

CURRENT STATUS Applied Scientist, Amazon Web Service Rekognition.

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INFORMATION *Page:* <https://zhopper.github.io>

EDUCATION **The University of Maryland - College Park (UMD)** **Sep. 2013 - Aug. 2019**
 • PhD candidate Dept. of Computer Science
 • Adviser: Prof. David W. Jacobs
 • Area of Study: Computer Vision
The University of Hong Kong (HKU) **Sep. 2010 - Nov. 2012**
 • M.Phil. Dept. of Computer Science
 • Adviser: Dr. Kwan-Yee K. Wong
 • Area of Study: Computer Vision
The University of Science and Technology of China (USTC) **Sep. 2006 - Jun. 2010**
 • B.Eng Dept. of Electronic Engineering and Information Science

RESEARCH Computer Vision: lighting estimation from faces and natural indoor scene; network compression.
INTERESTS

RESEARCH **Intern at Adobe Research** **May - Aug. 2018**
EXPERIENCE • Mentor: Sunil Hadap
 • Topic: Deep portrait relighting.
Intern at Media Analytics group NEC Labs America **May - Aug. 2017**
 • Mentor: Quoc-Huy Tran and Manmohan Chandraker
 • Topic: Learning affordance correspondence through human object interaction.
Intern at National ICT (NICTA) Australia **Jul. - Oct. 2015**
 • Mentor: Jose M. Alvarez and Fatih Porikli
 • Topic: Compressing deep neural networks.
Research Assistant at The University of Hong Kong **Nov. 2012 - Jul. 2013**
 • Adviser: Dr. Kwan-Yee K. Wong
 • Topic: Face sketch synthesis.

REFeree **Journal:** IEEE Transactions on Signal Processing. IEEE Transactions on Image Processing.
conference: ICCV, CVPR, AAAI, WACV, ACCV

SELECTED 1. **Hao Zhou**, Sunil Hadap, Kalyan Sunkavalli, David W Jacobs. Deep Single-Image Portrait Relighting.
PUBLICATIONS IEEE *International Conference on Computer Vision (ICCV)*, 2019.
2. **Hao Zhou**, Yu, Xiang, David W Jacobs. GLoSH: Global-Local Spherical Harmonics for Intrinsic Image Decomposition. IEEE *International Conference on Computer Vision (ICCV)*, 2019. (Oral)
3. **Hao Zhou***, Jin Sun*, Yaser Yacoob, David W Jacobs. Label Denoising Adversarial Network (LDAN) for Inverse Lighting of Face Images. IEEE *International Conference on Computer Vision and Pattern Recognition (CVPR)*, 2018. (spotlight, * means equal contribution)
4. Hui Ding, **Hao Zhou**, Shaohua Kevin Zhou, Rama Chellappa. A Deep Cascade Network for Unaligned Face Attribute Classification. *Association for the Advancement of Artificial Intelligence (AAAI)*, 2018. (spotlight)
5. Soumyadip Sengupta, **Hao Zhou**, Walter Forkel, Ronen Basri, Tom Goldstein, David W Jacobs. Solving Uncalibrated Photometric Stereo Using Fewer Images by Jointly Optimizing Low-rank Matrix Completion and Integrability. *Journal of Mathematical Imaging and Vision (JMIV)*, 2018.

6. **Hao Zhou**, Jose M. Alvarez, Fatih Porikli. Less is More: Towards Compact CNNs. *European Conference on Computer Vision (ECCV)*, 2016. (Spotlight)
7. **Hao Zhou**, Torsten Sattler, David W. Jacobs. Evaluating Local Features for Day-Night Matching. *European Conference on Computer Vision workshop (ECCVW)*, 2016.
8. **Hao Zhou**, Zhanghui Kuang, Kwan-Yee K. Wong. Markov Weight Fields for Face Sketch Synthesis. *IEEE International Conference on Computer Vision and Pattern Recognition (CVPR)*, 2012.
9. Zhanghui Kuang, Dirk Schnieders, **Hao Zhou**, Kwan-Yee K. Wong, Yizhou Yu, Bo Peng. Learning Image-Specific Parameters for Interactive Segmentation. *IEEE International Conference on Computer Vision and Pattern Recognition (CVPR)*, 2012.

TEACHING

Teaching Assistant, Dept. of Computer Science, UMD

- CMSC733 Computer Processing of Pictorial Information (Prof. David W. Jacobs) Fall 2014
- CMSC426 Image Processing (Prof. David W. Jacobs) Spring 2014
- CMSC131 Object-Oriented Programming I (Dr. Fawzi Emad and Dr. Evan Golub). Fall 2013

Teaching Assistant, Dept. of Computer Science, HKU

- CSIS0259 Principles of Programming Languages (Dr. C.F. Chong). Fall 2011
- CSIS0234A Computer and Communication Networks (Dr. T.C. Tam). Spring 2011

HONORS & AWARDS

Dean's Fellowship, Dept. of CS, UMD

2013, 2014

Guanghua Scholarship

2009

Weining Gong Scholarship

2008

Outstanding Student Scholarship of USTC, Grade 1

2007

SKILLS

Main Developing Language: Python.

Other Languages: Matlab, C/C++.

Tools: OpenCV, Pytorch.