

Priyanka Mondal

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Education

- 2017-present **PhD, Computer Science**, *University of California, Santa Cruz*.
GPA: 4.0/4.0
- 2013–2015 **Master of Engineering, Computer Science**, *Indian Institute of Science, India*.
GPA: 6.7/8.0
- 2009–2013 **Bachelor of Engineering, Computer Science**, *Bengal Engineering and Science University, India*.
First-class with Honors

Research Interest and Experience

- Searchable Encryption
- Information Flow Control
- Programming Languages
- Distributed Systems

Supervisor Dr. Ioannis Demertzis and Dr. Owen Arden

Publications

1. **Applying consensus and replication securely with FLAQR**
P. Mondal, M. Algehed and O. Arden
Computer Security Foundation, 2022 **Distinguished Paper Award**

Ongoing Research Projects

- Locality-aware dynamic searchable encryption that ensures forward and backward privacy
- System-wide security for dynamic searchable encryption

ME Thesis

Title *Atomicity Checking with Blame Assignment for Android Applications*.

Supervisor Dr. Aditya Kanade, Software Engineering and Analysis Lab, IISc

Other Notable Course Projects

- Verifying Language Specifications of STLC with Exceptions in Coq : CMPS210B - Advanced Programming Languages, UCSC
- Inter and Intra Procedural Program Slicing : CMPS210A - Programming Languages, UCSC
- Distributed Secure Message Passing Protocol using Cryptographic Mechanisms : CSE253 - Distributed Systems Security, IISc
- An efficient Greedy Location-Aided Routing (GLAR) Protocol : B.E. Project

Work Experience

- **Citrix R&D Pvt. Ltd, Bangalore.**
Networking and Cloud team, Software Engineer II, 2015-2017
- **Nomura Research Institute, Kolkata**
Enterprise Data Warehouse team, Summer intern, May-July,2012

Talks & Posters

- Lightening talk and poster on "A Language for Secure Replicated Computation"- CSF 2019
- Poster on "Vote Them Out: Detecting and Eliminating Byzantine Peers" - SoCC 2019

Computer skills

- C, C++, Java, Haskell, Coq, javascript, HTML, CSS

Teaching Experience

- Introduction to Algorithms, CMPS101 - UC Santa Cruz, Winter 2021
- Advanced Programming, CMPS109 - UC Santa Cruz, Summer 2019
- Comparative Languages, CMPS112 - UC Santa Cruz, Spring 2018
- Compiler Design, CMPS104 - UC Santa Cruz, Fall 2017

Grants and Scholarships

- Symposium on Cloud Computing 2019 Student Scholarship
- Computer Security Foundation 2019 Travel Grant
- PLDI 2019 Travel Grant
- Programming Languages Mentoring Workshop at POPL 2019 Travel Grant
- Oregon Programming Languages Summer School 2018 Travel Grant
- UC Santa Cruz Regents Fellowship, Winter 2018
- All India Council for Technical Education Scholarship, 2013-2015
- All India Higer Secondary Education Council Scholarship, 2010-2013

References

1. [Professor. Owen Arden](#)
University of California, Santa Cruz
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