

# Weifan Jiang

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RESEARCH INTERESTS      I am broadly interested in computer systems research, including computer networks and security. I am also interested in applying machine learning techniques to solve system-related problems.

EDUCATION      **Harvard University**, Boston, MA      **Aug. 2021 – Present**  
Ph.D. student in Computer Science  
GPA 4.0/4 (in progress)  
Advised by Prof. Minlan Yu

**Columbia University**, New York, NY      **Aug. 2019 – May 2021**  
M.S. in Computer Science  
GPA 4.0/4  
Advised by Prof. Suman Jana and Prof. Ethan Katz-Bassett  
Thesis: *Benefitting Internet users with secure machine learning and Internet measurement techniques*

**University of Washington**, Seattle, WA      **Sep. 2015 – Jun. 2019**  
B.S. with double majors in Computer Science; Applied and Computational Mathematical Sciences (discrete math and algorithms option)  
GPA 3.75/4  
Exchange student to the University of Western Australia in Summer 2017

PUBLICATIONS (PAPERS)      **Towards a Traffic Map of the Internet: Connecting the Dots between Popular Services and Users**  
Thomas Koch, Weifan Jiang, Tao Luo, Petros Gigis, Yunfan Zhang, Kevin Vermeulen, Emile Aben, Matt Calder, Ethan Katz-Bassett, Lefteris Manassakis, Georgios Smaragdakis, Narseo Vallina-Rodriguez  
*ACM HotNets 2021*

**Towards Identifying Networks with Internet Clients Using Public Data**  
Weifan Jiang\*, Tao Luo\*, Thomas Koch, Yunfan Zhang, Ethan Katz-Bassett, Matt Calder  
(\* indicates primary authors)  
*ACM IMC 2021*

**Cost-Aware Robust Tree Ensembles for Security Applications**  
Yizheng Chen, Shiqi Wang, Weifan Jiang, Asaf Cidon, Suman Jana  
*USENIX Security 2021*

**Cloud Provider Connectivity in the Flat Internet**  
Todd Arnold, Jia He, Weifan Jiang, Matt Calder, Italo Cunha, Vasileios Giotsas, Ethan Katz-Bassett  
*ACM IMC 2020*

PUBLICATIONS (OTHERS)      **Poster: Footprint and Performance of Large Cloud Networks**  
Jia He, Weifan Jiang, Ege Gürmeriçliler, Georgia Essig, Arpit Gupta, Matt Calder, Vasileios Giotsas, Italo Cunha, Ethan Katz-Bassett, Todd Arnold  
*N2Women Workshop 2020, Runner-up for the Best Poster Award*

**Irrigation Detection by Car: Computer Vision and Sensing for the Detection and Geolocation of Irrigated and Non-irrigated Farmland**  
 Weifan Jiang, Vivek Kumar, Nikhil Mehta, Jack Bott, Vijay Modi  
*IEEE GHTC 2020*

WORK  
EXPERIENCE

**PhD SWE Intern**  
 May 2022 – present

Google LLC  
 Sunnyvale, CA

**Software Engineering Intern**  
 May 2020 – Aug. 2020, May 2021 – Jul. 2021  
 Team: Amazon Live

Amazon.com, Inc.  
 New York, NY

**Software Engineering Intern**  
 Jun. 2018 – Aug. 2018, Jun. 2019 – Aug. 2019  
 Team: Elastic Compute Cloud (EC2) Networking, Virtual Private Cloud

Amazon Web Services, Inc.  
 Seattle, WA

TALKS AND  
PRESENTATIONS

**Towards Identifying Networks with Internet Clients Using Public Data**

Academic and NREN Session, RIPE 83, Virtual

Nov. 15, 2021

ACM IMC 2021, Virtual

Nov. 4, 2021

Columbia Systems Seminar, Virtual

Oct. 14, 2021

**Irrigation Detection by Car: Computer Vision and Sensing for the Detection and Geolocation of Irrigated and Non-irrigated Farmland**  
 Co-presented with Jack Bott, IEEE GHTC 2020, Virtual

Oct. 31, 2020

TEACHING

**CSOR 4231: Analysis of Algorithms I**, Columbia University  
 Graduate Course Assistant, Fall 2020

**CSE 331: Software Design and Implementation**, University of Washington  
 Undergraduate Teaching Assistant, Winter 2018, Spring 2018

SERVICES

**External Reviewer**, NSDI'22