

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

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| JUL. 2020 - PRESENT | Oregon State University, Corvallis, OR
<i>Research Assistant at CoRIS institute</i>
<i>Supervisor: Prof. Fuxin Li</i>
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
<i>Computer Vision Scientist and Machine Learning Engineer II</i> <ul style="list-style-type: none">• I researched the Fine-Grained Image Classification task to improve model performance in classifying thousands of indistinguishable retail goods• I implemented an Active Learning pipeline for the Machine Learning system that enables interactively query human to label necessary training data• 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 and Machine Learning Engineer</i> <ul style="list-style-type: none">• I researched the Object Detection task to improve model performance on many disorganized product display scenes in the offline retail market• I implemented an Image Retrieval system to speed up data collection that reduces the model iteration period from a month to days after launching new products• 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 |
| MAR. 2018 - JUL. 2018 | University of California Los Angeles, CA
<i>Graduate Research Assistant at VCLA lab</i>
<i>Supervisor: Prof. Song-Chun Zhu</i>
I researched Deep Learning Acceleration and Compression to reduce model computation cost and storage size without regression in model performance |

DEC. 2016 - MAR. 2018	Graduate Research Assistant at Design Automation Laboratory Supervisor: Prof. Lei He <ul style="list-style-type: none"> • 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 a framework into the symbolic execution tool using the LLVM compiler
JUN. 2014 - MAY 2016	Iowa State University, IA Undergraduate Research Assistant at Laboratory for MEMS and Biochip Supervisor: Prof. Liang Dong <ul style="list-style-type: none"> • 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

- [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