

## Xiangfeng Zhu

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CONTACT INFORMATION	650-660-0918 xfzhu@cs.washington.edu	xzhu27.me www.linkedin.com/in/xzhu
RESEARCH INTERESTS	Systems and Networking, with a focus on microservices, service mesh, and application-level networking.	
EDUCATION	<b>University of Washington</b> Ph.D., Computer Science Advisors: Prof. Arvind Krishnamurthy and Prof. Ratul Mahajan <b>University of Michigan, Ann Arbor</b> B.S., Computer Science(with honors) Advisor: Prof. Mosharaf Chowdhury	Expected: June 2026    May 2021
RESEARCH EXPERIENCE	<b>Graduate Research Assistant</b> <b>Systems Lab, University of Washington</b> <b>Advisors:</b> Prof. Arvind Krishnamurthy and Prof. Ratul Mahajan <b>Research Assistant</b> <b>Symbiotic Lab, University of Michigan</b> <b>Advisor:</b> Prof. Mosharaf Chowdhury  <b>Research Assistant</b> <b>Disorderly Lab, UC Santa Cruz</b> <b>Advisor:</b> Prof. Peter Alvaro	Sep. 2021- Now   Dec. 2018 - Aug. 2021  Mar. 2018 - Sep. 2019
PUBLICATIONS	<ol style="list-style-type: none"><li>1. <b>Xiangfeng Zhu</b>, Guozhen She, Bowen Xue, Yu Zhang, Yongsu Zhang, Xuan Kelvin Zou, XiongChun Duan, Peng He, Arvind Krishnamurthy, Matthew Lentz, Danyang Zhuo, Ratul Mahajan, "Dissecting Overheads of Service Mesh Sidecars", <i>Proceedings of the 14th Symposium on Cloud Computing (SoCC 2023)</i>, Santa Cruz, CA, 2023</li><li>2. Fan Lai, Yinwei Dai, Sanjay S. Singapuram, Jiachen Liu, <b>Xiangfeng Zhu</b>, Harsha Madhyastha, Mosharaf Chowdhury, "FedScale: Benchmarking Model and System Performance of Federated Learning at Scale", <i>Proceedings of the 39th International Conference on Machine Learning (ICML 2022)</i>, Baltimore, MD, 2022</li><li>3. Sebastian Burckhardt, Badrish Chandramouli, Chris Gillum, David Justo, Konstantinos Kallas, Connor McMahon, Christopher S. Meiklejohn, <b>Xiangfeng Zhu</b>, "Netherite: Efficient and Reliable Execution for Stateful Serverless Applications", <i>Proceedings of the 48th International Conference on Very Large Databases (VLDB 2022)</i>, Sydney, Australia, 2022</li><li>4. Fan Lai, Yinwei Dai, <b>Xiangfeng Zhu</b>, Harsha Madhyastha, Mosharaf Chowdhury, "FedScale: Benchmarking Model and System Performance of Federated Learning", <i>Proceedings of the First Workshop on Systems Challenges in Reliable and Secure Federated Learning (ResilientFL 2021)</i>, Virtual, 2021, <b>Best Paper Award</b></li></ol>	

5. Fan Lai, **Xiangfeng Zhu**, Harsha Madhyastha, Mosharaf Chowdhury, "Oort: Informed Participant Selection for Scalable Federated Learning", *Proceedings of the 15th USENIX Symposium on Operating Systems Design and Implementation (OSDI 2021)*, Virtual, 2021 (Acceptance Rate: 18.79%), **Distinguished Artifact Award**
6. Fan Lai, Jie You, **Xiangfeng Zhu**, Harsha Madhyastha, Mosharaf Chowdhury, "Sol: Fast Distributed Computation Over Slow Networks", *Proceedings of the 17th USENIX Symposium on Networked Systems Design and Implementation (NSDI 2020)*, Santa Clara, CA, 2020 (Acceptance Rate: 18.36%)
7. Lennart Oldenburg, **Xiangfeng Zhu**, Kamala Ramasubramanian, Peter Alvaro, "Fixed It For You: Protocol Repair Using Lineage Graphs", *Proceedings of the 9th biennial Conference on Innovative Data Systems Research (CIDR 2019)*, Asilomar, CA, 2019

WORK EXPERIENCE	<b>Uber</b> <i>PhD Software Engineer Intern, Service Mesh Team</i> Mentor: Dr. Hongqiang (Harry) Liu	June 2023 - Sep. 2023
	<b>VMware Research</b> <i>Research Intern</i> Mentor: Dr. Radhika Niranjana Mysore	June 2022 - Sep. 2022
	<b>Microsoft Research</b> <i>Research Intern , RiSE Group</i> Mentor: Dr. Sebastian Burckhardt	May 2021 - Aug. 2021
	<b>Databricks</b> <i>Software Engineer Intern , Serverless Team</i>	May 2020 - Aug. 2020
	<b>Dropbox</b> <i>Software Engineer Intern , Filesystem Team</i>	May 2019 - Aug. 2019
PROFESSIONAL ACTIVITIES	<ul style="list-style-type: none"> <li>• <b>Virtual Chair:</b> WORDS 2022</li> <li>• <b>Program Committee:</b> NeurIPS(Datasets and Benchmarks Track) 2022, EuroSys 2022 (Shadow PC), IMC 2022 (Shadow PC)</li> <li>• <b>Student Volunteer:</b> SoCC 2021, SIGCOMM 2021</li> <li>• <b>Artifact Evaluation Committee:</b> SIGCOMM 2021, OSDI 2021, EuroSys 2021, JSys 2021</li> </ul>	
OTHER ACTIVITIES	<ul style="list-style-type: none"> <li>• <b>Area Chair (System):</b> UW CSE PhD Admissions Committee, 2022</li> <li>• <b>Reader:</b> UW CSE PhD Admissions Committee, 2021</li> <li>• <b>Mentor:</b> UW CSE PhD Pre-Application Mentorship Service (PAMS), 2021</li> </ul>	
HONORS & AWARDS	<ul style="list-style-type: none"> <li>• <b>Best Paper Award</b>, ACM SOSP ResilientFL, 2021 For <i>FedScale: Benchmarking Model and System Performance of Federated Learning</i></li> <li>• <b>Distinguished Artifact Award</b>, USENIX OSDI, 2021 For <i>Oort: Efficient Federated Learning via Guided Participant Selection</i></li> <li>• <b>Allen School Computer Science &amp; Engineering Research Fellowship</b>, 2021</li> <li>• <b>Conference Student Grant</b>, HotNets '22, OSDI '20, FAST '21, NSDI '21, OSDI '21</li> </ul>	

## MENTORING

- **Banruo Liu**, Tsinghua University, 2022 - Now
  - Project: Application Defined Networks
- **Yuyao Wang**, Nanjing University, 2023 - Now
  - Project: Application Defined Networks
- **Fenet Guyassa**, Bonney Lake High School, 2023 - Now
  - Project: Characterizing Service Mesh Overheads
- **Ami Oka**, University of Washington, 2023 - 2023
  - Project: Characterizing Service Mesh Overheads