Weikun Han

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EDUCATION

2016-2018 University of California Los Angeles, CA M.S. in Electrical and Computer Engineering Advised by: Prof. Lei He

2011-2016 **Iowa State University, IA** B.S. in Electrical Engineering Advised by: Prof. Liang Dong

EXPERIENCE

Jul. 2020 - present	Oregon State University, Bellevue, WA Research Assistant at CoRIS institute Supervisor: Prof. Euvin Li
	I researched Deep Learning on 3D Point Clouds and proposed Superpixel PCNN to matches the same CNN performance in 2D images of a similar structure
Jan. 2020 - Jun. 2020	Clobotics Global, Bellevue, WA Computer Vision Scientist II I researched the Fine-Grained Image Classification task to improve model performance in classifying thousands of indistinguishable retail goods
Jan. 2020 - Jun. 2020	<i>Machine Learning Engineer II</i> I implemented an Active Learning Pipeline for the Machine Learning System that enables interactively query human to label necessary training data
Jan. 2020 - Jun. 2020	Software Development Engineer II I collaborated with the team to design and develop the Data Operations Platform that enables non-technical persons to operate the Machine Learning System
Oct. 2018 - Jan. 2020	<i>Computer Vision Scientist</i> I researched the Object Detection task to improve model performance on many disorganized product display scenes in the offline retail market
Oct. 2018 - Jan. 2020	<i>Machine Learning Engineer</i> I implemented the Ceiling Analysis Dashboard for the Machine Learning System that enables real-time model performance monitoring
Oct. 2018 - Jan. 2020	Software Development Engineer I collaborated with the team to design and develop a Product Search Website that enables people can retrieve new products in streaming data
Aug. 2018 - Oct. 2020	<i>Research Intern</i> I researched the Image Clustering task to design and develop an Image Retrieval System that can discover new products in the market

	University of California Los Angeles, CA
Mar. 2018 - Jun. 2018	Graduate Research Assistant at VCLA lab
	Supervisor: Prof. Song-Chun Zhu
	I researched Deep Learning Compression to reduce model computation
	cost and storage size without regression in model performance
Sep. 2016 - Sep. 2017	Graduate Research Assistant at Design Automation Laboratory Supervisor: Prof. Lei He
	 I researched Adversarial Deep Learning to design and develop the Voice Autoencoder to estimate uncertainty and improve robustness I worked on Embedded Software Validation to design and develop
	Iowa State University, IA
Aug. 2013 - Apr. 2016	Undergraduate Research Assistant at Laboratory for MEMS and Biochip Supervisor: Prof. Liang Dong
	 I researched Nanotechnology to design, manufacture, and test nano-scale structures devices by operating micro-fabrication laboratory equipment I co-authored three publications in major journals and two publications in major conferences, and one paper got the best student paper award

AWARDS AND HONORS

2017	Best Student Paper Award		
	The 17th IEEE International Conference on Nanotechnology		

- 2015 Magna Cum Laude Honor Iowa State University Ranked 1 st in a class of 2015 Electrical Engineering graduates (Winter)
- 2013 2015 **Dean's List Honor** Iowa State University Given to top ranked students

PUBLICATIONS

Journal Publications

- Q. Wang, <u>W. Han</u>, Y. Wang, M. Lu, and L. Dong, "Tape nanolithography: a rapid and simple method for fabricating flexible, wearable nanophotonic devices," *Microsystems and Nanengineering*, 4, 31 (2018)
- [2] Y. Wang, L. Liu, Q. Wang, <u>W. Han</u>, M. Lu and L. Dong , "Strain-tunable plasmonic crystal using elevated nanodisks with polarization-dependent characteristics," *Applied Physics Letters*, 108, 071110 (2016)
- [3] Q. Wang, <u>W. Han</u>, P. Liu, L Dong , "Electrically tunable quasi-3-D mushroom plasmonic crystal," *Journal of Lightwave Technology*, 34, 2175-2181 (2016)

Conference Publications

- [4] Q. Wang, <u>W. Han</u>, Y. Wang, M. Lu and L. Dong, "Tape-based flexible metallic and dielectric nanophotonic devices and metamaterials," *2017 IEEE 17th International Conference on Nanotechnology (IEEE-NANO)*
- [5] Y. Wang, L. Liu, Q. Wang, <u>W. Han</u>, M. Lu and L. Dong, "Strain-tunable two-dimensional plasmonic crystals," 2015 Photonics Conference (IPC)

TEACHING

Iowa State University, IA Teacher Assistant, EE 224: Signals and Systems I Enrollment: 40 Fall 2014