

XI OUYANG

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Homepage: <https://oyxhust.github.io>

EDUCATION

Shanghai Jiao Tong University

September 2018 - Now

Doctor of Philosophy, specialized in AI and Medical Imaging Analysis

Huazhong University of Science and Technology

September 2015 - June 2018

Master of Engineering, specialized in Deep Learning

Main Topics: Affective Computing, Natural Language Processing, Video Analysis

Huazhong University of Science and Technology

September 2011 - June 2015

Bachelor of Engineering, Electronics Engineering

GPA: 87.28/100

Coursework: Data Structures, Operating System, Programming in C/C++, Probability, Stochastic Process, Information Theory

EXPERIENCE

Panasonic R&D Center Singapore

December 2016 - August 2017

Research Intern

Singapore

- Built up deep learning models for the License Plate Recognition (LPR)
- Explored methods and designed strategies for adopting Long Short Term Memory (LSTM) networks for human action recognition
- Explored and Built algorithms for facial expression recognition in videos. **1st runner-up** in Audiovisual emotion recognition sub-challenge of the Multimodal Emotion Recognition Challenge (MEC) 2017, and Sixth place in Audio-Video Sub-challenge of the the fifth Emotion Recognition in the Wild 2017 Grand Challenge (EmotiW 2017). Main contribution for the visual part in both two challenges

Huazhong University of Science and Technology

July 2016 - December 2016

Research Assistant

Wuhan

- Cooperated with School of Civil Engineering and Mechanics. Designed algorithms for unsafe behavior detection in construction sites

SKILLS

Programming Languages

Python, C/C++, MATLAB

Operating System

Linux Ubuntu, Windows

Tools

PyTorch, MXNet, Caffe, Git, Vim

HONORS AND AWARDS

CVPR Workshop on the NVIDIA AI City Challenge, Champion in Track 2 2018

MEC 2017, 1st Runner-Up in Audiovisual Emotion Recognition Sub-challenge 2017

EmotiW 2017, Sixth Place in Audio-Video Sub-challenge 2017

Merit Postgraduate Student Award, Huazhong University of Science and Technology 2016&2017

Distinguished Graduate Award, Huazhong University of Science and Technology 2015

PUBLICATIONS

Xi Ouyang, Kang Gu and Pan Zhou, “Spatial Pyramid Pooling Mechanism in 3D Convolutional Network for Sentence-Level Classification,” *IEEE/ACM Transactions on Audio, Speech, and Language Processing (TASLP)*, 2018

Yan Xu[#], **Xi Ouyang**[#], Yu Cheng[#], Shining Yu[#], Lin Xiong, Sugiri Pranata, Shengmei Shen and Junliang Xing, “Dual-Mode Vehicle Motion Pattern Learning for High Performance Road Traffic Anomaly Detection,” *CVPR Workshops (CVPRW)*, 2018 (# means equal contributions)

Lieyun Ding, Weili Fang, Hanbin Luo, Peter ED Love, Botao Zhong, **Xi Ouyang**, “A Deep Hybrid Learning Model to Detect Unsafe Behavior: Integrating Convolution Neural Networks and Long Short-Term Memory,” *Automation in Construction*, 2018

Xi Ouyang, Shigenori Kawaai, Ester Gue Hua Goh, Shengmei Shen, Wan Ding, Huaiping Ming, Dong-Yan Huang, “Audio-visual Emotion Recognition Using Deep Transfer Learning and Multiple Temporal Models,” *In Proceedings of the 19th ACM International Conference on Multimodal Interaction (ICMI)*, 2017

Chaoyun Zhang, **Xi Ouyang**, and Paul Patras. “ZipNet-GAN: Inferring Fine-grained Mobile Traffic Patterns via a Generative Adversarial Neural Network,” *In Proceedings of the 13th International Conference on emerging Networking EXperiments and Technologies (CoNext)*, 2017

Xi Ouyang, Pan Zhou, Cheng Hua Li, Lijun Liu, “Sentiment Analysis Using Convolutional Neural Network,” *PICOM*, 2015