

Mohit Singhal

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<https://scholar.google.com/citations?user=8MNR5Y8AAAAJ&hl=en>

RESEARCH INTERESTS

Security & Privacy, Content Moderation, Data Mining, Fairness and Bias of AI systems, Computational Social Sciences

EDUCATION

The University of Texas at Arlington

Ph.D. in Computer Science

Advisor: Dr. Shirin Nilizadeh

Arlington, TX

Aug. 2019 – May 2024

The University of Texas at Arlington

M.S. in Computer Science

Advisor: David Levine

Arlington, TX

Aug. 2017 – May 2019

Jaypee University of Information Technology

B.Tech in Computer Science & Engineering

Solan, India

Aug. 2013 – May 2017

APPOINTMENTS

Research Active Assistant Teaching Professor

Northeastern University

Spring 2025 – present

Boston, MA

Affiliate Faculty at Northeastern Ethics Institute

Northeastern University

Fall 2024 – present

Boston, MA

Expert at The Center of Excellence in Cyber-Physical Systems

Jaypee University of Information Technology

Spring 2025 – present

Solan, India

Assistant Teaching Professor

Northeastern University

Fall 2024 – present

Boston, MA

Instructor

The University of Texas at Arlington

Fall 2021 & 2023, Spring 2023 & 2024

Arlington, TX

STEM Graduate Research Assistant

The University of Texas at Arlington

Spring 2022, & Summer 2023

Arlington, TX

STEM Graduate Teaching Assistant

The University of Texas at Arlington

Fall 2018 – Spring 2024

Arlington, TX

Summer Research Intern

Indian Institute of Technology

Summer 2016

Roorkee, India

Summer Research Intern

The University of Nebraska at Omaha

Summer 2015

Omaha, NE

THESIS

- *Ph.D. Thesis*: Content Moderation on Social Media: Social and Computational Standards and Implications
- *Masters Thesis*: Analysis and Categorization of Drive-By Download Malware Using Sandboxing and Yara Ruleset

PUBLICATIONS

- Khorzooghi, S. M. S. M., Thota, P., **Singhal, M.**, Asudeh, A., Das, G., & Nilizadeh, S. 2025. [Poster] FairDeFace: Evaluating the Fairness and Adversarial Robustness of Face Obfuscation Methods. In USENIX Security 2025.
- Kumarswamy, N.*, **Singhal, M.***, and Nilizadeh, S. 2025. Causal Insights into Parler's Content Moderation Shift: Effects on Toxicity and Factuality. In Proceedings of the ACM Web Conference 2025 (WWW '25), April 28-May 2, 2025, Sydney, NSW, Australia. ACM, New York, NY, USA, 10 pages. (* Joint Co-First Authors)

- **Singhal, M.**, Pacheco, J., Moosavi Khorzooghi, S. M. S., Debi, T., Asudeh, A., Das, G., & Nilizadeh, S. (2025). Auditing Yelp's Business Ranking and Review Recommendation Through the Lens of Fairness. Proceedings of the International AAAI Conference on Web and Social Media, 19(1), 1798-1816.
- Vafa, E. P.*, **Singhal, M.***, Thota, P., & Roy, S. S. (2024, November). Learning from Censored Experiences: Social Media Discussions around Censorship Circumvention Technologies. In 2025 IEEE Symposium on Security and Privacy (SP) (pp. 62-62). IEEE Computer Society. (* Joint Co-First Authors)
- **Singhal, M.**, Ling, C., Paudel, P., Thota, P., Kumarswamy, N., Stringhini, G., & Nilizadeh, S. (2023, July). SoK: Content moderation in social media, from guidelines to enforcement, and research to practice. In 2023 IEEE 8th European Symposium on Security and Privacy (EuroS&P) (pp. 868-895). IEEE.
- **Singhal, M.**, Kumarswamy, N., Kinhekar, S., & Nilizadeh, S. (2023, June). Cybersecurity Misinformation Detection on Social Media: Case Studies on Phishing Reports and Zoom's Threat. In Proceedings of the International AAAI Conference on Web and Social Media (Vol. 17, pp. 796-807).
- **Singhal, M.**, Kumarswamy, N., Kinhekar, S., & Nilizadeh, S. (2021). Poster: Detecting Misinformation about Zoom's Security and Privacy Threats. In (NDSS 2022). **Received Best Technical Poster Award**
- **Singhal, M.**, & Levine, D. (2019, October). Analysis and categorization of drive-by download malware. In 2019 4th International Conference on Computing, Communications and Security (ICCCS) (pp. 1-4). IEEE.

