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

Clobotics Global, Bellevue, WA

Jan. 2020 - Present — *Computer Vision Scientist II*
I conducted research in fine-grained image classification task to improve model performance on classifying thousands of indistinguishable retail goods

Jan. 2020 - Present — *Machine Learning Engineer II*
I implemented the active learning pipeline for the machine learning system that enables interactively query human to label necessary training data

Jan. 2020 - Present — *Software Development Engineer II*
I collaborated with the team to design and develop the data operations platform that enables non-technical persons to operate machine learning system

Oct. 2018 - Jan. 2020 — *Computer Vision Scientist*
I conducted research in object detection task to improve model performance on many disorganized product display scenes in the offline retail market

Oct. 2018 - Jan. 2020 — *Machine Learning Engineer*
I implemented the ceiling analysis dashboard for the machine learning system that enable real-time model performance monitoring

Oct. 2018 - Jan. 2020 — *Software Development Engineer*
I collaborated with the team to design and develop product search website that enables people can retrieve new products in streaming data

Aug. 2018 - Oct. 2020 — *Research Intern*
I conducted research in fine-grained image clustering task to design and develop a 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*
Mentor: Prof. Song-Chun Zhu
I conducted research in 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*
Mentor: Prof. Lei He
I conducted research in adversarial learning to design and develop the voice autoencoder that help model to estimate uncertainty and improve robustness
I worked on embedded software validation to design and develop a framework into the symbolic execution tool by using the LLVM compiler

Iowa State University, IA

Aug. 2013 - Apr. 2016 | *Undergraduate Research Assistant, Laboratory for MEMS and Biochip*
Mentor: Prof. Liang Dong
I conducted research in nanotechnology to design, manufacture, and test nano-scale structures devices by operating micro-fabrication laboratory equipment
I co-authored 3 publications in major journals and 2 publication in major conferences that one paper got 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

[1] Q. Wang, W. Han, 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, W. Han, 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, W. Han, 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, W. Han, 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, W. Han, M. Lu and L. Dong, "Strain-tunable two-dimensional plasmonic crystals," *2015 Photonics Conference (IPC)*

Teaching

Iowa State University, IA

Fall 2014 | *Teacher Assistant, EE 224: Signals and Systems I*
Enrollment: 40