Yufei Wang

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EDUCATION

University of California, San Diego *2013 - Present*
Ph.D. Student, Electrical and Computer Engineering
University of Science and Technology of China *2009 - 2013*
Bachelor of Science, Electronic Information Engineering , School for Gifted Young

SOFTWARE SKILLS

C++, Python, C#, Matlab, LaTeX

RESEARCH INTERESTS

My research interests are deep learning and computer vision. Currently, I'm interested in Deep convolutional neural networks on image tagging and event specific image understanding.

PUBLICATIONS

(Under Review) **Wang, Y**, Zhe, L., Shen, X., Měch R., Miller G., and Cottrell, G. W., "Joint Event Recognition and Image Curation."European Conference on Computer Vision(ECCV), 2015. ECCV 2016.

Wang, Y, Zhe, L., Shen, X., Měch R., Miller G., and Cottrell, G. W., "Event-specific Image Importance." Computer Vision and Pattern Recognition, 2016. CVPR 2016.

Rao, S., **Wang, Y**, and Cottrell, G. W., "A Deep Siamese Neural Network Learns the Human-Perceived Similarity Structure of Facial Expressions Without Explicit Categories." CogSic 2016.

Wang, Y, and Cottrell, G. W., "Bikers are like tobacco shops, formal dressers are like suits: Recognizing Urban Tribes with Caffe." IEEE Winter Conference on Applications of Computer Vision (WACV), 2015.

Tang, A., Lu,K., **Wang, Y.**, Huang, J., and Li, H., "A Real-time Hand Posture Recognition System Using Deep Neural Networks." ACM Trans. Intell. Syst. Technol.

EXPERIENCE

Graduate Student Researcher *2014 - Present*
Gary's Unbelievable Research Unit, UC San Diego, La Jolla, CA
— Social group recognition with Convolutional Neural Networks. Achieved state-of-the-art recognition rate of 71% on urban tribes dataset.
— Image tagging with Convolutional Neural Networks.

Research Intern *Jun. 2015 - Sep. 2015*
Adobe System Incorporated, San Jose, CA
— Introduced a new image property: event-specific image importance, and a dataset to study this property.
— Developed a CNN based system to predict event-specific image importance, and the method outperforms various baselines.

Research Intern *Jul. 2012 - Sep. 2012*
Media Computing Group, Microsoft Research Asia, Beijing, China
— Implemented a visual categorization system with bags of keypoints.

Research Assistant *2012 -2013*
Information Processing Center, University of Science and Technology of China, Hefei, China

- Hand posture recognition system with Kinect.
- Built a real-time hand tracking and segmentation model, with occlusion handling.

COURSES
Learning Algorithms Implemented algorithms: Logistic regression; Latent Dirichlet Allocation; Conditional Random Fields; Deep Recursive Autoencoder.
Statistical Learning
Convex Optimization Improvement of Dropout technique for Deep networks.
Big Data Analytics Analysis of global weather data using MapReduce.
Image Processing Monocular vehicle detection and tracking.

AWARDS

Departmental Fellowship, *UC San Diego*	*2013*
"Award of Excellence" in Internship Program, *Microsoft Research Asia*	*2012*
"Little Scholar" Scholarship, *Microsoft Research Asia*	*2012*
National Scholarship of University, *Department of Education of China*	*2010*