Seetal Potluri

Assistant Professor Phone: +1 (919) 601-2719 University at Albany, SUNY E-mail: spotluri@albany.edu

Website: seetalpotluri.com ETEC, Washington Avenue, Albany, NY 12226.

Research Interests

Security, Reliability, Computer Architecture, and Machine Learning.

Education

Post-Doc, Department of ECE, North Carolina State University	2019 - Present
Ph.D. , Department of EE, Indian Institute of Technology Madras Thesis: <i>Power: Its Manifestations in Digital Systems Testing</i>	2009 - 2015
M.Tech., Department of EE, Indian Institute of Technology Madras Thesis: Cell-aware UDFM for Deep Submicron Process Nodes	2007 - 2009
B.Tech. , Department of ECE, Amrita School of Engineering Thesis: Implementation of Adaptive Viterbi Decoder on FPGA	2003 - 2007

Honors and Awards

Best Paper Recognition Award - IEEE HOST Symposium	2021
Best Doctoral Thesis Runner-Up in Asia - IEEE TTTC Doctoral Thesis Contest	2015
Academic Recognition - Class topper with highest Cumulative G.P.A. in M.Tech.	2009
Academic Recognition - Class topper with highest Cumulative G.P.A. in B.Tech.	2007

Grant Writing Experience as Co-PI

National Science Foundation Secure and Trustworthy Cyberspace (SaTC), \$500K	2021
LockedNet: A Holistic Solution for Neural Network Hardware and Model IP Protection	
(Will be resubmitted)	

Semiconductor Research Corporation Hardware Security (HWS), \$210K Scan Infrastructure Security for Neural Networks: Analyzing and Countering Advanced Model Stealing Attacks (Phase-I Success; Invited for Full Proposal)

Research Experience

Postdoctoral Scholar, NC State University.

2019 - Present

2020

- Secure virtualization in multi-tenant FPGAs.
- Secure Non-Volatile Memory on FPGAs.
- Exposed scan-chain vulnerability for neural network hardware accelerators.
- Exposed power side-channel vulnerability of Microsoft's SEAL encryption library.
- Exposed power side-channel vulnerability of lattice-based key exchange.
- Cache timing side-channel attacks on Apple's iPhone.

Postdoctoral Scholar, TU Dresden.

2018 - 2019

• Secure DFT scheme that is resilient to 9 different state-of-the-art attacks.

Senior DFT Engineer, Xilinx Asia Pacific, Singapore.

2016 - 2018

- DFT, and post-silicon validation for high-bandwidth memory project.
- Top-off cell-aware ATPG: currently in production on Zynq SoCs.
- Delta-IDDq to catch test escapes: currently in production on Zynq SoCs.

1 ostudottari seriorari, 1 o Bermaria	2010 2010
 Physical design, DFT, and logic design for on-chip control in biochips. 	
 Fault-tolerant execution in biochips through cost-effective redundancy. 	
Research Assistant, IIT Madras.	2008 - 2015
Power and IR drop reduction during the structural at-speed test.	2000 – 2010
Exploiting power measurements to improve fault diagnostic resolution.	
 Cell-aware UDFM creation for an entire standard library. 	
Teaching Experience	
North Carolina State University	
 ECE 592 Cryptographic Engineering and Hardware Security (6 lectures) 	2019 - 2022
■ ECE 212 Fundamentals of Logic Design (6 lectures)	2019 - 2020
Technical University of Denmark	
• 02228 Fault-Tolerant Systems (3 lectures)	2015 - 2016
	2010 2010
Indian Institute of Technology Madras	9011 9015
• CS 6330 Digital Systems Testing and Testable Design (25 lectures)	2011 - 2015
CS 6230 CAD for VLSI (3 lectures)	2012
■ EE 5311 Digital IC Design (3 lectures)	2010 - 2012
Amrita School of Engineering	
■ EC 302 Digital Communication (1 lecture)	2006
Mentoring Experience	
Emre Karabulut – Ph.D. at NC State	2021 – Present
Furkan Aydin – Ph.D. at NC State	2019 - 2021
Priyank Kashyap – Ph.D. at NC State	2019 - 2021
Gregor Haas – M.S. at NC State	2019 - 2021
Shamik Kundu – Ph.D. at UT Dallas	2020
Yitong Zhou (BUPT, China) – GEARS exchange student	2020
Qinhan Tan (Zhejiang University, China) – GEARS exchange student	2019
Huili Chen – Ph.D. at UC, San Diego	2016 - 2017
Morten Chabert Eskesen – M.Sc. at DTU	2015
Satya Trinadh Adireddy – Ph.D. at IIT Hyderabad	2012 - 2015
Patanjali SLPSK – Ph.D. at IIT Madras	2013 - 2015
Roopashree Baskaran – B.Tech. at NIT Trichy	2013
Ramakumar Pasumarthi – B.Tech. at IIT Madras	2011 - 2012
Publication List	

