Computing; CGPA: 4.00/4.00　　*Aug 2023 – May 2028 (Expected)*
Georgia Institute of Technology　　　　　　　　　　　　　　　　　　　　　　Atlanta, GA, USA
Master of Science in Computer Science; CGPA: 4.00/4.00　　　　　　　　　*Aug 2021 – May 2023*
Indraprastha Institute of Information Technology, Delhi　　　　　　　　　New Delhi, India
B.Tech. (Hons.) in Computer Science and Engineering; CGPA: 9.77/10　　　　*Aug 2016 – Jul 2020*
- Received the Chancellor's gold medal for the best academic performance, the highest recognition for an undergraduate.

PUBLICATIONS

- **Shravika Mittal**, Hayoung Jung, Mai ElSherief, Tanushree Mitra, Munmun De Choudhury. (2025). *Online Myths on Opioid Use Disorder: A Comparison of Reddit and Large Language Model.* Under review.

- **Shravika Mittal**, Mai ElSherief, Tanushree Mitra, Munmun De Choudhury. (2025). *Understanding the Impact of Consuming Human- and LLM-generated Content on Opioid Use Disorder.* In preparation.

- **Shravika Mittal**, Jasmine C. Foriest, Benjamin D. Horne, Munmun De Choudhury. (2024). *News Media and Violence Against Women: Understanding Framings of Stigma.* In Proceedings of the International AAAI Conference on Web and Social Media. ICWSM 2024. [Link]

- **Shravika Mittal**, Mai ElSherief, Tanushree Mitra, Munmun De Choudhury. (2024). *Evaluating Large Language Models: Stigma and Opioid Use Disorder.* In First Workshop on Human-Centered Evaluation and Auditing of Language Models (HEAL) at ACM CHI Conference on Human Factors in Computing Systems (CHI). [Link]

- Jasmine C. Foriest*, **Shravika Mittal***, Kirsten Bray*, Anh-Ton Tran*, Munmun De Choudhury. (2024). *A Cross Community Comparison of Muting in Conversations of Gendered Violence on Reddit.* In ACM Conference on Computer-Supported Cooperative Work and Social Computing. CSCW 2024. (*Equal Contribution)

- Jasmine C. Foriest, **Shravika Mittal**, Eugenia Kim, Natalie Lennon, Andrea Carmichael, Steven A. Sumner, Munmun De Choudhury. (2024). *News Media Framing of Suicide Circumstances and Gender: Mixed Methods Analysis.* JMIR Mental Health. [Link]

- Rachel Lowy, Khushi Magiawala, **Shravika Mittal**, Kaely Hall, Jessica Roberts, Jennifer Kim. (2024). *Research-Education Partnerships: A Co-Design Classroom for College Students with Intellectual and Developmental Disabilities.* In ACM Conference on Computer-Supported Cooperative Work and Social Computing. CSCW 2024.

- **Shravika Mittal**, Munmun De Choudhury. (2023). *Moral Framing of Mental Health Discourse and Its Relationship to Stigma: A Comparison of Social Media and News.* In ACM CHI Conference on Human Factors in Computing Systems. CHI 2023. [Link]

- Subhabrata Dutta, **Shravika Mittal**, Dipankar Das, Soumen Chakrabarti, Tanmoy Chakraborty. (2022). *Incomplete Gamma Integrals for Deep Cascade Prediction using Content, Network, and Exogenous Signals.* In IEEE Transactions on Knowledge and Data Engineering. [Link]

- **Shravika Mittal**, Tanmoy Chakraborty, Siddharth Pal. (2022). *Dynamics of node influence in network growth models.* In Physica A: Statistical Mechanics and its Applications. [Link]

- **Shravika Mittal**, Debarka Sengupta, Tanmoy Chakraborty. (2021). *Hide and Seek: Outwitting Community Detection Algorithms.* In IEEE Transactions on Computational Social Systems. [Link]

- Brihi Joshi*, **Shravika Mittal***, Aditya Chetan*. (2020). *Did You "Read" the Next Episode? Using Textual Cues for Predicting Podcast Popularity.* In First Workshop on NLP for Music and Audio (NLP4MusA) at International Society for Music Information Retrieval Conference. (*Equal Contribution) [Link]

- Nishtha Madaan, Sameep Mehta, **Shravika Mittal**, Ashima Suvarna. (2019). *Judging a Book by its Description: Analyzing Gender Stereotypes in the Man Bookers Prize Winning Fiction.* [Pre-print]

Internships and Work Experience

- **Georgia Institute of Technology, Atlanta, GA** *Jan 2022 – present*
  Graduate Research Assistant | Advised by: Dr. Munmun De Choudhury
  Analyzing online stigma surrounding mental health, interpersonal violence, and substance use disorders.

