

# Gerry Wan

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<https://thegwan.github.io/>

## Education

- 2019-2024 **Stanford University**  
Ph.D. in Computer Science  
Research advisor: Prof. Zakir Durumeric
- 2015-2019 **Princeton University**  
B.S.E. in Electrical Engineering, *summa cum laude*  
Minor in Computer Science  
Research advisor: Prof. Prateek Mittal
- 2012-2015 **Thomas Jefferson High School for Science and Technology**  
Advanced Studies Diploma

## Experience

- Current **Software Engineer, Google**  
AI & Infrastructure  
AI agents, cluster qualification, and traffic engineering.
- 2023-2024 **Research Intern/Student Researcher, Google**  
Machine Learning, Systems, and Cloud AI  
Deep learning-based stochastic optimization for traffic engineering.
- 2022-2023 **Research Intern/Research Contractor, Microsoft**  
Office of the CTO; Azure for Operators  
Efficient routing and resource allocation for 5G traffic, work published at NSDI.
- 2019 **Software Engineer Intern (PhD), Microsoft**  
Azure Networking
- 2018 **Software Engineer Intern, Microsoft**  
Business Applications Group

## Publications

- [1] **Iris: Expressive Traffic Analysis for the Modern Internet**  
Thea Rossman, Diana Qing, [Gerry Wan](#), and Zakir Durumeric  
*Under Review*
- [2] **Hop: A Modern Transport and Remote Access Protocol**  
Paul Flammarion, Wilson Nguyen, George Hosono, Laura Bauman, Daniel Rebelsky,  
[Gerry Wan](#), David Adrian, and Zakir Durumeric  
*Under Review*
- [3] **ServeFlow: A Fast Slow Model Architecture for Network Traffic Analysis**  
Shinan Liu, Ted Shaowang, [Gerry Wan](#), Jeewon Chae, Jonatas Marques, Sanjay  
Krishnan, Nick Feamster  
*Under Review*

- [4] **CATO: End-to-end Optimization of ML-Based Traffic Analysis Pipelines**  
Gerry Wan, Shinan Liu, Francesco Bronzino, Nick Feamster, and Zakir Durumeric  
*USENIX Symposium on Networked Systems Design and Implementation (NSDI)*, 2025
- [5] **Efficient Multi-WAN Transport for 5G with OTTER**  
 Mary Hogan\*, Gerry Wan\*, Yiming Qiu, Sharad Agarwal, Ryan Beckett, Rachee Singh,  
 and Paramvir Bahl  
*USENIX Symposium on Networked Systems Design and Implementation (NSDI)*, 2025
- [6] **Detecting VPN Traffic through Encapsulated TCP Behavior**  
 Michelina Hanlon, Gerry Wan, Anna Ascheman, and Zakir Durumeric  
*Free and Open Communications on the Internet (FOCI)*, 2024
- [7] **Retina: Analyzing 100 GbE Traffic on Commodity Hardware**  
Gerry Wan, Fengchen Gong, Tom Barbette, and Zakir Durumeric  
*ACM Special Interest Group on Data Communications (SIGCOMM)*, 2022
- [8] **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)*, 2020
- [9] **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)*, 2019

## Teaching

- Winter 2023-24 **Lecturer/Head Course Assistant, The Modern Internet**  
 CS 249i, Stanford University, Instructor: Prof. Zakir Durumeric
- Fall 2022 **Lecturer/Head Course Assistant, Topics in Computer and Network Security**  
 CS 356, Stanford University, Instructor: Prof. Zakir Durumeric
- Spring 2019 **Teaching Assistant, Building Real Systems (Car Lab)**  
 ELE 302, Princeton University, Instructor: Prof. Jeff Thompson
- Fall 2018 **Teaching Assistant, Operating Systems**  
 COS 318, Princeton University, Instructor: Prof. Jaswinder Singh
- Fall 2017 **Teaching Assistant, Contemporary Logic Design**  
 ELE 206/COS 306, Princeton University, Instructor: Prof. 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 Thea Rossman (→ Stanford Ph.D.), Michelina Hanlon (→ UCSD Ph.D.), Ihyun Nam  
 (→ Stanford Ph.D.), Anna Ascheman
- 2022 Jerry Chen, Laura Bauman, George Hosono (→ Georgia Tech Ph.D.), Daniel Rebelsky
- 2021 Fengchen Gong (→ Princeton Ph.D.), Gordon Martinez-Piedra

## Service

### **Artifact Committee**

USENIX Symposium on Networked Systems Design and Implementation (NSDI), 2026

### **Subreviewer**

ACM Special Interest Group on Data Communications (SIGCOMM), 2024

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](http://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, awarded to the top senior thesis in the engineering department.

### **Hisashi Kobayashi Prize**

*Princeton University Department of Electrical Engineering, 2019*

For an outstanding record in the broad field of computing.