

Yanzi Zhu

CONTACT INFORMATION	Searle 203, University of Chicago Chicago, IL 60636	1-520-477-8020 yanzi at ucsb.edu
INTERESTS	Wireless (mmWave) systems & networks; data analysis; mobile sensing & security	
SKILLS	System design, data analysis, networking, scripting (Python, Matlab, Java, HTML)	
EDUCATION	University of California, Santa Barbara , Santa Barbara, CA M.S. and Ph.D., Computer Science, <i>Expected</i> : Summer 2019 <ul style="list-style-type: none">• Advisors: Prof. Ben Y. Zhao and Prof. Haitao (Heather) Zheng University of Minnesota , Minneapolis, MN B.S., Electrical Engineering (<i>High Distinction</i>), May 2014 <ul style="list-style-type: none">• Advisor: Prof. Kiarash Bazargan	
RESEARCH EXPERIENCE	UChicago SAND Laboratory , Chicago, IL	Sept. 2014 — present <ul style="list-style-type: none">• Implemented a mobile energy-saving scheme by network stack offloading• Designed a single-device mmWave mobile imaging system to detect the object's location, surface boundary, curvature, and material, while tolerating trajectory noise UMN FPGA Laboratory , Minneapolis, MN
		Nov. 2012 — May 2014 <ul style="list-style-type: none">• Developed a computational method named <i>binary stochastic</i> that maintains high fault tolerance and low computing latency
PUBLICATIONS	<ol style="list-style-type: none">1. Zhijing Li, Zhujun Xiao, Yanzi Zhu, Irene Pattarachanyakul, Ben Y. Zhao, and Haitao Zheng. "Adversarial Localization against Wireless Cameras." <i>Proceedings of Workshop on Mobile Computing Systems and Applications (HotMobile)</i>, Tempe, AZ, Feb. 2018.2. Yanzi Zhu, Yuanshun Yao, Ben Y. Zhao and Haitao Zheng. "Object Recognition and Navigation using a Single Networking Device." <i>Proceedings of International Conference on Mobile Systems, Applications, and Services (MobiSys)</i>, Niagara Falls, NY, Jun. 2017.3. Zhijing Li, Ana Nika, Xinyi Zhang, Yanzi Zhu, Yuanshun Yao, Ben Y. Zhao and Haitao Zheng. "Identifying Value in Crowdsourced Wireless Signal Measurements." <i>Proceedings of International Conference on World Wide Web (WWW)</i>, Perth, Australia, Apr. 2017.4. Maryam Eslami Rasekh, Zhinus Marzi, Yanzi Zhu, Upamanyu Madhow and Haitao Zheng. "Noncoherent mmWave Path Tracking." <i>Proceedings of Workshop on Mobile Computing Systems and Applications (HotMobile)</i>, Sonoma, CA, Feb. 2017.5. Yanzi Zhu, Yibo Zhu, Ana Nika, Ben Y. Zhao and Haitao Zheng. "Trimming the Smartphone Network Stack." <i>Proceedings of Workshop on Hot Topics in Networks (HotNets)</i>, Atlanta, GA, Nov. 2016.6. Ana Nika, Zhijing Li, Yanzi Zhu, Yibo Zhu, Ben Y. Zhao, and Haitao Zheng. "Empirical Validation of Commodity Spectrum Monitoring." <i>Proceedings of ACM Conference on Embedded Networked Sensor Systems (SenSys)</i>, Stanford, CA, Nov. 2016.	

7. **Yanzi Zhu**, Yibo Zhu, Ben Y. Zhao and Haitao Zheng. “Reusing 60GHz Radios for Mobile Radar Imaging.” *Proceedings of Annual International Conference on Mobile Computing and Networking (MobiCom)*, Paris, France, Sept. 2015.
8. Yibo Zhu, **Yanzi Zhu**, Zengbin Zhang, Ben Y. Zhao, and Haitao Zheng. “60GHz Mobile Imaging Radar.” *Proceedings of Workshop on Mobile Computing Systems and Applications (HotMobile)*, Santa Fe, NM, Feb. 2015.
9. **Yanzi Zhu**, Peiran Suo, and Kia Bazargan. “Binary Stochastic Implementation of Digital Logic.” *Proceedings of ACM International Symposium on Field Programmable Gate Arrays (FPGA)*, Monterey, CA, Feb. 2014.

AWARDS	Travel Awards	
	<ul style="list-style-type: none"> • Networked Systems Design and Implementation (NSDI) 2015 & 2016 • Mobile Computing and Networking (MobiCom) 2015 & 2016 	
TEACHING EXPERIENCE	Graduate Teaching Assistant	Oct. 2014 — June 2015
	CS 8 Intro to Computer Science	Prof. C.K. Kroc
	CS 16 Problem Solving with Computers	Prof. P. Conrad
	CS 176A Intro to Computer Communication Networks	Prof. B.Y. Zhao
	CS 176C Advanced Topics in Internet Computing	Prof. H. Zheng
INDUSTRY EXPERIENCE	Facebook, Menlo Park, CA	June 2017 — Sept. 2017
	<ul style="list-style-type: none"> • Manager: Djordje Tujkovic • Conducted a machine-learning-oriented diagnosis framework with probing tools (over 150k lines of Python code) for network anomaly detection, root cause analysis, and topology optimization, for the large-scale San Jose network • Designed & applied PHY algorithms to mitigate link-level interference 	
	Facebook, Menlo Park, CA	June 2016 — Sept. 2016
	<ul style="list-style-type: none"> • Manager: Djordje Tujkovic • Performed mmWave measurements and channel analysis for the Terragraph project • Designed a corresponding measurement tool (over 30k lines of Python & C++ code) 	