# **Uddalok Sarkar**

Indian Statistical Institute, Kolkata

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#### **EDUCATION**

#### Indian Statistical Institute

2022 -

Ph.D., Computer Science

Advisor: Prof. Sourav Chakraborty

Advanced Computing and Microelectronics Unit

Indian Statistical Institute

2020 - 2022

M.Tech., Computer Science, Percentile: 88.8%

Jadavpur University

2015 - 2019

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

RESEARCH INTERESTS Property Testing Verification

**Distribution Testing** 

## THESIS & PUBLICATIONS

#### Thesis

1. Masters Thesis: On Testing of Horn Samplers, Indian Statistical Institute, 2022.

#### Conference

1. *Testing of Horn Samplers* - Joint work with Ansuman Banerjee, Shayak Chakraborty, Sourav Chakraborty, Kuldeep S. Meel, <u>Uddalok Sarkar</u>, Sayantan Sen. (*Accepted for Oral Presentation in Artificial Intelligence and Statistics (AISTATS)* (2023))

# AWARDS & HONOURS

 Received ISIAA - Rashi Ray Memorial Medal for outstanding performance in M.Tech (CS) Programme (2020-22) from Indian Statistical Institute, Kolkata.

### RESEARCH EXPERIENCE

## Advanced Computing and Microelectronics Unit Indian Statistical Institute, Kolkata

- Master's Thesis
  - Supervisor: Prof. Sourav Chakraborty, Indian Statistical Institute, Kolkata
  - Focus: Property Testing.

## **TEACHING**

### **Indian Statistical Institute**

**EXPERIENCE** 

Computing Laboratory (Teaching assistant)

2022

Specification and Verification of Programs (Teaching assistant)

2022

#### **TECHNICAL**

SKILLS

#### Languages & frameworks

Python, Tensorflow, Pytorch, Qiskit, CirQ, TensorFlow Quantum (TFQ) C, C++ | NuSMV | MATLAB, Simulink

# 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.

#### REFERENCES

#### **Prof. Sourav Chakraborty**

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

## **Prof.** Ansuman Banerjee

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

## Prof. Arijit Ghosh

Assistant Professor, Advanced Computing and Microelectronics Unit (ACMU), Indian Statistical Institute mail id: arijitiitkgpster@gmail.com

## 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.