

## CSAW'19 Applied Research Competition Winners & Finalists

Finalists listed in random order

Event	Global Region	Status	Paper	Presenter	Authors
CSAW'19	US-Canada	<b>1st Place</b>	<a href="#">True2F: Backdoor-resistant authentication tokens</a>	Emma Dauterman, Stanford University	Emma Dauterman (Stanford and Google), Henry Corrigan-Gibbs (Stanford), David Mazières (Stanford), Dan Boneh (Stanford), Dominic Rizzo (Google)
CSAW'19	US-Canada	<b>2nd Place</b>	<a href="#">Practical Hidden Voice Attacks against Speech and Speaker Recognition Systems</a>	Hadi Abdullah, University of Florida	Hadi Abdullah, Washington Garcia, Christian Peeters, Patrick Traynor, Kevin R. B. Butler, and Joseph N. Wilson (all University of Florida)
CSAW'19	US-Canada	<b>3rd Place</b>	<a href="#">Dangerous Skills: Understanding and Mitigating Security Risks of Voice-Controlled Third-Party Functions on Virtual Personal Assistant Systems</a>	Xianghang Mi, Indiana University Bloomington	Nan Zhang (Indiana University Bloomington), Xianghang Mi (Indiana University Bloomington), Xuan Feng (Beijing Key Laboratory of IOT Information Security Technology, Institute of Information Engineering, CAS), Xiaofeng Wang (Indiana University Bloomington), Yuan Tian (University of Virginia), and Feng Qian (University of Minnesota)
CSAW'19	US-Canada	<b>Finalist</b>	<a href="#">Data Oblivious ISA Extensions for Side Channel-Resistant and High Performance Computing</a>	Jiyong Yu, University of Illinois at Urbana-Champaign	Jiyong Yu, Lucas Hsiung, Mohamad El Hajj, and Christopher Fletcher (all University of Illinois at Urbana-Champaign)
CSAW'19	US-Canada	<b>Finalist</b>	<a href="#">DeepCorr: Strong Flow Correlation Attacks on Tor Using Deep Learning</a>	Milad Nasr, University of Massachusetts - Amherst	Milad Nasr, Alireza Bahramali and Amir Houmansadr (all University of Massachusetts - Amherst)
CSAW'19	US-Canada	<b>Finalist</b>	<a href="#">NEUZZ: Efficient Fuzzing with Neural Program Smoothing</a>	Dongdong She, Columbia University	Dongdong She, Kexin Pei, Dave Epstein, Junfeng Yang, Ray Bashakhi and Suman Jana (all Columbia University)
CSAW'19	US-Canada	<b>Finalist</b>	<a href="#">PeriScope: An Effective Probing and Fuzzing Framework for the Hardware-OS Boundary</a>	Dokyung Song, University of California, Irvine	Dokyung Song (University of California, Irvine), Felicitas Hetzelt (TU Berlin), Dipanjan Das (University of California, Santa Barbara), Chad Spensky (University of California, Santa Barbara), Yeoul Na (University of California, Irvine), Stijn Volckaert (Katholieke Universiteit Leuven), Giovanni Vigna (University of California, Santa Barbara), Christopher Kruegel, Jean-Pierre Seifert (TU Berlin), and Michael Franz (University of California, Irvine)
CSAW'19	US-Canada	<b>Finalist</b>	<a href="#">ProFuzzer: On-the-fly Input Type Probing for Better Zero-day Vulnerability Discovery</a>	Shiqing Ma, Purdue University	Wei You (Purdue University) and Xueqiang Wang (Indiana University Bloomington)

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CSAW'19	US-Canada	Finalist	<a href="#"><u>The Betrayal At Cloud City: An Empirical Analysis Of Cloud-Based Mobile Backends</u></a>	Omar Alrawi, Georgia Institute of Technology	Omar Alrawi (Georgia Institute of Technology), Chaoshun Zuo (The Ohio State University), Ruian Duan (Georgia Institute of Technology), Ranjita Pai Kasturi (Georgia Institute of Technology), Zhiqiang Lin (The Ohio State University), and Brendan Saltaformaggio (Georgia Institute of Technology)
CSAW'19	US-Canada	Finalist	<a href="#"><u>VRASED: A Verified Hardware/Software Co-Design for Remote Attestation</u></a>	Ivan De Oliveira Nunes, University of California, Irvine	Ivan De Oliveira Nunes (University of California, Irvine), Karim Eldefrawy (SRI International), Norrathep Rattanaivanon (University of California, Irvine), Michael Steiner (Intel), and Gene Tsudik (University of California, Irvine)