- **Adobe Research, San Jose, CA** *May 2022 – Jul 2022*
  Research Scientist Intern | Advised by: Dr. Kanak Mahadik, Dr. Ryan Rossi, and Dr. Sungchul Kim
  Developed a GPU instance recommendation system for training deep learning workloads. Work filed as a U.S. patent.

- **Adobe Inc., Noida, India** *Aug 2020 – Aug 2021*
  Software Development Engineer (Full Time) | Adobe Illustrator on iPad Team
  Developed "Rulers and Guides" feature using C++ and iOS programming, which received positive feedback from customers during beta release. Solved 100+ critical bugs to improve stability of the application.

- **Adobe Inc., Noida, India** *May 2019 – Jul 2019*
  Product Intern | Adobe Illustrator Team
  Collaborated with Adobe Research, San Francisco to build and ship a new feature for Illustrator using vector graphics and machine learning techniques.

- **IBM Research, New Delhi, India** [Media Coverage: HT News, Quartz] [GitHub] *Jun 2018 – Dec 2018*
  Research Intern | Fairness in ML Team
  Built a human-in-the-loop system to detect gender bias in plots of books shortlisted for Man Booker's Prize.

Awards and Achievements

- Awarded the 2024 Quad Fellowship (USD 40,000) [Media Coverage: Georgia Tech (1), Georgia Tech (2)] *2024*
- College of Computing Rising Star Doctoral Student Research Award at Georgia Tech *2024*
- AAAI Travel Award to attend ICWSM 2024 (USD 1,300) *2024*
- Gary Marsden SIGCHI Travel Award to attend CHI 2023 (USD 2,500) *2023*
- One of the top 30 finalists for Adobe Research Women-in-Technology Scholarship *2022*
- Chancellor's Gold Medal for the best academic performance in undergraduate *2020*
- Dean's letter of recognition for undergraduate thesis *2020*
- Invited to the Republic Reception at the Lt. Governor's residence *2020*
- Dean's List for Academic Excellence *2017, 2018, 2019*
- Won Google Women Techmakers Scholarship for APAC region *2019*
- Dean's List for Innovation in Research and Development [Director's blog] *2017*
- Rails Girls Summer of Code Scholar [Blog 1] [Blog 2] *2017*

Service and Leadership

- **Reviewer:** CHI 2023 (Special Recognitions for Outstanding Reviews), CSCW 2024, ICWSM 2025

- **Core Organizer:** Southwest CHI Regional Meetup

- **Student Volunteer:** EECS Rising Stars 2023 (Academic Career Workshop), ICWSM 2024

- **Mentor:** Darshi Shah (MS HCI at Georgia Tech), Oscar Zhang (CS undergraduate at Georgia Tech)

- **CSE632: Semantic Web, IIIT-Delhi** *Jan 2020 – May 2020*
  Teaching Assistant to 110 students | Graduate level course | Prepared quizzes and assignments.

- **ECO331: Foundations of Finance, IIIT-Delhi** *Aug 2019 – Dec 2019*
  Teaching Assistant to 100 students | Conducted weekly office hours, quizzes, and tutorials.

- **MTH303: Graph Theory, IIIT-Delhi** *Jan 2019 – Apr 2019*
  Teaching Assistant to 104 students | Conducted 11+ tutorials and 5+ doubt sessions.

- **Coach, Rails Girls Summer of Code** *Jul 2018 – Sep 2018*
  Mentored Team Delsquared for the 3-month program | Worked with the open source organization, Tessel.

- **Community Work Volunteer, UDAAN [GitHub]** *May 2017*
  Taught basics of Computer Science to 15 students with autism.
  Developed an Android App, FUEL (Fun, Education, and Learn), that won best in code sprint by Google.

- **Founding Member** and **Outreach Director** for Women Who Code Delhi *Aug 2016 – Aug 2021*

TALKS DELIVERED

- Workshop on Reclaiming the Narrative at ICWSM 2024 *2024*
- Junior-Senior interaction with students of CSE branch at IIIT-Delhi *2020*
- Introductory session on Rails Girls Summer of Code | Women in Tech, IIIT-Delhi *2019*
- Tutorial on Open CV | Women Who Code, Delhi [Slides] *2017*
- Tutorial on Tessel | LinuxChix, India [Twitter] *2017*

EXTRACURRICULAR

Member, W@CC | Club for Women at College of Computing, Georgia Tech *2021*

Member, Women in Tech | Club initiated by past WTM scholars at IIIT-Delhi *2018*

Member, Byld | IIIT-Delhi's Software Development Club *2017*