2015 - 2016

Postdoctoral Scholar, TU Denmark.

Google Scholar Profile: https://scholar.google.com.sg/citations?user=TG9epCwAAAAJ&hl=en 13 journal articles, 20 conference proceedings, 3 theses, and 1 patent.

Journal Articles

- [1] S. Potluri, S. Kundu, A. Kumar, K. Basu, and A. Aysu, "SeqL+: Secure Scan-Obfuscation with Theoretical and Empirical Validation", IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, Vol. 42, No. 5, 2023, pp. 1406-1410.
- [2] P. Kashyap, F. Aydin, S. Potluri, P. Franzon, and A. Aysu, "2Deep: Enhancing Side-Channel Attacks on Lattice-Based Key-Exchange via 2D Deep Learning", IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, Vol. 40, No. 6, 2021, pp. 1217-1229.

- [3] H. Chen, S. Potluri, and F. Koushanfar, "Security of Microfluidic Biochip: Practical Attacks and Countermeasures", ACM Transactions on Design Automation of Electronic Systems (TODAES) 2020, 27:1-27:29.
- [4] S. Potluri, P. Pop, and J. Madsen, "Design-for-Testability of On-Chip Control in mVLSI Biochips", IEEE Design & Test, Vol. 36, No. 1, 2019, pp. 48-56.
- [5] S. Potluri, A. Satya Trinadh, Ch. Sobhan Babu, V. Kamakoti, and N. Chandrachoodan, "DFT Assisted Techniques for Peak Power Reduction during Scan Tests", ACM Transactions On Design Automation of Electronic Systems (TODAES), Vol. 21, No. 1, 2015, 21(1): 14:1-14:25.
- [6] A. S. Trinadh, S. Poturi, Ch. Sobhan Babu, S. G. Singh, and V. Kamakoti, "Optimal Don't Care Filling for Minimizing Peak Toggles During At-Speed Stuck-At Testing", ACM Transactions On Design Automation of Electronic Systems (TODAES), Vol. 5, No. 1, 2017, 23(1): 5:1-5:26.
- [7] G. V. Krishnan, V. Kamakoti, N. Chandrachoodan, and S. Potluri, "A Scalable Pseudo-Exhaustive Methodology for Testing and Diagnosis in Flow-based Microfluidic Biochips", IET Computers and Digital Techniques, Vol. 14, No. 3, 2020, pp. 122-131.
- [8] S. L. P. S. K. Patanjali, M. Patnaik, S. Potluri, and V. Kamakoti, "MLTimer: Leakage Power Minimization in Digital Circuits Using Machine Learning and Adaptive Lazy Timing Analysis", Journal of Low Power Electronics, Vol. 14, No. 2, 2018, pp. 285-301.
- [9] S. Burman, S. Potluri, D. Mukhopadhyay, and V. Kamakoti, "Power Consumption Vs. Hardware Security: Feasibility Study of Differential Power Attack on Linear Feedback Shift Register Based Stream Ciphers and Its Countermeasures", Journal of Low Power Electronics, Vol. 12, No. 2, 2016, pp. 99-106.
- [10] A. S. Trinadh, S. Potluri, S. Balachandran, Ch. Sobhan Babu, and V. Kamakoti, "XStat: Statistical X-Filling Algorithm for Peak Capture Power Reduction in Scan Tests", Journal of Low Power Electronics, Vol. 10, No. 1, 2013, pp. 107-115.
- [11] A. S. Trinadh, S. Potluri, Ch. Sobhan Babu, and V. Kamakoti, "An Efficient Heuristic for Peak Capture Power Minimization During Scan-Based Test", Journal of Low Power Electronics, Vol. 9, No. 2, 2013, pp. 264-274.
- [12] S. Potluri, N. Chandrachoodan, and V. Kamakoti, "Interconnect Aware Test Power Reduction", Journal of Low Power Electronics, Vol. 8, No. 4, 2012, pp. 516-525.
- [13] R. Pasumarthi, V. R. Devanathan, V. Vishvanathan, S. Potluri, and V. Kamakoti, "Thermal-Safe Dynamic Test Scheduling Method Using On-Chip Temperature Sensors for 3D MPSoCs", Journal of Low Power Electronics, Vol. 8, No. 5, 2012, pp. 684-695.