BROADER IMPACT

- Our paper SoK: Content Moderation in Social Media, from Guidelines to Enforcement, and Research to Practice was cited in *amicus curiae brief* submitted in **The Supreme Court** case *Moody v. NetChoice, LLC*.
- Our paper SoK: Content Moderation in Social Media, from Guidelines to Enforcement, and Research to Practice was cited in *amicus curiae brief* submitted in **The Supreme Court** case *NetChoice, LLC v. Paxton*.
- Our paper SoK: Content Moderation in Social Media, from Guidelines to Enforcement, and Research to Practice was cited in the official report submitted to *The Committee on Civil Liberties, Justice and Home Affairs* in **The European Union**.
- Our paper SoK: Content Moderation in Social Media, from Guidelines to Enforcement, and Research to Practice was cited in *amicus curiae brief* submitted in **The Supreme Court** case *Gonzalez v. Google LLC*.

WORKING PAPERS

- Khorzooghi, S. M. S. M., Thota, P., **Singhal, M.**, Asudeh, A., Das, G., & Nilizadeh, S. (2024, November). Hidden Faces or Hidden Biases?: Exploring Fairness and Robustness in Visual Privacy Protection Systems.
- Aleksandric, A., **Singhal, M.**, Groggel, A., & Nilizadeh, S. (2022). Understanding the Bystander Effect on Toxic Twitter Conversations. arXiv preprint arXiv:2211.10764.
- Salehabadi, N., Groggel, A., **Singhal, M.**, Roy, S. S., & Nilizadeh, S. (2022). User Engagement and the Toxicity of Tweets. arXiv preprint arXiv:2211.03856.

AWARDS

- Awarded the People's Choice Award for my Ph.D. lightning talk on *SoK: Content Moderation in Social Media, from Guidelines to Enforcement, and Research to Practice* at the 50th Anniversary function of The Computer Science and Engineering Department held at The University of Texas at Arlington, 2023.
- Recipient of the Student Travel grant for Euro S&P 2023.
- Awarded the best Ph.D. lightning talk runner-up award for the research lightning talk on *Detecting Misinformation about Zoom's Security and Privacy Threats* at SCRF conference held at The University of Texas at Arlington, 2023.
- Awarded the best project presentation & demo runner-up award for poster *Content Moderation in Social Media, from Guidelines to Enforcement, and Research to Practice* at SCRF conference held at The University of Texas at Arlington, 2023.
- Awarded *The Outstanding TA award* by The Department of Computer Science & Engineering at The University of Texas at Arlington, 2022.

- Awarded the best technical poster for *Detecting Misinformation about Zoom's Security and Privacy Threats* at NDSS conference, 2022.
- Awarded the best technical poster for *Detecting Misinformation about Zoom's Security and Privacy Threats* at SCRF conference held at The University of Texas at Arlington, 2022.
- Recipient of the Student Travel grant for USENIX Security 2021.
- Awarded the best poster at IEEE MetroCon Conference, 2019.
- Awarded *The Computer Science Scholarship* by The Department of Computer Science & Engineering at The University of Texas at Arlington, 2019.

