Zhiying Xu

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EDUCATION

Harvard University Cambridge, MA
Ph.D. in Computer Science, Advisor: Minlan Yu 2018 — Current

Shanghai Jiao Tong University Shanghai, CN
B.S. in Information Engineering, GPA: 3.85/4.00 2014 — 2018

WORK EXPERIENCE

Google Sunnyvale, CA
Software Engineering Intern, Host: Tae Jun Ham Summer 2023

Microsoft Research Redmond, WA
Research Intern, Mentor: Francis Yan Summer 2022

PUBLICATIONS

[1] **Zhiying Xu**, Francis Yan, Rachee Singh, Justin Chiu, Alexander Rush, and Minlan Yu. "Teal: Learning-Accelerated Optimization of WAN Traffic Engineering". In: *SIGCOMM*. ACM, 2023.

[2] **Zhiying Xu**, Sivaramakrishnan Ramanathan, Alexander Rush, Jelena Mirkovic, and Minlan Yu. "Xatu: Boosting Existing DDoS Detection Systems Using Auxiliary Signals". In: *CoNEXT*. ACM, 2022.

[3] Jiawei Zhou, **Zhiying Xu**, Alexander Rush, and Minlan Yu. "Automating Botnet Detection with Graph Neural Networks". In: *AutoML Workshop of MLSys Conference*. ACM, 2020.

[4] Luoyi Fu, Jiasheng Xu, Shan Qu, **Zhiying Xu**, Xinbing Wang, and Guihai Chen. "Seeking the Truth in a Decentralized Manner". In: *Transactions on Networking*. IEEE/ACM, 2021.

[5] Luoyi Fu, Xinzhe Fu, Zesen Zhang, **Zhiying Xu**, Xudong Wu, Xinbing Wang, and Songwu Lu. "Joint Optimization of Multicast Energy in Delay-constrained Mobile Wireless Networks". In: *Transactions on Networking*. IEEE/ACM, 2018.

[6] Xinzhe Fu, **Zhiying Xu**, Qianyang Peng, Jie You, Luoyi Fu, Xinbing Wang, and Songwu Lu. "ConMap: A Novel Framework for Optimizing Multicast Energy in Delay-constrained Mobile Wireless Networks". In: *ACM MobiHoc*. ACM, 2017.

[7] Xinzhe Fu, **Zhiying Xu**, Qianyang Peng, Luoyi Fu, and Xinbing Wang. "Complexity vs. Optimality: Unraveling Source-destination Connection in Uncertain Graphs". In: *INFOCOM*. IEEE, 2017.

[8] Luoyi Fu, Xinzhe Fu, **Zhiying Xu**, Qianyang Peng, Xinbing Wang, and Songwu Lu. "Determining Source–destination Connectivity in Uncertain Networks: Modeling and Solutions". In: *Transactions on Networking*. IEEE/ACM, 2017.

[9] Xinzhe Fu, Zhongzhao Hu, **Zhiying Xu**, Luoyi Fu, and Xinbing Wang. "De-anonymization of Networks with Communities: When Quantifications Meet Algorithms". In: *GLOBECOM*. IEEE, 2017.

PATENT

- **Proactive DDoS Detection with Auxiliary Signals** 2021

SKILLS

- **Programming:** C/C++, Python, Verilog, VHDL
- **Tools:** Pytorch, CUDA, FPGA, Cortex-M, MATLAB, LaTeX

TEACHING EXPERIENCE

- **Teaching Assistant** at Harvard University   Spring 2020
  Computing Foundations for Computational Science
- **Teaching Assistant** at Harvard University   Fall 2022
  Advanced Computer Networks

AWARDS

- Harvard Student Recognition of Teaching   2022
- Outstanding Graduates in Shanghai   2018
- National Scholarship(top 0.2%, nationwide)   2015, 2017