

Supriya Adhikary

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RESEARCH INTEREST

I am currently pursuing my Ph.D. from IIT, Kanpur. I am particularly keen to research in the area of privacy-preserving computations on encrypted data, such as functional encryption and homomorphic encryption. I am not only interested in the theoretical aspects, but also I am inquisitive towards fast and efficient implementation methods and the applications to the real-world problems. Other than that, I am also interested in working towards lattice-based cryptography and code-based cryptography.

EDUCATION

PhD student Computer science and engineering, <i>Indian Institute of Technology, Kanpur</i>	2022–Present Kanpur, India
M.Tech in Cryptology and Security R.C. Bose centre for Cryptology and Security, <i>Indian Statistical Institute</i>	2019–2021 Kolkata, India
M.Sc in Pure Mathematics Ballygunge Science College, <i>University of Calcutta</i>	2017–2019 Kolkata, India
B.Sc in Mathematics Uluberia College, <i>University of Calcutta</i>	2014–2017 Howrah, India
Higher Secondary Education Bangalpur U.C. high School, <i>WBCHSE</i>	2014 Howrah, India
Secondary Education Bangalpur U.C. high School, <i>WBBSE</i> – Obtained 84.85%	2012 Howrah, India

PUBLICATIONS

1. **S. Adhikary**, A. Karmakar, “A fast RLWE-based IPFE library and its application to privacy-preserving biometric authentication”, *IEEE Transactions on Emerging Topics in Computing*, 2023, DOI: 10.1109/TETC.2023.3268003

TEACHING

- **Class tutor** at Indian Institute of Technology, Kanpur
Fundamentals of computing - I & II (ESC111A & ESC112A) Winter 2022
- **Class tutor** at Indian Institute of Technology, Kanpur
Fundamentals of computing - I & II (ESC111M & ESC112M) Summer 2023

ACHIEVEMENTS

- Qualified GATE (CS) in 2021
- Qualified CSIR-NET (LS) in Mathematical Sciences (December, 2018)