TAPTI PALIT

 $\label{eq:assistant} Assistant\ Professor,\ Department\ of\ Computer\ Science,\ University\ of\ California,\ Davis\\ tpalit@ucdavis.edu \diamond\ https://taptipalit.github.io$

EDUCATION

• PhD in Computer Science

Aug 2015 - Oct 2021

Department of Computer Science, 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

Department of Computer Science, Stony Brook University, Stony Brook NY

Thesis: Benchmarking Network-Intensive Applications

Advisor: Dr. Mike Ferdman

WORK EXPERIENCE

• Assistant Professor

July 2024 - present

Department of Computer Science, UC Davis.

• CRA Computing Innovation Fellow

Oct 2021 - Jun 2024

Purdue University

Supervisor: Dr. Pedro Fonseca

• 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

PUBLICATIONS

- Tapti Palit, and Pedro Fonseca. "Kaleidoscope: Precise Invariant-Guided Pointer Analysis" in Proceedings of the ACM International Conference on Architectural Support for Programming Languages and Operating Systems (ASPLOS), 2024.
- Dinglan Peng, Congyu Liu, **Tapti Palit**, Pedro Fonseca, Anjo Vahldiek-Oberwagner, and Mona Vij. "µSWITCH: Fast Kernel Context Isolation with Implicit Context Switches" in Proceedings of 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 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 Proceedings of 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 Proceedings of the 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 Proceedings of 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 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 Proceedings of the 51st Annual IEEE/ACM International Symposium on Microarchitecture (MICRO), 2018.
- Tapti Palit, Yongming Shen, and Michael Ferdman. "Demystifying Cloud Benchmarking." in Proceedings of 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 ACM International Conference on Architectural Support for Programming Languages and Operating Systems (ASPLOS), 2015.

PROFESSIONAL SERVICE

- Program committee member for IEEE S&P 2025
- Program committee member for ISC 2024, 2023
- Program committee member for ASPLOS 2024
- 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

AWARDS

• CRA Computing Innovation Fellowship

Oct 2021

• Stony Brook University CS Department Chair Fellowship

Aug 2015

DIVERSITY AND INCLUSION

• CS Department Diversity Committee Member, Stony Brook University

Jan-Oct 2021

• Web Admin and E-board Member of Women in PhD club, Stony Brook University

Feb 2017 - Oct 2021

• Instructor at STEM program for WiSE, Stony Brook University

Aug 2018 - May 2020