

Nandini Banerjee

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Address: Notre Dame, IN

Education

PhD in Computer Science and Engineering

August 2022 - Present

College of Engineering, University of Notre Dame, Notre Dame, IN

Advisor: Assistant Professor Diego Gómez-Zarà

Bachelor of Technology in Computer Science and Engineering

July 2015 - May 2019

Faculty of Engineering and Technology, SRM Institute of Science and Technology, Kattankulathur, India

Research Experience

Graduate Research Assistant

August 2022 - Present

Assistant Professor Diego Gómez-Zarà

Computer Science and Engineering, University of Notre Dame, Notre Dame, IN

- Pursuing research at the intersection of machine learning, networks, and science of science
- Utilizing machine learning to build a model to detect team disruption in real-time

Undergraduate Research Intern

December 2018 - July 2019

Professor Biplab Kumar Sikdar

Computer Science and Technology, Indian Institute of Engineering Science and Technology, Shibpur, India

- Worked on a project titled "Plaintext Extraction in AES Algorithm Exploiting Secret Key Using Hardware Trojan"
- Implemented the project idea in Python

December 2017

Professor Biplab Kumar Sikdar

Computer Science and Technology, Indian Institute of Engineering Science and Technology, Shibpur, India

- Received training on microprocessor-based system design

Teaching Experience

Graduate Teaching Assistant

Spring 2023

CSE-30341 Operating System Principles

Fall 2022

CSE-10001 Principles of Computing

Professional Experience

Systems Engineer

July 2019 - September 2021

Tata Consultancy Services, Hyderabad, India

- Worked as a Java Full Stack Developer in the BFSI (banking, financial services and insurance) sector
- Upgraded the interface used for e-commerce merchant payments
- Integrated a chat assistant into the web application
- Incorporated a third-party payment processing software into the application

Publications

- Das, N., Sen, R., Ray, D., **Banerjee, N.**, Halder, J., Tenhunen, H., Sikdar, B. K. “A trojan framework in AES core to evade state-of-the-art HT detection schemes”, *Microelectronics Journal*, Volume 111, **2021**, 105023, 0026-2692
- Sandhia, G.K., **Banerjee, N.** “Survey on Hardware Detection Techniques”, *SRM Institute of Science and Technology International Conference on Internet of Things*, **2019**

Presentations

- Plenary talk on “All-Female Teams Produce More Disruptive Work: Evidence from Scientific Papers” at the International Conference on Computational Social Science, **2024**
- Contributed talk on “All-Female Teams Produce More Disruptive Work: Evidence from Scientific Papers” at the International Conference on the Science of Science & Innovation, **2024**
- Oral presentation on “All-Female Teams Produce More Disruptive Work: Evidence from Scientific Papers” at the Networks in Science of Science Workshop at NetSci, **2024**

Awards

- Accepted into the Lucy Graduate Scholars Cohort at the Lucy Family Institute for Data & Society, University of Notre Dame, **2024-2026**
 - Digital And Design Editor of the *Journal of Data Science and Societal Endeavors*
 - Ambassador for the Lucy graduate student research community
 - Involved in creating community building initiatives for students at the Lucy Institute and the greater community at the University of Notre Dame
- Received offer for the Kummer Innovation and Entrepreneurship (I&E) Doctoral Fellowship in **2022**

Grants

- Received \$750 from the Zahm Professional Development Fund for attendance of International Conference on Computational Social Science, 2024
- Received \$400 from the University of Notre Dame Graduate Student Government Conference Presentation Grant for attendance of International Conference on Computational Social Science, 2024
- Received \$200 from the Downes Memorial Fund for attendance of International Conference on Computational Social Science, 2023

Conferences and Events

- Organizational Communication Mini Conference, **2024**
- Summer Institute in Computational Social Science, **Chicago 2024**
- International Conference on Computational Social Science, **2024**
- International Conference on the Science of Science and Innovation, **2024**
- International Conference on the Science of Science and Innovation, **2023**