

Gerry Wan

gerryw@cs.stanford.edu
571-295-1051
<https://thegwan.github.io/>

Education

Stanford University

Ph.D. in Computer Science, October 2019-present

Advised by Prof. Zakir Durumeric

Princeton University

B.S.E. in Electrical Engineering, *summa cum laude*, June 2019

Advised by Prof. Prateek Mittal

Thesis: *Guard Placement Attacks on Path Selection Algorithms for Tor*

Thomas Jefferson High School for Science and Technology

Advanced Studies Diploma, June 2015

Publications

[1] **Efficient Multi-WAN Transport for 5G with OTTER**

In submission

[2] **Retina: Analyzing 100 GbE Traffic on Commodity Hardware**

Gerry Wan, Fengchen Gong, Tom Barbette, and Zakir Durumeric

ACM Special Interest Group on Data Communication (SIGCOMM), August 2022

[3] **On the Origin of Scanning: The Impact of Location on Internet-Wide Scans**

Gerry Wan, Liz Izhikevich, David Adrian, Katsunari Yoshioka, Ralph Holz, Christian Rossow, and Zakir Durumeric

ACM Internet Measurement Conference (IMC), October 2020

[4] **Guard Placement Attacks on Path Selection Algorithms for Tor**

Gerry Wan, Aaron Johnson, Ryan Wails, Sameer Wagh, and Prateek Mittal

Privacy Enhancing Technologies Symposium (PETS), July 2019

Experience

Researcher, Microsoft

Continuing work performed as Research Intern, August 2022-present

Research Intern, Microsoft

Office of the CTO, Azure for Operators, May-August 2022

Advised by Dr. Sharad Agarwal, Dr. Rachee Singh, Dr. Ryan Beckett, and Dr. Abhishek Udupa

Research in multi-WAN routing performance and optimization

Software Engineer Intern (PhD), Microsoft

Azure PhyNet, Azure Networking Group, June-August 2019

Advised by Dr. Andrew Putnam

Built performance testing framework for Azure Accelerated Networking FPGA SmartNICs.

Software Engineer Intern, Microsoft

Data Engine, Business Applications Group, June-August 2018

Reduced response times for Dynamics365 offline database synchronization framework.

Speaking

- October 2022 Retina: Analyzing 100 GbE Traffic on Commodity Hardware
Arista Networks, Remote
- September 2022 Retina: Analyzing 100 GbE Traffic on Commodity Hardware
Pigasus Developers Meeting, Remote
- August 2022 Retina: Analyzing 100 GbE Traffic on Commodity Hardware
SIGCOMM 2022, Amsterdam, Remote
- July 2022 Retina: Analyzing 100 GbE Traffic on Commodity Hardware
University of Chicago, Remote
- July 2022 Retina: Analyzing 100 GbE Traffic on Commodity Hardware
Microsoft AFO, Remote
- December 2020 Passive Analysis for Large-Scale Internet Security Research
Stanford Systems Seminar, Remote
- October 2020 Passive Analysis for Large-Scale Internet Security Research
IMC 2020, Remote
- October 2020 On the Origin of Scanning: The Impact of Location on Internet-Wide Scans
Stanford Security Lunch Stanford, CA
- November 2019 Guard Placement Attacks on Path Selection Algorithms for Tor
Stanford Security Lunch Stanford, CA
- July 2019 Guard Placement Attacks on Path Selection Algorithms for Tor
PETS 2019, Stockholm

Teaching

- Winter 2023 **Lecturer/Head Course Assistant, The Modern Internet**
CS 249i, Stanford University, Instructor: Zakir Durumeric
- Fall 2022 **Lecturer/Head Course Assistant, Topics in Computer and Network Security**
CS 356, Stanford University, Instructor: Zakir Durumeric
- Spring 2019 **Teaching Assistant, Building Real Systems (Car Lab)**
ELE 302, Princeton University, Instructor: Jeff Thompson
- Fall 2018 **Teaching Assistant, Operating Systems**
COS 318, Princeton University, Instructor: Jaswinder Singh
- Fall 2017 **Teaching Assistant, Contemporary Logic Design**
ELE 206 / COS 306, Princeton University, Instructor: Sharad Malik
- Spring 2017-18 **Lab Assistant, Introductory Computer Science Sequence**
COS 126, 226, 217, Princeton University

Advising and Mentoring

Stanford undergraduate and master's students

- 2023 Anna Ascheman, Michelina Hanlon, George Hosono, Daniel Rebelsky
- 2022 Jerry Chen, Laura Bauman
- 2021 Fengchen (Maggie) Gong (→ Princeton Ph.D.), Gordon Martinez-Piedra

Professional Service

Subreviewer

- USENIX Symposium on Networked Systems Design and Implementation (NSDI), 2021
- CCS Workshop on Privacy Preserving Machine Learning in Practice (PPMLP), 2020
- ACM Internet Measurement Conference (IMC), 2020, 2021
- USENIX Security Symposium (SEC), 2020

Volunteering

- Stanford Computer Science Student Applicant Support Program, 2020, 2021
- Princeton Electrical Engineering Website Design Committee (ece.princeton.edu), 2019

Honors and Awards

Calvin Dodd MacCracken Senior Thesis Award

Princeton University School of Engineering and Applied Science, 2019

For the senior thesis that is most distinctive for its inventiveness and technical accomplishment.

Hisashi Kobayashi Prize

Princeton University Department of Electrical Engineering, 2019

For an outstanding record in the broad field of computing.