

# Hexiang Hu

PhD Student in Machine Learning

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## EDUCATION

### University of Southern California

PhD Student (Machine Learning, Computer Vision, NLP)

Supervisor: Prof. Fei Sha

Los Angeles, CA

Jan.2017- Present

### University of California, Los Angeles

PhD Student (Machine Learning, Computer Vision) (**Transfer**)

Supervisor: Prof. Fei Sha

Los Angeles, CA

Sep.2016-Jan.2017

### Simon Fraser University

B.S. in Computer Science (**With Distinction**)

Supervisor: Prof. Greg Mori

Vancouver, BC

Sep.2013-May.2016

### ZHEJIANG University

B.Eng. in Computer Science

Supervisor: Prof. Zicheng Liao

Hangzhou, China

Sep.2011-Jun.2016

### University of California, Los Angeles

Exchange Student

Los Angeles, CA

Aug.2012-Sep.2012

## WORK & RESEARCH EXPERIENCE

### Theoretical and Empirical Data Science Lab

Research Assistant (**Supervisor: Prof. Fei Sha**)

Vision and Language, Transfer Learning, Embedding Learning

Los Angeles, CA

Sep.2016-Present

### Amazon AI

Applied Scientist Intern (**Supervisor: Dr. R. Manmatha & Prof. Deva Ramanan**)

Large-scale Video Analysis with Compressed Videos

Palo Alto, CA

May.2017-Aug.2017

### Megvii (Face++) Technology

Research Scientist Intern (**Supervisor: Yuning Jiang & Dr. Jian Sun**)

Object Detection and Instance Segmentation

Beijing, China

May.2016-Sep.2016

### Vision and Media Lab, Simon Fraser University

Research Assistant

Deep Learning with Structure, Multilabel Classification with Relation

Vancouver, BC

May.2015-Jun.2016

### Microsoft

Anti-virus Researcher

Virtual Machine Inspection, Program Analysis, .Net Malware Analysis

Vancouver, BC

May.2014-Sep.2014

## PUBLICATIONS

### Pre-prints

Learning Cascaded Auto-encoder for Cross-Modal Hierarchical Embedding

B. Zhang\*, [H. Hu\\*](#), F. Sha

### Conferences

Learning Answer Embedding for Visual Question Answering

[H. Hu\\*](#), W-L. Chao\*, F. Sha

CVPR 2018

Salt Lake City, UT

Cross-dataset Adaptation for Visual Question Answering

[H. Hu\\*](#), W-L. Chao\*, F. Sha

CVPR 2018

Salt Lake City, UT

Compressed Video Action Recognition

C.-Y. Wu, M Zaheer, [H. Hu\\*](#), R. Manmatha, A. J. Smola, P. Krahenbuhl

CVPR 2018

Salt Lake City, UT

Being Negative but Constructively: Lessons Learnt from Creating Better VQA Dataset

W-L. Chao\*, [H. Hu\\*](#), F. Sha.

NAACL-HLT 2018 (Oral)

Honolulu, HI

FastMask: Segment Multi-scale Object Candidates in One Shot

[H. Hu\\*](#), S. Lan\*, Y. Jiang, Z. Cao, F. Sha.

CVPR 2017(Spotlight)

Honolulu, HI

Learning Structured Inference Neural Networks with Label Relations

[H. Hu](#), G. Zhou, Z. Deng, Z. Liao, G. Mori.

CVPR 2016

Las Vegas, NV

Structure Inference Machines: RNN for Analyzing Relations in Group Activity Recognition

Z. Deng, A.Vahdat, [H. Hu](#), G. Mori.

CVPR 2016

Las Vegas, NV

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## PROFESSIONAL ACTIVITIES

### SCHOLRASHIPS

- |  |                    |
|--|--------------------|
| • The 35 <sup>th</sup> International Conference on Machine Learning ( <b>ICML 2018</b> )               | Stockholm, Sweden  |
| • Annunal Conference on Computer Vision and Pattern Recognition ( <b>CVPR 2018</b> )                   | Salt Lake City, UT |
| • The 31 <sup>th</sup> Annual Conference on Neural Information Processing Systems ( <b>NIPS 2017</b> ) | Long Beach, CA     |
| • Transaction on Patten Analysis and Machine Intelligence ( <b>TPAMI</b> )                             |                    |
| • IEEE Winter Conference on Applications of Computer Vision ( <b>WACV 2015</b> )                       | Big Island, HI     |

## SKILLS

**Interests:** Swimming, Baseket Ball

**Tools:** Python, C++, Pytorch, Caffé, Torch, Tensorflow, Javascript, HTML, CSS, LaTeX, Matlab, Cuda

### Skills

- |                       |  |
|-----------------------|--|
| • Computer Vision     | Object Recognition, Detection and Segmentation, Video Analysis         |
| • Vision and Language | Visual Question Answering, Structured Understanding towards Video      |
| • Machine Learning    | Deep Learning, Transfer Learning, Domain Adaptations, Generative Model |

## AWARDS

### SCHOLRASHIPS

- |  |                     |
|--|---------------------|
| CSCI Department Fellowship, Viterbi School of Engineering, USC | 2017-2018           |
| Entrance Scholarship for Merits, SFU                           | 2013-2014           |
| Second-Class Scholarship for Merits, ZJU                       | 2011-2012,2012-2013 |

### HONORS & AWARDS

- |  |                     |
|--|---------------------|
| President's Honor Roll, SFU  | 2015-2016           |
| Dean's Honor Roll, SFU   | 2015-2016           |
| Undergraduate Research Opportunities Conference (UROC) Traveling Award, U Waterloo | 2016                |
| Excellent Students Awards, ZJU   | 2011-2012,2012-2013 |