Mohit Singhal

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

RESEARCH INTERESTS

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

EDUCATION

The University of Texas at Arlington   Arlington, TX
Ph.D. in Computer Science   *Aug. 2019 – May 2024*
Advisor: Dr. Shirin Nilizadeh

The University of Texas at Arlington   Arlington, TX
M.S. in Computer Science   *Aug. 2017 – May 2019*
Advisor: David Levine

Jaypee University of Information Technology   Solan, India
B.Tech in Computer Science & Engineering   *Aug. 2013 – May 2017*

APPOINTMENTS

Affiliate Faculty at The NULab for Digital Humanities
& Computational Social Science   Fall 2025 – present
Northeastern University   *Boston, MA*
Research Active Assistant Teaching Professor   Spring 2025 – present
Northeastern University   *Boston, MA*
Affiliate Faculty at Northeastern Ethics Institute   Fall 2024 – present
Northeastern University   *Boston, MA*
Expert at The Center of Excellence in Cyber-Physical Systems   Fall 2024 – present
Jaypee University of Information Technology   *Solan, India*
Assistant Teaching Professor   Fall 2024 – present
Northeastern University   *Boston, MA*
Instructor   Fall 2021 & 2023, Spring 2023 & 2024
The University of Texas at Arlington   *Arlington, TX*
STEM Graduate Research Assistant   Spring 2022, & Summer 2023
The University of Texas at Arlington   *Arlington, TX*

STEM Graduate Teaching Assistant   Fall 2018 – Spring 2024
The University of Texas at Arlington   *Arlington, TX*
Summer Research Intern   Summer 2016
Indian Institute of Technology   *Roorkee, India*
Summer Research Intern   Summer 2015
The University of Nebraska at Omaha   *Omaha, NE*

FUNDING

- (2025) **Khoury Teaching Faculty Research Seed Grant Program,** Fear Mongering on TikTok Platforms: Characterizing Health and Nutrition Misinformation *(PI, $15,000),* Co-PI Divya Chaudhary (Northeastern University).

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. (2026, June). Unequal Privacy: Auditing Demographic Bias Vulnerabilities in Visual Protection Systems. To appear in Asia CCS 2026.

- PettyJohn, M. E., Cary, K. M., Dandekar, S., **Singhal, M.**, Nilizadeh, S., & Voth Schrag, R. (2026, January). Characteristics of technology-facilitated abuse and safety strategies discussed in the Reddit community, r/stalking. [Poster]. Society for Social Work and Research, Washington, D.C.

- 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

- 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 SCRFconference 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

- Steering committee member of ICIIP 2025.

- Advisor for MedCS Lab at Northeastern University.

- Serving as a mentor for the IJCNLP-AACL 2025 Student Research Workshop (SRW).

- PC member for IJCNLP-AACL 2025, 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, The International Review of Victimology, Journal of Cyberpsychology, Behavior, and Social Networking, Digital Threats: Research and Practice, 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 & 2025 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

- **Assistant Teaching Professor (Northeastern University):**
  CY 2550: Foundations of Cybersecurity - Spring 2026 - 62 Students
  DS 3000: Foundations of Data Science - Fall 2025 - 258 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 Hunjun Shin (Fall 2025 – Present) [Master Student]
- Mentoring Vita Khan (Fall 2025 – Present) [Master Student]
- Mentoring Amulya Dussa (Fall 2025 – Present) [Bachelor Student]
- 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 – Spring 2025) [Bachelor Student]
- Mentored Aadarsh Gaikwad (Fall 2024 – Spring 2025) [Masters Student]
- Mentored Prerna 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]