

TAPTI PALIT

CRA Computing Innovation Fellow, Purdue University
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EDUCATION

- **Postdoctoral Researcher (CRA Computing Innovation Fellow)** Oct 2021 - current
Department of Computer Science, Purdue University, West Lafayette, IN
Advisor: Dr. Pedro Fonseca
- **PhD in Computer Science** Aug 2015 - Oct 2021
Stony Brook University, Stony Brook NY
Thesis: Selective Data Encryption: A Scalable Defense against Sensitive Data Leakage
Advisor: Dr. Michalis Polychronakis
- **Masters in Computer Science** Aug 2013 - Aug 2015
Stony Brook University, Stony Brook NY
Thesis: Benchmarking Network-Intensive Applications
Advisor: Dr. Mike Ferdman

PUBLICATIONS

- Dinglan Peng, Congyu Liu, **Tapti Palit**, Pedro Fonseca, Anjo Vahldiek-Oberwagner, Mona Vij. “ μ SWITCH: Fast Kernel Context Isolation with Implicit Context Switches” in the IEEE Symposium on Security and Privacy (S&P), 2023.
- Seyedhamed Ghavamnia, **Tapti Palit**, and Michalis Polychronakis. “C2C: Fine-grained Configuration-driven System Call Filtering” in the Proceedings of the ACM SIGSAC Conference on Computer and Communications Security (CCS), 2022.
- **Tapti Palit**, Jarin Firose Moon, Fabian Monrose, and Michalis Polychronakis. “DynPTA: Combining Static and Dynamic Analysis for Practical Selective Data Protection” in the IEEE Symposium on Security and Privacy (S&P), 2021.
- **Tapti Palit**, Fabian Monrose, and Michalis Polychronakis. “Mitigating Data-only Attacks by Protecting Memory-resident Sensitive Data.” in ACM Digital Threats: Research and Practice (DTRAP), 2020. (*Extended Version*)
- Seyedhamed Ghavamnia, **Tapti Palit**, Shachee Mishra, and Michalis Polychronakis. “Temporal System Call Specialization for Attack Surface Reduction.” in the 29th USENIX Security Symposium (USENIX Security), 2020.
- Seyedhamed Ghavamnia, **Tapti Palit**, Azzedine Benameur, and Michalis Polychronakis. “Confine: Automated System Call Policy Generation for Container Attack Surface Reduction.” in the Proceedings of the International Conference on Research in Attacks, Intrusions, and Defenses (RAID), 2020.
- **Tapti Palit**, Fabian Monrose, and Michalis Polychronakis. “Mitigating Data Leakage by Protecting Memory-resident Sensitive Data.” in Proceedings of the 35th Annual Computer Security Applications Conference (ACSAC), 2019.
- Shenghsun Cho, Amoghavarsha Suresh, **Tapti Palit**, Michael Ferdman, and Nima Honarmand. “Taming the Killer Microsecond.” in the 51st Annual IEEE/ACM International Symposium on Microarchitecture (MICRO), 2018.
- **Tapti Palit**, Yongming Shen, and Michael Ferdman. “Demystifying Cloud Benchmarking.” in the IEEE international symposium on performance analysis of systems and software (ISPASS), 2016.
- Varun Agrawal, Abhiroop Dabral, **Tapti Palit**, Yongming Shen, and Michael Ferdman. “Architectural Support for Dynamic Linking.” in Proceedings of the Twentieth International Conference on Architectural Support for Programming Languages and Operating Systems (ASPLOS), 2015.

PROFESSIONAL SERVICE

- Program Committee Member for ASPLOS 2024
- Program Committee Member for ISC 2023
- Program Committee Member for DIMVA 2023, 2022
- Reviewer for ACM Journal: Transactions on Privacy and Security (TOPS), 2020
- External reviewer for CCS 2020, DIMVA 2020

TEACHING EXPERIENCE

- Guest Lecturer (2 lectures)
 - CS 408 (Software Testing), Purdue University Spring 2023
- Teaching Assistant
 - CSE 502 (Computer Architecture), Stony Brook University Spring 2016
 - CSE 391 (Cloud Computing), Stony Brook University Fall 2015
 - CSE 506 (Operating Systems), Stony Brook University Fall 2015

PROFESSIONAL EXPERIENCE

- Research Assistant Jan 2017 - Oct 2021
 Stony Brook University
 Supervisor: Dr. Michalis Polychronakis
- Research Engineer Intern May 2018 - Aug 2018
 Zeropoint Dynamics
 Supervisor: Dr. Kevin Snow

AWARDS

- CRA Computing Innovation Fellowship Oct 2021
- IEEE S&P Student Travel Award Apr 2018
- Stony Brook University CS Department Chair Fellowship Aug 2015

DIVERSITY AND INCLUSION WORK

- SBU CS Department Diversity Committee Member Jan-Oct 2021
- Web Admin and E-board Member of Women in PhD graduate club Feb 2017 - Oct 2021
- Instructor at SBU WISE's STEM mentorship program for female high school students Aug 2018 - May 2020