

# Mohit Singhal

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

## RESEARCH INTERESTS

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

## EDUCATION

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### 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

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### Assistant Teaching Professor

*Northeastern University*

Fall 2024 – present

*Boston, MA*

### Affiliate Faculty at Northeastern Ethics Institute

*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

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- *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

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- Kumarswamy, N.\*, **Singhal, M.\***, & Nilizadeh, S. (2024, October). Casual Insights into Parler's Content Moderation Shift: Effects on Toxicity and Factuality. [To appear in WWW 2025] (\* Joint Co-First Authors)
- **Singhal, M.**, Pacheco, J., Khorzooghi, S. M. S. M., Debi, T., Asudeh, A., Das, G., & Nilizadeh, S. (2025). Auditing Yelp's Business Ranking and Review Recommendation Through the Lens of Fairness. arXiv preprint arXiv:2308.02129. To appear in ICWSM 2025
- 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

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- 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

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- Khorzooghi, S. M. S. M., **Singhal, M.**, Asudeh, A., Das, G., & Nilizadeh, S. (2024, November). FairDeFace: Evaluating the Fairness and Adversarial Robustness of Face Obfuscation Methods. [Submitting to IEEE S&P 2025]
- 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

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- 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

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- 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.
- Reviewer for Transactions on the Web, Transactions on Dependable and Secure Computing, Transactions on Technology and Society, Online Social Networks and Media, Social Network Analysis and Mining and Journal of Cybersecurity
- Reviewer for WWW 2025, ICWSM 2025, CSCW 2025, and CHI 2025
- 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).
- Program committee member for The 16th & 17th Workshop on Cybersecurity Experimentation and Test Workshop (CSET 2023, 2024).
- Served as the Event Facilitator for OurCS@DFW & SCRF 2023 at The University of Texas at Arlington
- Reviewer for Humanities & Social Sciences Communications Journal
- 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

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- **Assitant Teaching Professor (Northeastern University):**  
DS 3000: Foundations of Data Science - Spring 2025 - 92 Students  
CY 2550: Foundations of Cybersecurity - Spring 2025 - 145 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

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### Northeastern University

- Mentoring Aadarsh Gaikwad (Fall 2024 – Present) [Masters Student]
- Mentoring Niraj Nadarasa (Fall 2024 – Present) [Bachelor Student]
- Mentoring 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]