Weifan Jiang

https://weifanjiang.github.io/ Email: weifanjiang@g.harvard.edu
SEC 4.429, 150 Western Ave, Boston, MA 02134 Phone: (+1) 952-393-3854

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

Industry Experience

Software Engineering Intern — Amazon.com, Inc.
May 2020 – Aug. 2020, May 2021 – Jul. 2021 — New York, NY
Team: Amazon Live

Software Engineering Intern — Amazon Web Services, Inc.
Jun. 2018 – Aug. 2018, Jun. 2019 – Aug. 2019 — Seattle, WA
Team: Elastic Compute Cloud (EC2) Networking, Virtual Private Cloud

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