

Bin Wang

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RESEARCH INTERESTS

- Statistical Machine Learning, Deep Learning, Subspace Learning.
- Applications in Natural Language Processing, Computer Vision.

EDUCATION

- **University of Southern California (USC)** Los Angeles, USA
Ph.D. in Electrical Engineering; Minor in Computer Science; Advisor: C.-C. Jay Kuo Jul 2017 - Present
- **University of Southern California (USC)** Los Angeles, USA
M.S. in Electrical Engineering; Advisor: C.-C. Jay Kuo Jul 2017 - May 2019
- **University of Electronic Science and Technology of China (UESTC)** Chengdu, China
B.Eng in Electronic Information Engineering; GPA: 92.4/100; Rank: 2/351 Sep 2013 - Jun 2017

EXPERIENCE

- **Research Assistant; USC** Los Angeles, USA
Aircraft Smart Maintenance Project Jul 2017 - Aug 2018
 - **Video Caption:** Built CNN and RNN based model to learn inter-model (visual, language) translation.
 - **Video Summarization:** Incorporated machine learning models for unsupervised video summarization.
 - **Video Communication:** Developed video streaming module using WebRTC on Moverio BT-300 smart glasses.
- **Research Intern; University of Ontario Institute of Technology** Toronto, Canada
Advisor: Haoxiang Lang Jul 2016 - Oct 2016
 - **SLAM:** Developed Simultaneous Localization and Mapping on Turtlebot Robot.
 - **Image Processing:** Focused on human hand gesture recognition using RGB-Depth image with Kinect 1.0/2.0.
- **Exchange Student; City University of Hong Kong** Kowloon, HK
Electrical and Electronics Engineering; GPA: 4.3/4.3 Sep 2015 - Jan 2016

PUBLICATION

1. **Evaluating Word Embedding Models: Methods and Experimental Results**
Bin Wang*, Angela Wang*, Fenxiao Chen, Yunchen Wang, and C.-C. Jay Kuo. APSIPA Transactions on Signal and Information Processing, 8, E19, 2019.
2. **K-covers for active learning in image classification**
Yeji Shen, Yuhang Song, Hanhan Li, Shahab Kamali, Bin Wang and C.-C. Jay Kuo. 2019 IEEE International Conference on Multimedia and Expo (ICME) Workshop. IEEE, 2019.
3. **Deepwalk-assisted Graph PCA (DGPCA) for language networks**
Fenxiao Chen, Bin Wang and C.-C. Jay Kuo. 2019 International Conference on Acoustics, Speech and Signal Processing (ICASSP). IEEE, 2019.
4. **Post-Processing of Word Representations via Variance Normalization and Dynamic Embedding**
Bin Wang, Fenxiao Chen, Angela Wang, and C.-C. Jay Kuo. 2019 IEEE International Conference on Multimedia and Expo (ICME). IEEE, 2019.
5. **Hand gesture recognition and motion estimation using the Kinect Sensor**
Bin Wang, Yunze Li, Haoxiang Lang and Ying Wang. Mechatronic Systems and Control, 2019.
6. **Graph-based Deep-Tree Recursive Neural Network (DTRNN) for Text Classification**
Fenxiao Chen, Bin Wang, and C.-C. Jay Kuo. Spoken Language Technology Workshop (SLT), IEEE, 2018.

HONORS AND AWARDS

- Excellent Graduate of Sichuan Province, 2017
- Tanglixin Scholarship, 2017
- National Scholarship, China, 2015 & 2016.
- Outstanding Student Leadership Award, 2014
- Samsung Scholarship, 2014

SKILLS SUMMARY

- **Languages:** Python, C, C++, Matlab
- **Tools:** Tensorflow, PyTorch, sklearn, MatConvNet, Linux, Git, Latex, WebRTC
- **Experience:** Machine Learning, Deep Learning, Natural Language Processing, Computer Vision