

# NAMAN GUPTA

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Overview: I examine digital safety through interdisciplinary and decolonial lenses, focusing on technology-facilitated gender-based violence. My work identifies socio-technical 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

2021 - Present

PhD in Computer Science

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

Advisor: [Rahul Chatterjee](#) | Expected Graduation Date: Aug/Dec'26

Director of Community Outreach at [Madison Tech Clinic \(MTC\)](#)

Primary work with [MadS&P](#) | Affiliated with [PIVOT](#), [NATIVE](#), [SVRI](#), [ROSA](#), and Decolonial Collective.

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

2013 - 2017

Bachelor of Technology in Computer Science & Engineering

## FELLOWSHIPS AND GRANTS

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- **Morgridge Fellow for Community-Engaged Scholarship (CES)** 2025
- **Research Fellow**: Microsoft Research 2020
- **Research Grant Won with PI**: Office of Victim and Crime (OVC), Department of Justice (DOJ) 2022
- **Co-authored Research Grants with PI**: Office of Victim and Crime (OVC) (3), National Institute of Justice (NIJ) (1) 2022,2024,2025
- **Travel Grant** NDSS'23, USENIX Security'24, HCIC'23, EuroS&P'21, CCS'21
- **Best runners-up talk at CS Research Symposium, UW-Madison** 2023

## PUBLICATIONS

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\*denotes equal contribution.

1. **Naman Gupta**, Sophie Stephenson, Chung Chi Yeung, Weiteng Wu, Jeneile Luebke, Kate Walsh, Rahul Chatterjee, ““Lighting The Way For Those Not Here”: How Technology Researchers Can Help Fight the Missing and Murdered Indigenous Relatives (MMIR) Crisis”. **Under review at CHI 2026**.
2. Sophie Stephenson, **Naman Gupta**, Akhil Polamarasetty, Kyle Huang, David Youssef, Kayleigh Cowan, Rahul Chatterjee, “Trauma-Informed Digital Evidence Collection: A Design Inquiry into Evidence Practices for Technology-Facilitated Abuse in Intimate Partner Violence”. **Under review at CHI 2026**.
3. Julia Nonnenkamp, **Naman Gupta**, Abhimanyu Gupta, Rahul Chatterjee, “Hidden in Plain Bytes: Investigating Interpersonal Account Compromise with Data Exports”. **CCS 2025**.
4. Sophie Stephenson, **Naman Gupta**, Akhil Polamarasetty, Kyle Huang, David Youssef, Kayleigh Cowan, Rahul Chatterjee, “Legal Evidence of Technology-Facilitated Abuse in Wisconsin: Surfacing Barriers Within and Beyond the Courtroom”. **CSCW 2025**.
5. **Naman Gupta** and Rahul Chatterjee, “Decolonizing Digital Safety Research: Safety for Who? Safety from What?”. Workshop **CHI 2024**. “What is Safety?": Building Bridges Across Approaches to Digital Risks and Harms
6. **Naman Gupta**, Kate Walsh, Sanchari Das, Rahul Chatterjee, “[Barriers and Challenges Faced by Survivors of Technology-Facilitated Abuse in Seeking Social Support](#)”. **USENIX Security 2024**.
7. **Naman Gupta**, Sanchari Das, Kate Walsh, Rahul Chatterjee, “[A Critical Analysis of the Prevalence of Technology-facilitated Abuse in US College Students](#)”. Late Breaking Work at **CHI 2024**.
8. Rose Ceccio\*, **Naman Gupta**\*, Majed Almansoori\*, Rahul Chatterjee, “[Analyzing Patterns and Behavior of Users When Detecting and Preventing Tech-enabled Stalking](#)”. Workshop on Usable Security and Privacy (USEC) **NDSS 2023**.

9. Mohannad Alhanahnah, Philipp Schubert, **Naman Gupta**, Thomas Reps, Somesh Jha, and Eric Bodden, “slash: A Technique for Static Configuration-Logic Identification”. **arXiv 2022**.
10. Zhe Tao, Aseem Rastogi, **Naman Gupta**, Kapil Vaswani, and Aditya V. Thakur, “DICE\*: A Formally Verified Implementation of DICE Measured Boot”. **USENIX Security 2021**.
11. **Naman Gupta\***, Srishti Sengupta\* and Vinayak Naik. “A firewall for internet of things.”. **COMSNETS 2017. Undergraduate Thesis**.
12. **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**.

## SERVICE

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(X) denotes the number of papers, posters, and artifacts reviewed, totaling 14 papers, 5 posters, and 1 artifact.

🥇 denotes special recognition received for an outstanding review.

- **Session Chair (Program Committee)** CSCW’25
- **Associate Chair (Program Committee)** CSCW’25 (8) 🥇
- **External Reviewer** CHI’26 (2), CSCW’25 (8), EuroUSEC’24 (1), CHI-LBW’24 (1), CSCW’24 (1) 🥇, Journal of Violence Against Women (VAW) 2025 (1)
- **Poster Committee** IEEE S&P’24 (4) 🥇 & SOUPS’24 (1) 🥇
- **Artifact Evaluation** NDSS’25 (1) 🥇
- **Organizer and Community Relations Lead** with the Decolonial Collective Jan’25-ongoing
- **Discussion Organizer** for Technology-facilitated Colonial Violence USENIX Security’24
- **Organizer** HCI Reading Group at UW-Madison 2024
- **Organizer** for Queer in Security & Privacy NDSS’23

## INVITED TALKS AND PANELS

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- **Trained** Gender-based Violence advocates for National Indigenous Women’s Resource Center (NIWRC), National Network of Ending Domestic Violence (NNEDV), Lac Courte Oreilles Band of Lake Superior Chippewa Indians, Family Peace Center, and ARC Community Services Dec’24-ongoing
- **Panelist**: Technology-facilitated Abuse Sept’25
- **Panelist**: The Network’s “Reclaim Our Love Conference” Mar’25
- **Guest Lecture**: PSYCH311: Sexual Violence Feb’25
- **Invited Talk**: Psychi Honor Society Dec’24
- **Invited Talk**: WI Dept of Justice, MMIW Taskforce Aug’24
- **Invited Poster**: UW-Madison: Research day at the UW State Capitol Apr’24
- **Organizer and Panelist** Navigating PhD coursework and stressors at UW-Madison Nov’24

## TEACHING AND ADVISING

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- **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’0+)** 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

## PROFESSIONAL EXPERIENCE

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**Research Fellow at Microsoft Research (MSR), India**

2020 - 2021

Technology for Empowerment (formerly Technology for Emerging Markets) and Confidential Computing Group

- Automated cloud infrastructure and network performance for Project Blendnet set-top-box, an offline hyper-local video streaming platform for financial inclusion in low-income neighborhoods, optimizing.
- Designed a COVID-19 health certificate issuance system using [Microsoft Confidential Computing Framework](#).
- 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.

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

2018 - 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**

2017 - 2018

- Migrated a latency-sensitive Java application to a stateless microservice architecture, improving scalability 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.