Ning Luo

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New Haven, CT, US

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, CN B.S. in Mathematics

Publications

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 Robert 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

Talks

April. 2023	Proving UNSAT in Zero Knowledge ***Invited talk*** *at Satisfiability: Theory, Practice, and Beyond Workshop* *Simons Institute, University of California, Berkeley*
April. 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*

Mentorship

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

Internship Experience

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

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)

Service

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

Summer/Winter Schools and Bootcamps

Jun. 2022	SRI Summer School on Formal Techniques – San Jose , CA
Jan. 2020	VMCAI Winter School – New Orleans, LA
Dec. 2019	Microsoft Private AI Bootcamp – Richmond, WA

References

- Prof. Clark Barrett, Ph.D., Professor (Research)
  School of Computer Science, Stanford University, Stanford, CA, USA
  barrett@cs.stanford.edu

- Prof. Ruzica Piskac, Ph.D., Associate Professor
  School of Computer Science, Yale University, New Haven, CT, USA
  ruzica.piskac@yale.edu

- Prof. Eran Tromer, Ph.D., Associate Research Scientist
  Fu Foundation School of Engineering and Applied Science, Columbia University, New York, NY, USA
  eran@tromer.org

- Prof. Xiao Wang, Ph.D., Assistant Professor
  Department of Computer Science, Northwestern University, Evanston, IL, USA
  wangxiao@northwestern.edu