Hexiang Hu
PhD Student in Machine Learning

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EDUCATION

University of Southern California   Los Angeles, CA
PhD Student (Machine Learning, Computer Vision, NLP)   Jan.2017- Present
Supervisor: Prof. Fei Sha

University of California, Los Angeles   Los Angeles, CA
PhD Student (Machine Learning, Computer Vision) **(Transfer)**   Sep.2016-Jan.2017
Supervisor: Prof. Fei Sha

Simon Fraser University   Vancouver, BC
B.S. in Computer Science **(With Distinction)**   Sep.2013-May.2016
Supervisor: Prof. Greg Mori

ZHEJIANG University   Hangzhou, China
B.Eng. in Computer Science   Sep.2011-Jun.2016
Supervisor: Prof. Zicheng Liao

University of California, Los Angeles   Los Angeles, CA
Exchange Student   Aug.2012-Sep.2012

WORK & RESEARCH EXPERIENCE

Theoretical and Emprical Data Science Lab   Los Angeles, CA
Research Assistant **(Supervisor: Prof. Fei Sha)**   Sep.2016-Present
Vision and Language, Transfer Learning, Embedding Learning

Amazon AI   Palo Alto, CA
Applied Scientist Intern **(Supervisor: Dr. R. Manmatha & Prof. Deva Ramanan)**   May.2017-Aug.2017
Large-scale Video Analysis with Compressed Videos

Megvii (Face++) Technology   Beijing, China
Research Sicentist Intern **(Supervisor: Yuning Jiang & Dr. Jian Sun)**   May.2016-Sep.2016
Object Detection and Instance Segmentation

Vision and Media Lab, Simon Fraser University   Vancouver, BC
Research Assistant   May.2015-Jun.2016
Deep Learning with Structure, Multilabel Classification with Relation

Microsoft   Vancouver, BC
Anti-virus Researcher   May.2014-Sep.2014
Vitural Machine Inspection, Program Analysis, .Net Malware Analysis

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   CVPR 2018
H. Hu*, W-L. Chao*, F. Sha   Salt Lake City, UT

Cross-dataset Adaptation for Visual Question Answering   CVPR 2018
H. Hu*, W-L. Chao*, F. Sha   Salt Lake City, UT

Compressed Video Action Recognition   CVPR 2018
C.-Y. Wu, M Zaheer, H. Hu*, R. Manmatha, A. J. Smola, P. Krahenbuhl   Salt Lake City, UT

Being Negative but Constructively: Lessons Learnt from Creating Better VQA Dataset   NAACL-HLT 2018 (Oral)
W-L. Chao*, H. Hu*, F. Sha.   Honolulu, HI

FastMask: Segment Multi-scale Object Candidates in One Shot   CVPR 2017(Spotlight)
H. Hu*, S. Lan*, Y. Jiang, Z. Cao, F. Sha.   Honolulu, HI

Learning Structured Inference Neural Networks with Label Relations   CVPR 2016
H. Hu, G. Zhou, Z. Deng, Z. Liao, G. Mori.   Las Vegas, NV

Structure Inference Machines: RNN for Analyzing Relations in Group Activity Recognition   CVPR 2016
Z. Deng, A.Vahdat, H. Hu, G. Mori.   Las Vegas, NV

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PROFESSIONAL ACTIVITIES

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

SKILLS

Interests: Swimming, Baseket Ball
Tools: Python, C++, Pytorch, Caffe, Torch, Tensorflow, Javascript, HTML, CSS, LaTeX, Matlab, Cuda

Skils
- 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

SCHOLARSHIPS
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