Teodora Baluta teobaluta@gmail.com • https://teobaluta.github.io/ Updated on November 2, 2023 Latest CV here

EDUCATION	National University of Singapore, Singapore2• Ph.D. in Computer Science2• Advisers: Prateek Saxena and Kuldeep S. Meel.	017 – 2024 (expected)
	Politehnica University of Bucharest, Romania	
	M.Sc. in Computer ScienceTopic: Security of Complex Networks.	2014 - 2016
	 B.Sc. in Computer Science Specialization: Compilers and Operating Systems. 	2010 - 2014
HONORS & AWARDS	 EECS Rising Stars, Georgia Tech Dean's Graduate Research Excellence Award, National University of Sing 	2023 2023 2023
	 Google PhD Fellowship, Google 	2021 – 2023
	 Finalist for Microsoft Research Asia Fellowship, Microsoft 	2021
	President's Graduate Fellowship, National University of Singapore	2017 - 2021
	 Best Poster Award, Research Week, National University of Singapore 	2019
	Research Forum Award, Deep Learning Security (DLS) Workshop	2017
	 Merit Scholarship, Politehnica University of Bucharest For attaining amongst top GPAs per semester. 	2011, 2013

PUBLICATIONS

[CCS23]	"Unforgeability in Stochastic Gradient Descent" Teodora Baluta , Ivica Nikolic, Racchit Jain, Divesh Aggarwal, and Prateek Saxena. Proceedings of the 2023 ACM SIGSAC Conference on Computer and Communications Security (CCS). 2023.
[OOPSLA23]	"User-customizable Transpilation of Scripting Languages" Bo Wang, Aashish Kolluri, Ivica Nikolic, Teodora Baluta , and Prateek Saxena. <i>ACM SIGPLAN International Conference on Object-oriented programming systems,</i> <i>languages, and applications (OOPSLA).</i> 2023.
[SAT23]	"Explaining SAT Solving Using Causal Reasoning" Jiong Yang, Arijit Shaw, Teodora Baluta , Mate Soos, and Kuldeep S. Meel. <i>Proceedings of International Conference on Theory and Applications of Satisfiability</i> <i>Testing</i> (SAT). 2023.
[CCS22a]	"Membership Inference Attacks and Generalization: A Causal Perspective" Teodora Baluta , Shiqi Shen, S Hitarth, Shruti Tople, and Prateek Saxena. <i>Proceedings of the 2022 ACM SIGSAC Conference on Computer and</i> <i>Communications Security (CCS)</i> . 2022.
[CCS22b]	"LPGNet: Link Private Graph Networks for Node Classification" Aashish Kolluri, Teodora Baluta , Bryan Hooi, and Prateek Saxena. <i>Proceedings</i> <i>of the 2022 ACM SIGSAC Conference on Computer and Communications Security</i> (<i>CCS</i>). 2022.
[ICSE21]	"Scalable Quantitative Verification For Deep Neural Networks" Teodora Baluta , Zheng Leong Chua, Kuldeep S Meel, and Prateek Saxena. <i>Proceedings of the 43rd International Conference on Software Engineering (ICSE)</i> . 2021.
[CCS21]	"Private hierarchical clustering in federated networks" Aashish Kolluri, Teodora Baluta , and Prateek Saxena. <i>Proceedings of the 2021 ACM</i> <i>SIGSAC Conference on Computer and Communications Security</i> (CCS). 2021.
[ESEC/FSE21]	"SynGuar: guaranteeing generalization in programming by example" Bo Wang, Teodora Baluta , Aashish Kolluri, and Prateek Saxena. <i>Proceedings of</i> <i>the 29th ACM Joint Meeting on European Software Engineering Conference and</i> <i>Symposium on the Foundations of Software Engineering</i> (ESEC/FSE). 2021.

	[CCS19]	"Quantitative verification of neural networks and its security Teodora Baluta , Shiqi Shen, Shweta Shinde, Kuldeep Saxena. Proceedings of the 2019 ACM SIGSAC Conferen Communications Security (CCS). 2019.	applications" S Meel, and Prateek ace on Computer and		
	[NDSS19]	"One Engine To Serve'em All: Inferring Taint Rules Semantics" Zheng Leong Chua Yanhao Wang Teodora Baluta Prateek S	Without Architectural		
		and Purui Su. Proceedings of the Symposium on Network a Security (NDSS). 2019.	nd Distributed System		
	[WSC17]	"Modeling the effects of insider threats on cybersecurity of co Teodora Baluta , Lavanya Ramapantulu, Yong Meng Teo, <i>Simulation Conference (WSC)</i> , 2017 Winter. IEEE. 2017.	omplex systems" and Ee-Chien Chang.		
WORK EXPERIENCE	Research Inter • Hosts: Daniel	n , Google Brain, Montreal Tarlow and Fabian Pedregosa.	2022		
	Research Intern, National University of Singapore2016Advised by Yong Meng Teo.2016				
	Software Engineer, Intel2014 – 2016Developed Linux device drivers for sensors, systems-level interface with Android, RFC for biometric sensors.				
	Software Engin	eer Intern (Summer), 4PSA	2013, 2014		
TEACHING	Teaching Assistant, National University of Singapore				
	 Introduction 	Spring 2018			
	 Systems Sector 	Fall 2018, Fall 2019			
	Teaching Assist	tant, Politennica University of Bucharest, Local Area Networks	2015		
SERVICE	Co-chair, Research Week, National University of Singapore 2019				
	 Sub-reviewer IEEE Symposium on Security & Privacy (Oakland) 2018, 2019 USENIX Security Symposium (USENIX) 2019 				
	Reviewer Neural Information Processing Systems (NeurIPS) 2021, 2022 				
	Deep LearningPrivacy-Preser	Security (DLS) Workshop 2022, 2023 ving Machine Learning (PPML) Workshop 2021			
OTHER WORK	Mozilla Winter	of Security Student Project, Mozilla	Oct 2015 – Feb 2016		
EXPERIENCE	Linux Kernel I	Developer Intern, Linux Foundation, Outreachy Program	Dec 2013 – Mar 2013		