Nandini Banerjee

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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-Zará

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-Zará
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 and Workshops

- Plenary talk on "All-Female Teams Produce More Disruptive Work: Evidence from Scientific Papers" at the International Conference on Computational Social Science (**IC2S2**), **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 (**ICSSI**), **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**
- Oral presentation on "All-Female Teams Produce More Disruptive Work" at the COSE Research Horizons Symposium, **2023**

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**