

EDUCATION	University of Michigan, Ann Arbor	Expected: May 2021
	B.S., Computer Science(with honors)	
	Thesis: Toward Real-time Systems for Vision and Language Applications	

Fast Distributed Computation Over Slow Networks

- ### Participant Selection for Federated Learning

- System for complex vision and language applications

- Undergraduate Researcher
Disorderly Lab, UC Santa Cruz
Advisor: Prof. Peter Alvaro

Protocol Repair Using Lineage Graphs

- Co-Designed a debugging approach for distributed systems based on analysis of data provenance obtained during system executions
- Co-Developed a standalone prototype Debugger Nemo and Evaluated it on the TaxDC collection of real-world bugs from large-scale distributed systems (e.g., Hadoop and HBase)

Undergraduate Researcher Mar. 2017 - Aug. 2017
Storage System Research Center, UC Santa Cruz
Worked under: Prof. Darrell D. E. Long and Prof. Ethan L. Miller

Rogue Cell tower(IMSI Catcher) detector

	<ul style="list-style-type: none"> • Wrote a design document with three lab partners detailing the project and future work. • Co-Designed an algorithm to pinpoint the location of IMSI Catchers based on received signal strength (RSS) and signal spike 	
PUBLICATIONS	<ol style="list-style-type: none"> 1. Fan Lai, Xiangfeng Zhu, Harsha Madhyastha, Mosharaf Chowdhury, "Oort: Informed Participant Selection for Scalable Federated Learning", arXiv:2010.06081, <i>Submitted to OSDI' 21</i> 2. Fan Lai, Jie You, Xiangfeng Zhu, Harsha Madhyastha, Mosharaf Chowdhury, "Sol: Fast Distributed Computation Over Slow Networks", <i>Proceedings of the 17th USENIX Symposium on Networked Systems Design and Implementation (NSDI 2020)</i>, Santa Clara, CA, 2020 (Acceptance Rate: 18.36%) 3. Lennart Oldenburg, Xiangfeng Zhu, Kamala Ramasubramanian, Peter Alvaro, "Fixed It For You: Protocol Repair Using Lineage Graphs", <i>Proceedings of the 9th biennial Conference on Innovative Data Systems Research (CIDR 19)</i>, Asilomar, CA, 2019 	
WORK EXPERIENCE	Databricks <i>Software Engineer Intern</i> , Serverless Team	May 2020 - Aug. 2020
	Dropbox <i>Software Engineer Intern</i> , Filesystem Team	May 2019 - Aug. 2019
PROFESSIONAL ACTIVITIES	<ul style="list-style-type: none"> • EuroSys: Artifact Evaluation Committee, 2021 • Journal of Systems Research (JSys): Artifact Evaluation Board, 2021 	
OTHER EXPERIENCE	<ul style="list-style-type: none"> • CMPE107: Probability and Statistics, UC Santa Cruz, Grader Spring 2018 • CMPS12B: Introduction to Data Structures, UC Santa Cruz, Learning Assistant Spring 2018, Winter 2018 • CMPS101: Algorithms and Abstract Data Types, UC Santa Cruz, Learning Assistant Fall 2017, Winter 2018 	
AWARDS	<ul style="list-style-type: none"> • Conference Student Grant, OSDI' 20, FAST' 21 • Dean's Honor List: Fall 2016, Winter 2017, Spring 2017, Winter 2018, Spring 2018 	
SKILLS	<ul style="list-style-type: none"> • Programming: Java, C, C++, Python, Scala, Bash, SQL, HTML, CSS, \LaTeX • Tools: Perf, GDB, Valgrind, Make, Git, Vim, Docker 	
MISCELLANEOUS	<ul style="list-style-type: none"> • Personal Blog: xzhu0027.gitbook.io/blog/ 	