

PAYEL BHATTACHARJEE

Ph.D. Candidate in the Department of Electrical and Computer Engineering
University of Arizona

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✉ Tucson, Arizona, USA

EDUCATION

Ph.D. in Electrical and Computer Engineering

The University of Arizona

📅 August, 2022 – present

📍 Tucson, Arizona, USA

G.P.A: 4.00 (On a scale of 4.0)

Bachelor of Technology in Electronics & Telecommunication Engineering

Kalinga Institute of Industrial Technology (KIIT), Bhubaneswar, Odisha, India

📅 July 2017 – May, 2021

📍 Bhubaneswar, Odisha, India

C.G.P.A: 9.43 (On a scale of 10)

WORK EXPERIENCE

Graduate Research Assistant

University of Arizona

📅 August, 2022 – present

📍 Tucson, USA

Ph.D. Advisor: Dr. Ravi Tandon

Graduate Teaching Assistant

University of Arizona

📅 August, 2022 – May, 2023

📍 Tucson, USA

GTA for the course ECE372

Associate Software Engineer

Bosch Global Software Technologies (BGSW)

📅 July, 2021 – June, 2022

📍 Coimbatore, Tamilnadu, India

Project Intern

Robert Bosch Engineering and Business Solutions PVT LTD. (RBEI)

📅 March, 2021 – June, 2021

📍 Coimbatore, Tamilnadu, India

SKILLS

- Trustworthy Machine Learning
- Differential Privacy
- Causal Graph Discovery
- Causal Inference
- Medical Image Processing
- Programming Languages: C,C++, Python
- Constructive report writing
- Internet of Things (IoT)

TRAININGS

Winter Training

Topic : Embedded and Robotics Basics

📅 January, 2019

📍 R.C.P.L India

Summer Training

Topic : Embedded and IoT Training with hands on Experience on Cypress Semiconductor Board, Embed and Microchip board with Introduction to LoRa Communication

📅 May, 2019 - June, 2019

📍 Eduvance, India

AWARDS

People's Choice Award

Electrical and Computer Engineering 2024 Graduate Poster Symposium

📅 March, 2024

📍 Tucson, Arizona, USA

KIIT Merit Scholarship

KIIT University

📅 December, 2017

📍 Bhubaneswar, Odisha, India

RELEVANT GRADUATE COURSES

- Probability and Random Processes for Engineering Applications
- Introduction to Statistical Machine Learning
- Engineering Applications of Machine Learning and Data Analytics
- Information Theory
- Principles of Machine Learning
- Digital Signal Processing
- Digital Communications
- Principles of Computer Networking

EXTRA CURRICULAR ACTIVITY

Officer in the University of Arizona Department of Electrical and Computer Engineering Graduate Student Association (UofA ECE GSA).

PUBLICATIONS

Conference Papers

- P. Bhattacharjee, R. Tandon, *Adaptive Privacy for Differentially Private Causal Graph Discovery*, IEEE International Workshop on Machine Learning for Signal Processing (IEEE MLSP) 2024. **(Accepted, To be published)**
- P. Bhattacharjee, S.P Kar, N.K Rout, *Sleep and Sedentary Behavior Analysis from Physiological Signals with Machine Learning*, , IEEE Xplore Digital Library, April 2020.

Journal Papers

- P. Bhattacharjee, R. Tandon, CURATE: Scaling up differentially private causal graph discovery, Submitted to MDPI Entropy Journal, 2024 **(Awaiting review)**
- P. Bhattacharjee, R. Garain, A. Basak, U.P. Singh, *Numerical Modeling and Performance Evaluation of SnS Based Heterojunction Solar Cell with p+ SnS BSF Layer*, , Optical and Quantum Electronics, Volume 54, article number 867, (2022), October 2022.