Peer-Reviewed Conference Publications

- [14] S. Jiang, S. Potluri, and T. Y. Ho, "Scalable Scan-chain-based Extraction of Neural Network Models", IEEE/ACM Design Automation and Test in Europe (DATE), 2023 (Accepted).
- [15] F. Aydin, E. Karabulut, S. Potluri, E. Alkim, and A. Aysu, "RevEAL: Single-Trace Side-Channel Leakage of the SEAL Homomorphic Encryption Library", IEEE/ACM Design Automation and Test in Europe (DATE), 2022, pp. 1527-1532.
- [16] E. Karabulut, C. Yuvarajappa, M. I. Shaikh, S. Potluri, A. Awad, and A. Aysu, "PR Crisis: Analyzing and Fixing Partial Reconfiguration in Multi-Tenant Cloud FPGAs", ACM Workshop on Attacks and Solutions in Hardware Security (ASHES), 2022 (Accepted).
- [17] F. Aydin, S. Potluri, and A. Aysu, "Machine Learning for Side-Channel Assessment of Next Generation Cryptosystems", IEEE International Symposium on On-Line Testing and Robust System Design (IOLTS), 2022 (Invited).
- [18] S. Potluri, and A. Aysu, "Stealing Neural Network Models through the Scan-Chain: A New Threat for ML Hardware", IEEE International Conference on Computer Aided Design (ICCAD), 2021, pp. 1-8.
- [19] G. Haas, S. Potluri, and A. Aysu, "iTimed: Cache Attacks on the Apple A10 Fusion SoC", IEEE International Symposium on Hardware Oriented Security and Trust (HOST), 2021, pp. 80-90 (Best Paper Recognition Award).

- [20] S. Potluri, A. Aysu, and A. Kumar, "SeqL: Secure Scan-Locking for IP Protection", IEEE International Symposium on Quality Electronic Design (ISQED), 2020, pp. 7-13.
- [21] F. Aydin, P. Kashyap, S. Potluri, P. Franzon, and A. Aysu, "DeePar-SCA: Breaking Parallel Architectures of Lattice Cryptography via Learning Based Side-Channel Attacks", International Conference on Embedded Computer Systems: Architectures, Modeling and Simulation (SAMOS), 2020, pp. 262-280.
- [22] F. Aydin, P. Kashyap, S. Potluri, P. Franzon, and A. Aysu, "Breaking Side-Channel Countermeasures through Deep Learning", IEEE International Conference on Computer Aided Design (ICCAD), 2020 (Invited).
- [23] Q. Tan, S. Potluri, and A. Aysu, "Efficacy of SAT-based Attacks in the Presence of Circuit Reverse-Engineering Errors", IEEE International Symposium on Circuits and Systems (ISCAS), 2020, pp. 1-5.
- [24] H. Chen, S. Potluri, and F. Koushanfar, "FlowTrojan: Insertion and Detection of Hardware Trojans on Flow-Based Microfluidic Biochips", IEEE International New Circuits and Systems Conference (NEWCAS), 2020, pp. 158-161.
- [25] S. Potluri, A. Schneider, M. Horslev-Petersen, P. Pop, and J. Madsen, "Synthesis of On-chip Control Circuits for mVLSI Biochips", IEEE/ACM Design Automation and Test in Europe (DATE), 2017, pp. 1799-1804.
- [26] S. Potluri, A. Mathew, R. Nerukonda, I. Hartanto, and S. Toutounchi, "Cell-aware ATPG to improve defect coverage for FPGA IPs and next generation MPSoCs", IEEE Asian Test Symposium (ATS), 2017, pp. 157-162.
- [27] M. C. Ekesen, P. Pop, and S. Potluri, "Architecture Synthesis of Cost Constrained Fault Tolerant Flow-based Biochips", IEEE/ACM Design Automation and Test in Europe (DATE), 2016, pp. 618-623.
- [28] A. Satya Trinadh, S. G. Singh, Ch. Sobhan Babu, S. Potluri, and V. Kamakoti, "DP- fill: A dynamic programming approach to X- filling for minimizing peak test power in scan tests", IEEE/ACM Design Automation and Test in Europe (DATE), 2015, pp. 836-841.
- [29] H.Chen, S. Potluri, and Farinaz Koushanfar, "BioChipWork: Reverse Engineering of Microfluidic Biochips", IEEE International Conference of Computer Design (ICCD), 2017, pp. 9-16.
- [30] S. Potluri, A. S. Trinadh, C. Rajamanikkam, and S. Balachandran, "LPScan: An algorithm for supply scaling and switching activity minimization during test", IEEE International Conference on Computer Design (ICCD), 2013, pp. 463-466.
- [31] S. Potluri, A. S. Trinadh, S. Saraf, and V. Kamakoti, "Component fault localization using switching current measurements", IEEE European Test Symposium (ETS), 2016, pp. 1-2.
- [32] S. Potluri, A. S. Trinadh, R. Baskaran, N. Chandrachoodan, and V. Kamakoti, "PinPoint: An algorithm for enhancing diagnostic resolution using capture cycle power information", IEEE European Test Symposium (ETS), 2013, pp. 1.
- [33] S. Potluri, N. Chandrachoodan, and V. Kamakoti, "Post-Synthesis Circuit Techniques for Runtime Leakage Reduction", IEEE International Symposium on VLSI (ISVLSI), 2011, pp. 319-320.