PROFESSIONAL SERVICE

- Advisor for MedCS Lab at Northeastern University.
- Serving as a mentor for the IJCNLP-AAACL 2025 Student Research Workshop (SRW).
- PC member for AsiaCCS 2026, ACL 2025, EMNLP 2025, WWW 2025, ICWSM 2025, ICWSM 2026, CSCW 2025, CHI 2025, CSET 2023, and CSET 2024.
- Reviewer for Transactions on the Web, Transactions on Dependable and Secure Computing, Transactions on Technology and Society, Online Social Networks and Media, Computers in Human Behavior: Artificial Humans, Social Network Analysis and Mining, Humanities & Social Sciences Communications, Journal of Telecommunication Policy, Technology in Society, and Journal of Cybersecurity.
- Serving as the Program Co-Chair for The 18th Workshop on Cybersecurity Experimentation and Test Workshop (CSET 2025).
- Serving as a Khoury FIRST Mentor for First Generation Students at Khoury College of Computer Science, Northeastern University.
- Judge for Ethics Bowl 2024 held at Northeastern University.
- Serving on the team for Reddit for Researchers Beta Program.
- Lifelong member of the UTA Texas Gamma Chapter of Upsilon Pi Epsilon.
- Session Chair for The 17th Workshop on Cybersecurity Experimentation and Test Workshop (CSET 2024).
- Served as the Event Facilitator for OurCS@DFW & SCRF 2023 at The University of Texas at Arlington
- External reviewer for ACM CCS 2024, DIMVA 2024, ICWSM 2024, Web4Good 2024, Transactions on Information Forensics & Security, PoPETs/PETS 2023, Euro S&P 2022, USENIX Security 2020 & 2021, RAID 2020, E-Crimes 2020

TEACHING EXPERIENCE

- **Assistant Teaching Professor (Northeastern University):**
DS 3000: Foundations of Data Science - Fall 2025 - 266 Students
DS 3000: Foundations of Data Science - Spring 2025 - 89 Students
CY 2550: Foundations of Cybersecurity - Spring 2025 - 134 Students
DS 3000: Foundations of Data Science - Fall 2024 - 130 Students
- **Instructor (The University of Texas at Arlington):**
Information Security I (CSE 4380) - Spring 2024 - 35 Students
Information Security I (CSE 4380) - Fall 2023 - 20 Students
Information Security I (CSE 4380) - Spring 2023 - 36 Students
Information Security I (CSE 4380) - Fall 2021 - 27 Students
- **Graduate Teaching Assistant (The University of Texas at Arlington):**
Information Security I (CSE 4380) - Spring 2024 - 35 Students
Information Security I (CSE 4380) - Fall 2023 - 20 Students
Information Security I (CSE 4380) - Spring 2023 - 36 Students
Information Security I (CSE 4380/5380) - Fall 2022 - 36 Students
Programming Language Concepts (CSE 3302/5307) - Summer 2022 - 70 Students
Database Systems (CSE 5330) - Spring 2021 - 44 Students

Information Security I (CSE 4380) - Fall 2020 - 36 Students
Discrete Structures (CSE 2315) - Summer 2020 - 27 Students
Secure Programming (CSE 4382/5382) - Spring 2020 - 45 Students
Information Security I (CSE 4380) - Fall 2019 - 25 Students
Information Security I (CSE 4380/5380) - Spring 2019 - 38 Students
Information Security I (CSE 4380) - Fall 2018 - 39 Students

MENTORSHIP

Northeastern University

- Mentoring Anusha Gollarahalli Patel (Summer 2025 – Present) [Masters Student]
- Mentoring Huy Gia Han Vu (Summer 2025 – Present) [Bachelor Student]
- Mentoring Siddharth Karani (Summer 2025 – Present) [Bachelor Student]
- Mentoring Yipeng Wang (Spring 2025 – Present) [Bachelor Student]
- Mentoring Niraj Nadarasa (Fall 2024 – Present) [Bachelor Student]
- Mentored Aadarsh Gaikwad (Fall 2024 – Spring 2025) [Masters Student]
- Mentored Perna Chander, Sadasivam Natanakumar, & Nidhi Mankala (Fall 2024) [Masters Students]

The University of Texas at Arlington

- Mentored Javier Pacheco (Fall 2022 – Fall 2023) [Bachelor Student]
- Mentored Keren Valdez (Fall 2022 – Fall 2023) [Bachelor Student]
- Mentored Katia Lopez (Spring 2022) [Bachelor Student]
- Mentored Micheal Brady (Fall 2021) [Bachelor Student]
- Mentored Nihal Kumarswamy (Fall 2020 – Spring 2022) [Bachelor to Master Student]
- Mentored Shreyasi Kinhekar (Fall 2020 – Spring 2022) [Bachelor Student]