

MIKE WONG

mikedwong@cs.princeton.edu \diamond <https://michaeldwong.github.io>

RESEARCH INTERESTS

Computer systems and networks, program analysis, ML+systems, video analytics

EDUCATION

Princeton University *Aug 2021 – May 2026 (expected)*
Ph.D. in Computer Science
Advisor: Ravi Netravali

New York University *Aug 2015 – Dec 2019*
B.A. in Computer Science

EXPERIENCE

Graduate Research Assistant, Princeton University *Aug 2021 - Present*
Advisor: Ravi Netravali

Research Intern, Microsoft Research *June 2022 - Aug 2022*
Networking Research Group

Computer Scientist, National Security Agency *Feb 2020 - Aug 2021*

Research Assistant, Rutgers University *June 2020 - Jan 2021*
Advisor: Srinivas Narayana

Research Assistant, Courant Institute of Mathematical Sciences *May 2019 - June 2020*
Advisor: Anirudh Sivaraman

Computer Science Co-op, National Security Agency *Aug 2016 - Dec 2019*

PUBLICATIONS

Peer-Reviewed Conference Papers

- MadEye: Boosting Live Video Analytics Accuracy with Adaptive Camera Configurations**
Mike Wong, Murali Ramanujam, Guha Balakrishnan, Ravi Netravali
USENIX NSDI 2024 (to appear)
[Preprint](#)
- NetVigil: Robust and Low-Cost Anomaly Detection for East-West Data Center Security**
Kevin Hsieh*, Mike Wong*, Santiago Segarra, Sathiya Kumaran Mani, Trevor Eberl, Anatolii Panasyuk, Ravi Netravali, Ranveer Chandra, Srikanth Kandula (* equal contribution)
USENIX NSDI 2024 (to appear)
[Preprint](#)
- Marvolo: Programmatic Data Augmentation for Practical ML-Driven Malware Detection**
Mike Wong, Edward Raff, James Holt, Ravi Netravali
ECML PKDD 2023
Previous version in AI4Cyber/MLHat at KDD 2022
[Paper](#)
- Synthesizing Safe and Efficient Kernel Extensions for Packet Processing**
Qiongwen Xu, Michael D. Wong, Tanvi Wagle, Srinivas Narayana, Anirudh Sivaraman
ACM SIGCOMM 2021
Also accepted as a talk to the BPF & Networking Summit at Linux Plumbers Conference 2021
[Paper](#)

5. **Testing Compilers for Programmable Switches Through Switch Hardware Simulation**

Michael D. Wong, Aatish Kishan Varma, Anirudh Sivaraman

ACM CoNEXT 2020

[Paper](#)

6. **Switch Code Generation Using Program Synthesis**

Xiangyu Gao, Taegyun Kim, **Michael D. Wong**, Divya Raghunathan, Aatish Kishan Varma,
Pravein Govindan Kannan, Anirudh Sivaraman, Srinivas Narayana, Aarti Gupta

ACM SIGCOMM 2020

[Paper](#)

TEACHING

Teaching Assistant, COS 316: Principles of Computer System Design

Aug 2023 - Dec 2023

Teaching Assistant, COS 561: Advanced Computer Networks

Jan 2023 - May 2023

AWARDS

Ross Fellowship (declined), Purdue University

Feb 2021

University Honors Scholar, New York University

Dec 2019

U.S. Air Force ROTC Scholarship, U.S. Air Force

May 2015