

Soundarya Ramesh

CONTACT

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Web : <https://soundaryaramesh.github.io>

EDUCATION

National University of Singapore

PhD Student, Department of Computer Science

Area : Cyber-physical Systems Security

Advisor : Jun Han

Aug 2018 – Present

Current GPA : 5/5

National Institute of Technology Karnataka, India

Bachelor of Technology in Information Technology

Jul 2014 – May 2018

GPA : 9/10

CONFERENCES AND WORKSHOPS

Soundarya Ramesh, Harini Ramprasad, Jun Han. Listen to Your Key: Towards Acoustics-based Physical Key Inference. *To appear in the Proceedings of the 21st Annual International Workshop on Mobile Computing Systems and Applications (HotMobile '20)*.

Soundarya Ramesh, Thomas Pathier, Jun Han. SoundUAV: Towards Delivery Drone Authentication via Acoustic Noise Fingerprinting. *In the Proceedings of the 5th ACM Workshop on Micro Aerial Vehicle Networks, Systems, and Applications (DroNet '19)*.

Shen Shiqi, Shweta Shinde, Soundarya Ramesh, Abhik Roychoudhury and Prateek Saxena. Neuro-Symbolic Execution: Augmenting Symbolic Execution with Neural Constraints. *In the Proceedings of the 26th Annual Network and Distributed System Security Symposium (NDSS '19)*.

POSTERS

Soundarya Ramesh, Thomas Pathier, Jun Han. SoundUAV: Fingerprinting Acoustic Emanations for Delivery Drone Authentication. *In the Proceedings of 17th Annual International Conference on Mobile Systems, Applications, and Services (MobiSys '19)*.

RESEARCH EXPERIENCE

National University of Singapore

May – Dec 2017

Research Intern in System Security Lab

Supervisor : Prateek Saxena

Project : Domain-agnostic Constraint Learning using Neural Networks

Indian Institute of Science

May – Jun 2016

Research Intern in Cryptography and Information Security Lab

Supervisor : Arpita Patra

Project : Developing efficient protocol for Graph Consensus Problem in Directed Graphs

HONORS AND AWARDS

- MobiSys'19 Best Poster Runner-Up Award

Jun 2019

- Graduate Research Fellowship, National University of Singapore

Aug 2018 – Present

- Indian Academy of Science Fellowship

May – Jun 2016

- Research Forum Award at the Deep Learning and Security Workshop at the National University of Singapore

Dec 2017

TEACHING EXPERIENCE

- Teaching Assistant for CS3235 Computer Security
- Teaching Assistant for CS5476 IoT Security

Spring 2020

Fall 2019