Uddalok Sarkar

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EDUCATION

• Indian Statistical Institute

2022 -

Ph.D., Computer Science

Advisors: Prof. Sourav Chakraborty, Prof. Kuldeep Meel

Indian Statistical Institute

2020 - 2022

M.Tech., Computer Science, Percentile: 88.24%

Jadavpur University

2015 - 2019

B.E., Electrical Engineering, CGPA: 8.72/10

RESEARCH INTERESTS Property Testing Verification

Distribution Testing

THESIS & PUBLICATIONS

Conference

- 1. Testing Self Reducible Samplers Joint work with with Rishiraj Bhattacharyya, Sourav Chakraborty, Yash Pote, Sayantan Sen. (Accepted in Annual AAAI Conference on Artificial Intelligence (AAAI) (2024))
- 2. *Testing of Horn Samplers* Joint work with Ansuman Banerjee, Shayak Chakraborty, Sourav Chakraborty, Kuldeep S. Meel, Sayantan Sen. (*Accepted in Artificial Intelligence and Statistics (AISTATS) (2023)*)
- Thesis
 - 1. Masters Thesis: On Testing of Horn Samplers, Indian Statistical Institute, 2022.

AWARDS & HONOURS

- Received Google PhD Fellowship Award (2023).
- Received *Gold Medal for outstanding performance in M.Tech (CS) Programme (2020-22)* from Indian Statistical Institute, Kolkata.

TEACHING EXPERIENCE

Indian Statistical Institute

Probability and Stochastic Processes

2023 2022-23

Computing Laboratory (Teaching assistant)

2022

Specification and Verification of Programs (Teaching assistant)

ACM Summer School

Algorithms for Data Science

2023

REVIEWER EXPERIENCE TECHNICAL

■ Conference: CAV(2023)

Languages & frameworks

SKILLS

Python, Tensorflow, Pytorch, Qiskit, CirQ, TensorFlow Quantum (TFQ)

C, C++ | NuSMV | MATLAB, Simulink

REFERENCES

Prof. Sourav Chakraborty

Associate Professor, Advanced Computing and Microelectronics Unit (ACMU), Indian Statistical Institute mail id: sourav@isical.ac.in

Prof. Kuldeep Meel

Associate Professor, Department of Computer Science, University of Toronto

mail id: meel@cs.toronto.edu **Prof. Ansuman Banerjee**

Associate Professor, Advanced Computing and Microelectronics Unit (ACMU), Indian Statistical Institute mail id: ansuman@isical.ac.in

PAST RESEARCH EXPERIENCE

Digital Audio Processing Lab Indian Institute of Technology Bombay, India

- Research Intern (May Jul 2018)
 - Project: Structural Segmentation of Hindustani Dhrupad Vocal Concerts
 - Supervisor: Prof. Preeti Rao, Electrical Engineering Department, IIT Bombay
 - Focus: Music Information Retrieval, Audio Signal Processing.

C.V. Raman School of Physics and Music Jadavpur University, Kolkata, India

- Undergraduate Research Student
 - Supervisor: Dr. Dipak Ghosh, Professor Emeritus, Jadavpur University
 - Focus: Cognitive Neuroscience, Speech Signal Analysis, Music Information Retrieval.

INTERESTS Music

I am currently studying Jazz and Progressive Rock music. I am also interested in Folk music. I have recently directed music of a folk short film Pathshala - The Inception of Pursuit. **Photography, Filming**.