

# 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

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**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: December 2026

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

Aug 2013 - April 2017

Bachelor of Technology in Computer Science & Engineering

## PUBLICATIONS

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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 Reps, Somesh Jha, and Eric Bodden, "[redacted] Automatic boundary detection in programs". **Under submission at ICSE 2023**.
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.

## EXPERIENCE

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**UW Madison, USA**

August 2021 - Present

*PhD Student in [MadS&P](#), Advised by [Rahul Chatterjee](#)*

- Conduct research on socio-technical interventions for Intimate Partner Violence survivors, focusing on digital safety and resilience.

**Microsoft Research (MSR), India**

January 2020 - July 2021

*Research Fellow, Confidential Computing Group, Advised by [Kapil Vaswani](#)*

- Implemented a [toolchain](#) that runs on commodity hardware to evaluate the formally verified secure boot firmware based on DICE\*.

- Performed security evaluation and testing on a Trusted Execution Environment (TEE) architecture on GPUs to find concurrency bugs in the TEE API.
- Implemented an architecture that supports issuance of COVID-19 health certificates & travel permits using [Microsoft CCF](#).

### *Technology for Emerging Markets Group (Project Blendnet)*

- Blendnet is an offline hyper-local video streaming solution to improve financial inclusion for the low-income population of India.
- Designed to a toolchain for provisioning and configuring the Azure infrastructure.
- Performed preliminary investigation in optimizing the WiFi network for throughput and latency.

### SERVICE

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- **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
- 🏆 Special recognition for an outstanding review.

### TALKS AND PANELS

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- **Panelist:** Reclaim Our Love Conference March 19, 2025
- **Guest Lecture:** PSYCH311: Sexual Violence February 25, 2025
- **Invited Talk:** Psychi Honor Society
- **Invited Talk:** WI Dept of Justice, MMIW Taskforce

### TEACHING AND ADVISING

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- **Best runners-up talk at CS Research Symposium** UW-Madison
- **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