Patent

[33] S. Potluri, P. Pop, and J. Madsen, "Complementary pneumatic digital logic for on-chip control of labon-chip devices", World Intellectual Property Organization (WIPO) 2018, Pub. No. WO/2018/104516. Link: https://patentscope.wipo.int/search/en/detail.jsf?docId=WO2018104516

Theses

- [34] S. Potluri, "Power: Its Manifestations in Digital Systems Testing", Doctoral Dissertation, Indian Institute of Technology Madras, 2015.
- [35] S. Potluri, "Cell-Aware UDFM for Deep Submicron Process Nodes", Masters Dissertation, Indian Institute of Technology Madras, 2009.
- [36] S. Potluri, "Implementation of Adaptive Viterbi Decoder on FPGA", Bachelors Dissertation, Amrita School of Engineering, Coimbatore, 2007.

News Coverage of Research

$\begin{tabular}{ll} DATE\ 2022: RevEAL: Single-Trace\ Side-Channel\ Leakage\ of\ the\ SEAL\ Homomorphic\ Encryption\ Library. \end{tabular}$

My DATE 2022 research paper has been publicized through an NC State news release and has subsequently been featured on Hacker News, CSO Online, and The Digital Hacker among other places. This was covered by the cybersecurity news site Dark Reading and the interview was published online along with the news coverage.

HOST 2021: iTimed: Cache Attacks on the Apple A10 Fusion SoC.

My HOST 2021 research paper has been publicized through an NC State news release and has subsequently been featured in several news agencies including The Register and WRAL TechWire. This was covered by CBS Raleigh and the interview was published on live TV (CBS 17) as part of Wake County News.

Membership

A. Singh et al, Chennai, India.

Member IEEE - Institute of Electrical and Electronics Engineers

Member ACM – Association for Computing Machinery

Invited Talks and Presentations

Stealing Neural Network Models through the Scan-Chain: A New Threat for ML Hardware		
■ Se	econd Workshop on Machine Learning & Hardware Security	2021
SeqL:	Secure Scan-Locking for IP Protection	
• IE	EEE CEDA CAD for Assurance	2021
■ In	dian Institute of Technology Madras	2019
• No	orth Carolina State University, ECE 592 Guest Lecture	2019
Design	n automation for Microfluidic Biochips	
■ Éo	cole Polytechnique Fédérale de Lausanne	2016
• U1	niversity of Cambridge	2016
Power	r: Its Manifestations in Digital Systems Testing	
■ Ri	ice University	2013
■ Pu	urdue University	2013
• U1	niversity of California at Berkeley	2014
 Te 	echnical University of Denmark	2015
■ In	dian Institute of Technology Kharagpur	2015
■ In	idian Statistical Institute Kolkata	2015
Wor	kshops Attended	
	Channel Analysis and Fault Injection sin et al, Singapore.	2021
	Channel Analysis and Fault Injection Carpi, Raleigh, North Carolina.	2019
	re User Workshop tteman et al, Fort Meade, Maryland.	2019
	et et al, Grenoble, France.	2015
Intern	national Workshop on Reliability Aware Design and Test	2011

