

# Supriya Adhikary

Email: [adhikarys@cse.iitk.ac.in](mailto:adhikarys@cse.iitk.ac.in), [adhikary.sup@gmail.com](mailto:adhikary.sup@gmail.com)

GitHub: [github.com/s-adhikary](https://github.com/s-adhikary)

Contact: (+91)8348375299

Website: [s-adhikary.github.io](https://s-adhikary.github.io)

## 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 applications to real-world problems. I am also interested in working towards lattice-based cryptography and code-based cryptography.

## EDUCATION

---

<b>Research Fellow (PMRF)</b> <i>Dept. of Computer Science and Engineering, Indian Institute of Technology Kanpur</i>	<i>Pursuing</i> Kanpur, India
<b>M.Tech in Cryptology and Security</b> <i>Indian Statistical Institute Kolkata</i>	<i>2019–2021</i> Kolkata, India
<b>M.Sc in Pure Mathematics</b> <i>Ballygunge Science College, University of Calcutta</i>	<i>2017–2019</i> Kolkata, India
<b>B.Sc in Mathematics</b> <i>Uluberia College, University of Calcutta</i>	<i>2014–2017</i> 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)** Nov '22 - Feb '23
- **Class tutor** at Indian Institute of Technology, Kanpur  
**Fundamentals of computing - I & II (ESC111M & ESC112M)** Mar '23 - Jul '23
- **Teaching Assistant** at Indian Institute of Technology, Kanpur  
**Computer Systems Security (CS628)** Aug '23 - Nov '23
- **Guest Lecturer** at Uttar Pradesh State Institute of Forensic Sciences (UPSIFS), Lucknow  
**Cryptology** Sept '23 - Nov '23

## ACHIEVEMENTS

---

- Prime Minister Research Fellow (Aug '23 onwards)
- Qualified GATE (CS) in 2021
- Qualified CSIR-NET (LS) in Mathematical Sciences (December, 2018)