Xiangyun Zhao

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Education

2017 – **Northwestern University,** Evanston, IL.
Ph.D. in Electrical Engineering and Computer Science
Advisor: Prof. Ying Wu

2014 – 2016 **University of California San Diego,** San Diego, CA.
M.S. in Electrical and Computer Engineering

2010 – 2014 **University of Electronic Science and Technology of China,** Chengdu, China.
B.Eng. in Electrical Information Engineering
GPA: 3.91/4.00. **Rank**: TOP 3%.

Publications and/or Submitted Manuscripts

Xiangyun Zhao, Yi Yang, Feng Zhou, Yingze Bao, Xiao Tan, Yuchen Yuan and Ying Wu. **The title is not disclosed due to anoymous submission**
Under review by *the IEEE Conference on Computer Vision and Pattern Recognition(CVPR) 2019*.

Xiangyun Zhao , Haoxiang Li, Xiaohui Shen, Xiaodan Liang and Ying Wu. **A Modulation Module for Multi-task Learning with Application in Image Retrieval**
Published in *the 15th European Conference on Computer Vision(ECCV) 2018*.

Xiangyun Zhao, Shuang Liang and Yichen Wei. **Pseudo-Mask Augmented Object Detection**
Published in *the IEEE Conference on Computer Vision and Pattern Recognition(CVPR) 2018*.

Xiangyun Zhao , Xiaodan Liang, Luoqi Liu, Teng Li, Yugang Han, Nuno Vasconcelos and Shuicheng Yan. **Peak Piloted Deep Network for Expression Recognition**
Published in *the 14th European Conference on Computer Vision(ECCV) – Amsterdam 2016*.

Yan-Tsung Peng, **Xiangyun Zhao** and Pamela Cosman. **Single underwater image enhancement using depth estimation based on blurriness (Top 10% paper award)**
Published in *IEEE International Conference on Image Processing, ICIP 2015*

References

Ying Wu Professor at EECS department, Northwestern University
Email: yingwu@eecs.northwestern.edu

Shuicheng Yan Assotiate Professor at ECE department, National University of Singapore
Email: eleyans@nus.edu.sg

Yichen Wei Senior Researcher, Microsoft Research
Email: yichenw@microsoft.com

Research Experiences

Sep. 2017 - **Computational Vision Lab,** Northwestern University. Advisor: Prof. Ying Wu
Scene understanding, large-scale object detection, joint modeling of images and text, and machine learning techniques for visual recognition problems

June 2018 - Dec. 2018 **Institute of Deep Learning,** Baidu Research U.S.A. Mentor: Dr. Feng Zhou, Dr. Yi Yang
Worked on attribute recognition. Explored an effective model to improve the learning efficiency with limited training data. **Our work is submitted to CVPR 2019**

June 2017 - Dec. 2017 **Creative Technology Lab,** Adobe Research. Mentor: Dr. Haoxiang Li, Dr. Xiaohui Shen
Worked on multi-task learning and image retrieval. Explored an effective multi-task learning technique to solve the problem that tasks may compete or even distract each other during joint training. **One patent is filed. Our work is published in ECCV 2018**

Apr. 2016 - Dec. 2016 **Visual Computing Group,** Microsoft Research Asia. Mentor: Dr. Yichen Wei.
Worked on object detection and semantic segmentation. Explored an effective weakly instance segmentation to improve object detection with only bounding box annotation. **Our work is published in CVPR 2018**

Oct. 2015 - Apr. 2016 **360 AI Institute,** Qihoo 360. Advisor: Prof. Shuicheng Yan
Worked on face recognition and facial expression recognition. Explored an efficient way to solve profile face recognition and weak expression recognition. **Our work is published in ECCV 2016**

Oct. 2014 - Feb. 2015 **Prof. Cosman's Group,** University of California, San Diego. Advisor: Prof. Pamela Cosman
Worked on image processing and enhancement. Proposed a novel algorithm for underwater image dehaze. **Our work is published in ICIP 2015 and won the top 10% paper award**

Reviewer

Conference CVPR 2019

Journal IEEE Transactions on Pattern Analysis and Machine Intelligence(T-PAMI)

Honors and Awards

Supported University Collaborations Funding by Adobe

Northwestern Ph.D. Fellowship by Northwestern University.

Top 10% Paper Award by ICIP 2015

Excellent Graduate Student for studying abroad by UESTC

1st Class Scholarship for Academic Excellence(5%) by UESTC

Program

Program language: Python(proficient), C++, LaTex and MATLAB. Have experience in Javascript.

Tool: Pytorch(proficient), Tensorflow(proficient), Caffe(proficient), Torch, Theano, MXNET