HANG ZHANG

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EDUCATION

Rutgers University *Oct 2017*
Ph.D. in Electrical and Computer Engineering
Advisor: Prof. Kristin Dana
Research Interest: Computer Vision
Current GPA: 3.9/4.0

Southeast University (Nanjing, China) *June 2013*
B.S. in School of Automation
Advisor: Junyang - Li
Outstanding Undergraduate Thesis 2013 - School of Automation, Southeast University

EXPERIENCE

Amazon AI *Jan 2018 - Now*
Applied Scientist II *East Palo Alto, CA*

· Working with Mu Li in Amazon AI team.

Computer Vision Lab (Rutgers University) *January 2014 - Oct 2017*
Graduate Research and Teaching Assistant *New Brunswick, NJ*

· Material and texture modeling using deep learning algorithms. PhD Advisor: Prof. Kristin Dana

Amazon Lab 126 *May 2017 - August 2017*
Applied Scientist Intern *Cupertino, CA*

· Computer vision algorithm team.

NVIDIA *May 2016 - August 2016*
Deep learning Research Intern *Holmdel, NJ*

· Autonomous Driving Group.

Image Processing & Machine Vision Lab (SEU) *June 2012 - June 2013*
Research Assistant *Nanjing, China*

· Road lane detection and segmentation using texture features. (Advisor: Prof. Junyang-Li)

TECHNICAL AWARDS

Doctoral Consortium Travel Award (CVPR 2017) 2017
TA/GA Professional Development Fund Award (Rutgers) 2016
Outstanding Undergraduate Thesis Award (SEU, China) 2013
Phoenix Contact Fellowship (SEU, China) 2012

TECHNICAL STRENGTHS

Interested Area	Deep Learning, Computer Vision.
Programming Languages	C++, CUDA, Python, Lua, Matlab
Deep Learning Toolbox	MXNet, PyTorch, Torch

TEACHING EXPERIENCE

Computer Architecture & Assembly Language Lab Spring 2016&17
Teaching Assistant

· Assisted in teaching Computer Architecture and Assembly Language Lab, including revising lab tutorials, managing course website, supervising the experiments and grading the lab reports.

Robotics & Computer Vision Fall 2014
Teaching Assistant

· Assisted in teaching the Robotics and Computer Vision class under the supervision of Prof. Kristin Dana. This course includes common computer vision techniques such as image transformations, RANSAC, camera calibration, motion detection, and face recognition.

PUBLICATIONS

1. **Hang Zhang**, Kristin Dana, Jianping Shi, Zhongyue Zhang, Xiaogang Wang, Ambrish Tyagi, and Amit Agrawal. Context encoding for semantic segmentation. In *The IEEE Conference on Computer Vision and Pattern Recognition (***CVPR)**, June 2018
2. Jia Xue, **Hang Zhang**, and Kristin Dana. Deep texture manifold for ground terrain recognition. In *The IEEE Conference on Computer Vision and Pattern Recognition (***CVPR***)*, June 2018
3. **Hang Zhang**, Jia Xue, and Kristin Dana. Deep ten: Texture encoding network. In *The IEEE Conference on Computer Vision and Pattern Recognition (***CVPR***)*, July 2017
4. Jia Xue, **Hang Zhang**, Kristin Dana, and Ko Nishino. Differential angular imaging for material recognition. In *The IEEE Conference on Computer Vision and Pattern Recognition (***CVPR***)*, July 2017
5. **Hang Zhang** and Kristin Dana. Multi-style Generative Network for Real-time Transfer. *arXiv preprint*, 2017
6. **Hang Zhang**, Kristin Dana, and Ko Nishino. Friction from reflectance: Deep reflectance codes for predicting physical surface properties from one-shot in-field reflectance. In *European Conference on Computer Vision (***ECCV***)*, pages 808–824. Springer, 2016
7. **Hang Zhang**, Kristin Dana, and Ko Nishino. Reflectance hashing for material recognition. *IEEE Conference on Computer Vision and Pattern Recognition (***CVPR***)*, pages 3071–3080, 2015

PROFESSIONAL SERVICES

Reviewer for Journals:
Computer Vision and Image Understanding (CVIU)
Reviewer for Conferences:
IEEE Computer Vision and Pattern Recognition (CVPR)
IEEE Winter Conference on Applications of Computer Vision (WACV)
European Conference on Computer Vision (ECCV)
SIGGRAPH