# Ning Luo

ning.k.luo@gmail.com • https://ning0luo.github.io/ • +1 475-223-5898

T 1				
Ed	114	മ	11	Λn
				.,

Seb. 2017 – Tale University – New Haven, C1. US	Sep. 2017 –	Yale University - New Haven, CT, US
---	-------------	-------------------------------------

Dec. 2022 PhD in Computer Science

Advisor: Prof. Ruzica Piskac

Thesis: Privacy-Preserving Formal Methods

Sep. 2013 - **Shandong University** - Jinan, Shandong, China

Jun. 2017 B.S. in Mathematics

### Honors and Scholarships

Nov. 2023	EECS Rising Stars
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	Selected student participant at Simons Institute for Theoretical Foundations
	of Computer Systems (TFCS)
Jun. 2019	CAV 2019 Student Fellowship

#### Grants

NSF Automating and Synthesizing Parallel Zero-Knowledge Protocols.

CCF-2318974 **key personnel** (with Xiao Wang (PI), Ruzica Piskac, and Timos Antonopoulos). \$ 299,499. Oct. 2023 - Sep. 2027

### **Publications**

(\* indicates equal contribution)

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).

#### Service

- 2024 Euro S&P Program Committee, CSF Program Committee, PoPETs Program Committee.
- 2023 CAV External Reviewer, USENIX Security External Reviewer, USENIX Security Artifact Evaluation Committee.
- 2022 POPL Session Chair of TutorialFest.

### **Internship Experience**

Summer 2022 Galois, Inc. – Portland, OR.

Mentors: James Parker

Summer 2020 Galois, Inc. - Portland, OR.

Mentors: Bill Harris and Alex Malozemoff

### **Mentorship**

Fall 2022 Qiuyue Qin, Huisan Xu (Masters at Xiamen University)

Publication: Toward Privacy-Preserving Interdomain Configuration Verification via Multi-Party Computation (APNET 2023)

2019-2021 Yichao Cheng (Undergraduate at Yale University)

Publication: Looking for the Maximum Independent Set: A New Perspective on the Stable Path Problem. (INFOCOM 2021)

Thesis: *Methods for Privacy-Preserving Model Checking in LTL.* 

Summer 2020 Michael Chen (Undergraduate at Yale University)

## **Teaching Experience**

	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	<b>Teaching Fellow</b> , 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