Ning Luo

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Education

Sep. 2017 – Dec. 2022	**Yale University** – New Haven, CT, US PhD in Computer Science Advisor: Prof. Ruzica Piskac Thesis: Privacy-Preserving Formal Methods
Sep. 2013 – Jun. 2017	**Shandong University** – Jinan, Shandong, China B.S. in Mathematics

Publications

2023   *Privacy-Preserving Regular Expression Matching using Nondeterministic Finite Automata*
Ning Luo[*], Chenkai Weng[*], Jaspal Singh, Gefei Tan, Ruzica Piskac, Mariana Raykova
eprint.

2023   *Ou: Automating the Parallelization of Zero-Knowledge Protocol*
Yuyang Sang[*], **Ning Luo**[*], Samuel Judson, Ben Chaimberg, Timos Antonopoulos, Xiao Wang, Zhong Shao. *Proceedings of the 2023 ACM SIGSAC Conference on Computer and Communications Security (CCS 2023).*

2022   *Proving UNSAT in Zero Knowledge.*
Ning Luo, Timos Antonopoulos, William Harris, Ruzica Piskac, Eran Tromer, Xiao Wang. *Proceedings of the 2022 ACM SIGSAC Conference on Computer and Communications Security (CCS 2022).*
Receipt of **Distinguished Paper Award.**

2022   *ppSAT: Towards Two-Party Private SAT Solving.*
Ning Luo, Samuel Judson, Timos Antonopoulos, and Ruzica Piskac. *Proceedings of the 31st USENIX Security Symposium (USENIX Security 2022).*

2021   *Looking for the Maximum Independent Set: A New Perspective on the Stable Path Problem.*
Yichao Cheng, **Ning Luo**, Jingxuan Zhang, Timos Antonopoulos, Ruzica Piskac, Qiao Xiang. *IEEE International Conference on Computer Communications 2021 (INFOCOM 2021).*

2019   *Privacy Preserving CTL Model Checking through Oblivious Graph Algorithms.*
Samuel Judson, **Ning Luo**, Timos Antonopoulos, Ruzica Piskac. *Workshop on Privacy in the Electronic Society 2020 (WPES 2020).*

Honors and Scholarships

Jan. 2023	Yale Roberts Innovation Award
Nov. 2022	Distinguished Paper Award, ACM CCS 2022 (5 selected from 972 submissions)
Jun. 2022	USENIX Security 2022 Student Grant
Jan. 2022	VMCAI 2022 Student Fellowship
Spring 2021	Student participant at Simons Institute for Theoretical Foundations of Computer Systems (TFCS)
Jun. 2019	CAV 2019 Student Fellowship

Service

2024	CSF 2024 Program Committee
2024	PoPETs 2024 Program Committee
2023	CAV 2023 External Reviewer
2023	USENIX Security 2023 Artifact Evaluation Committee
2022	POPL 2022 Session Chair of TutorialFest

Internship Experience

Jun. 2022 – Sep. 2022	**Galois, Inc.** – Portland, OR. Mentors: James Parker
Jun. 2020 – Sep. 2020	**Galois, Inc.** – Portland, OR. Mentors: Bill Harris and Alex Malozemoff

Mentorship

Fall 2022	Qiuyue Qin, Huisan Xu (Masters at Xiamen University)
Summer 2020	Michael Chen (Undergraduate at Yale University)
Fall 2019	Yichao Cheng (Undergraduate at Yale University)

Teaching Experience

Fall 2022	**Teaching Fellow**, Law, Security, and Logic (Yale University)
Spring 2022	**Teaching Fellow**, Software Engineering (Yale University)
Fall 2021	**Teaching Fellow**, Computer System Security (Yale University)
Spring 2021	**Teaching Fellow**, Software Engineering (Yale University)
Fall 2020	**Teaching Fellow**, Cryptography and Computer Security (Yale University)
Spring 2020	**Teaching Fellow**, Artificial Intelligence (Yale University)
Fall 2019	**Teaching Fellow**, Algorithm via Continuous Optimization (Yale University)

Talks

Apr. 2023	Proving UNSAT in Zero Knowledge
	Invited talk *at Satisfiability: Theory, Practice, and Beyond Workshop*
	Simons Institute, University of California, Berkeley
Apr. 2023	Automating the Parallelization of Zero-Knowledge Protocols
	DARPA SIEVE PI Meeting
Nov. 2022	Proving UNSAT in Zero Knowledge.
	ACM SIGSAC Conference on Computer and Communications Security
Aug. 2022	ppSAT: Towards Two-Party Privacy-Preserving SAT Solving
	USENIX Security Symposium
Jan. 2022	Privacy-preserving formal methods: proving UNSAT in Zero Knowledge.
	Invited talk *at New York University*
Dec. 2019	Privacy-Preserving Model Checking
	Invited talk *at Microsoft*