

# NAMAN GUPTA

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Interests: I examine digital safety through interdisciplinary and decolonial lenses, focusing on technology-facilitated gender-based violence. My work identifies barriers faced by marginalized communities in seeking support, healing, and resilience. Additionally, I lead outreach efforts at the [Madison Tech Clinic \(MTC\)](#).

## EDUCATION

### University of Wisconsin-Madison, USA

Aug, 2021 - Present

PhD in Computer Sciences

Minor in Psychology, Gender & Women Studies, Law, and Education Policy

Advisor: [Rahul Chatterjee](#) | Expected Graduation Date: Dec'2026

Primary work with [MadS&P](#) | Affiliated with [Preventing Interpersonal Violence and Overcoming Trauma \(PIVOT\)](#) and [Sexual Violence Research Initiative \(SVRI\)](#)

### Indraprastha Institute of Information Technology, Delhi, India

Aug'2013 - Apr'2017

Bachelor of Technology in Computer Science & Engineering

## PUBLICATIONS

1. Sophie Stephenson, **Naman Gupta**, Akhil Polamarasetty, Kyle Huang, David Youssef, Kayleigh Cowan, and Rahul Chatterjee, "A Case Study on Legal Evidence of Technology-Facilitated Abuse in Wisconsin, USA" **Conditionally accepted to CSCW 2025**.
2. **Naman Gupta**, Kate Walsh, Sanchari Das, and Rahul Chatterjee, "[Barriers and Challenges Faced by Survivors of Technology-Facilitated Abuse in Seeking Social Support](#)". **USENIX Security 2024**.
3. **Naman Gupta**, Sanchari Das, Kate Walsh, and Rahul Chatterjee, "[A Critical Analysis of the Prevalence of Technology-facilitated Abuse in US College Students](#)". Late Breaking Work at **CHI 2024**.
4. Rose Ceccio\*, **Naman Gupta\***, Majed Almansoori\*, and Rahul Chatterjee, "[Analyzing Patterns and Behavior of Users When Detecting and Preventing Tech-enabled Stalking](#)". Workshop on Usable Security and Privacy (USEC) **NDSS 2023**.
5. Mohannad Alhanahnah, Philipp Schubert, **Naman Gupta**, Thomas Reys, Somesh Jha, and Eric Bodden, "[slash: A Technique for Static Configuration-Logic Identification](#)". **arXiv, 2022**.
6. Zhe Tao, Aseem Rastogi, **Naman Gupta**, Kapil Vaswani, and Aditya V. Thakur, "[DICE\\*: A Formally Verified Implementation of DICE Measured Boot](#)". **USENIX Security 2021**.
7. **Naman Gupta\***, Srishti Sengupta\* and Vinayak Naik. "[A firewall for internet of things.](#)". **COMSNETS, 2017**. *Undergraduate Thesis*.
8. **Naman Gupta\***, Anmol Singh\*, and [Sachit Butail](#). "[The effect of instructional priming on postural responses to virtual crowds.](#)". Workshop on Virtual Humans and Crowds in Immersive Environments (VHCIE) **IEEEVR, 2017**.  
\*Equal contribution.

## FELLOWSHIPS AND GRANTS

- **Pre-doctoral Fellowship:** Microsoft Research 2020-21
- **Research Grant:** Office of Victim and Crime (OVC), Department of Justice 2022
- **Travel Grant:** Network and Distributed System Security (NDSS) Symposium 2023
- **Travel Grant:** USENIX Security 2024
- **Travel Grant:** EuroS&P (Virtual) 2021
- **Best runners-up talk at CS Research Symposium, UW-Madison** 2023

## PROFESSIONAL EXPERIENCE

**Pre-doctoral Research Fellow at Microsoft Research (MSR), India | UK**  
[Confidential Computing Group](#) and [Technology for Emerging Markets Group](#)

Jan'2020 - Jul'2021

- Developed a **toolchain** to evaluate the first-ever formally verified secure boot firmware on commodity hardware.
- Conducted security evaluations on Trusted Execution Environments (TEE) for GPUs, uncovering concurrency bugs.
- Designed a COVID-19 health certificate issuance system using **Microsoft CCF**.
- Improved Blendnet, an offline hyper-local video streaming solution for financial inclusion, optimizing WiFi throughput and latency.

#### DevSecOps Engineer at Grab, India | Singapore

Aug'2018 - Dec'2019

- Led defensive security initiatives, enforcing hardening policies on payment infrastructure.
- Implemented application security policies on all company-wide Kubernetes clusters.
- Designed a secret-sharing policy for third-party vendor exchanges and vulnerability patching workflows.
- Organized Grab's Security Awareness CTF, developing cryptography challenges.

#### Site Reliability Engineer at Media.net, India

Jun'2017 - Aug'2018

- Migrated a latency-sensitive Java application to a stateless microservice architecture, improving scalability and reducing costs by 80%.
- Designed a blue-green auto-scaling pipeline for a real-time ad-serving platform, increasing performance by 35% with 50% weekly traffic growth.
- Created an automated ticketing system to track infrastructure vulnerabilities and accountability.
- Conducted security training for 30+ new hires on Git, virtualization, Python, and systems security.

#### SERVICE

- **Associate Chair (Program Committee)** CSCW'25
- **External Reviewer** EuroUSEC'24, CHI LBW'24, CSCW'24 🏆, Violence Against Women (VAW)
- **Poster Committee** SOUPS'24 🏆 & IEEE S&P'24 (Oakland) 🏆
- **Artifact Evaluation** NDSS'25 🏆
- **Organizer** for Queer in Security & Privacy NDSS 2023
- **Organizer** HCI Reading Group at UW-Madison 2024-2025
- **Organizer** Decolonial Collective at UW-Madison 2025
- 🏆 Special recognition for an outstanding review.

#### TALKS AND PANELS

- **Panelist:** Reclaim Our Love Conference Mar, 2025
- **Guest Lecture:** PSYCH311: Sexual Violence Feb, 2025
- **Invited Talk:** Psychi Honor Society Dec, 2024
- **Invited Talk:** WI Dept of Justice, MMIW Taskforce Aug, 2024
- **Invited Poster:** UW-Madison: Research day at the UW State Capitol Apr, 2024
- **Organizer and Panelist** Navigating PhD coursework and stressors at UW-Madison Nov, 2024

#### TEACHING AND ADVISING

- **Teaching Assistant (UW-Madison)** Capstone Projects (150+) x2, AI (150+) & Programming-III (800+)
- **Mentor (UW-Madison)** Mentoring 5 incoming CS International Graduate Students
- **Teaching Assistant (IIIT-Delhi & NPTEL)** Mobile Computing (200+)
- **Student-Instructor** DSA and System Programming for incoming master's students (50+)
- **Lead, Mentor Program** Paired 200 freshmen with senior students for independent projects
- **Administrator** Software Development Club (conducted several hackathons)
- **Talks (sophomore level, 200+)** Virtualization, Security, Git, node.js, MVC frameworks
- **Mentor** Rails Girls Summer of Code
- **Organising Team** 1st Blockchain Summit in India
- **Judge** Google's Code to Learn Contest 2016