Academic Service

Technical Program Committee Member 2022, 2023 IEEE Design Automation Conference (DAC) 2023, 2023 IEEE International Conference on Computer-Aided Design (ICCAD) 2023 IEEE Asia South Pacific Design Automation Conference (ASP-DAC) 2018 – 2028 IEEE Asian Test Symposium (ATS) 2017, 2022, 2023 IEEE International Conference on VLSI Dosign (VLSID) 2022, 2023 IEEE International Symposium on VLSI (ISVLSI) 2022, 2023 IEEE International Conference on Computer Design (ICCD) 2022, 2023 ACM Hot Topics in the Science of Security (HotSOS) 2023 ACM Hardware and Architectural Support for Security and Privacy (HASP) 2023 ACM Workshop on Attacks and Solutions in Hardware Security (ASHES) 2023 EEE Design Automation Conference (DAC) 2024 IEEE Design Automation and Test in Europe (DATE) 2027 IEEE Design, Automation and Test in Europe (DATE) 2027 IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems (TCAD) 2027 IEEE Transactions on Design Automation of Electronic Systems (TODAES) 2028 IEEE Transactions on Pasign Automation of Electronic Systems (TCDAES) 2028 IEEE Transactions on Design Automation of Electr	Academic Service	
IEEE Asia South Pacific Design Automation Conference (ASP-DAC) 2018–2022 IEEE Asia South Pacific Design Automation Conference (ASP-DAC) 2016–2018 IEEE European Test Symposium (ATS) 2016–2018 IEEE International Test Conference Asia (ITC-Asia) 2017, 2022, 2023 IEEE International Conference on VLSI Design (VLSID) 2022, 2023 IEEE International Conference on Computer Design (ICCD) 2022, 2023 IEEE International Conference on Computer Design (ICCD) 2023, 2023 ACM Hot Topics in the Science of Security (HotSoS) 2023 ACM Workshop on Attacks and Solutions in Hardware Security (ASHES) 2023 ACM Workshop on Attacks and Solutions in Hardware Security (ASHES) 2020 EEE Design Automation Conference (DAC) 2022 IEEE International Symposium on Circuits and Systems (ISCAS) 2020 IEEE Design Automation and Test in Europe (DATE) 2017 IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems (TCAS) 2021 IEEE Transactions on Very Large Integrated Systems (TVLSI) 2022 IEEE Transactions on Very Large Integrated Systems (TVLSI) 2022 IEEE Transactions on Design Automation of Electronic Systems (TODAS) 2022 Springer	Technical Program Committee Member	
IEEE Asia South Pacific Design Automation Conference (ASP-DAC) 2016 – 2028 IEEE European Test Symposium (ETS) 2017, 2022, 2023 IEEE International Test Conference Asia (ITC-Asia) 2017 IEEE International Conference on VLSI Design (VLSID) 2022, 2023 IEEE International Symposium on VLSI (ISVLSI) 2022, 2023 IEEE International Conference on Computer Design (ICCD) 2022, 2023 ACM Hot Topics in the Science of Security (HOtSO) 2023 ACM Hordware and Architectural Support for Security and Privacy (HASP) 2023 ACM Workshop on Attacks and Solutions in Hardware Security (ASHES) 2023 ACM Workshop on Attacks and Solutions in Hardware Security (ASHES) 2022 EEE Design Automation Conference (DAC) 2022 IEEE International Symposium on Circuits and Systems (ISCAS) 2021 IEEE Design, Automation and Test in Europe (DATE) 2017 IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems (TCAD) 2021 IEEE Transactions on Computers (TC) IEEE Transactions on Design Automation of Electronic Systems (TDAES) IEEE Transactions on Design Automation of Electronic Systems (TDAES) IEEE Security and Frivacy Magnatine IEEE Security and Privacy Magnatine IEEE Securi	IEEE Design Automation Conference (DAC)	2022, 2023
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