Email: yangmu@usc.edu | Tel: +1(213)245-0584 | https://mu-v.github.io/

EDUCATION

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>	University of Southern California (Los Angeles, U.S.)		Aug 2017 - May 2019
	 Master of Science in Electrical Engineering 	GPA: 3.73/4.0	
\triangleright	Chongqing University (Chongqing, China)		Sept 2013 - Jun 2017
	 Bachelor of Engineering in Communication Engineer 	ring GPA: 3.63/4.0	
\triangleright	National Sun Yat-sen University (Kaohsiung City, Ta	al Sun Yat-sen University (Kaohsiung City, Taiwan)	
	Exchange Program	GPA: 4.17/4.3	

PUBLICATIONS

> Spoken Language Intent Detection using Confusion2Vec

Mu Yang*, Prashanth Gurunath Shivakumar*, Panayiotis Georgiou (*: Equal Contribution) Proceedings of Interspeech, 2019.

➤ Deep Structured Neural Network for Event Temporal Relation Extraction Rujun Han*, I-Hung Hsu*, Mu Yang, Aram Galstyan, Ralph Weischedel, Nanyun Peng Proceedings of CoNLL, 2019.

SELECTED PROJECTS

Lyrics Dataset Collection, Cleaning and Genre Classification (USC, U.S)

Oct 2018 - Nov 2018

- Web crawled lyrics using the metadata returned by iTunes search API, including song name, artist, genre.
- Collected ~14k lyrics for 8 different genre labels after data cleaning.
- Performed classification using models including Naïve Bayes, SVM, KNN, Bidirectional LSTM.
- ➤ WaveNet-based Singing Voice Synthesis (USC, U.S.)

Aug 2018 - Nov 2018

- Collected isolated vocal tracks and employed Gentle to obtain time-aligned phonetic transcripts.
- Trained WaveNet-based Timbre model to predict MFSC and Aperiodicity parameters providing control inputs including singer identity, F0, phoneme identity, etc.
- Fed predicted MFSC and Aperiodicity coefficients and true F0 into WORLD Vocoder to synthesize audio.
- > DNN-based Acoustic Model Training and ASR Training (USC, U.S.)

Oct 2018

- Trained a DNN Acoustic Model(AM) for audio-to-phoneme prediction on force aligned TED-LIUM dataset.
- Created a dictionary and encoded a Language Model(LM) for a small piece of text.
- Used Kaldi toolkit to train a complete ASR based on the AM and LM, ran decoding for self-spoken recordings.
- ➤ Faster-RCNN for Pedestrian Detection in Videos (CQU, China)

Feb 2017 - Jun 2017

 Trained Faster-RCNN framework on Caltech and VOC pedestrian dataset to process videos, generated bounding boxes marking pedestrians.

WORK EXPERIENCE

Resource Employee (USC Information Sciences Institute, LA, U.S.)

Aug 2019 - Present

- Plus Lab, Supervisor: Prof. Nanyun (Violet) Peng
- Research Biomedical Event Extraction and Event Temporal Relation Extraction using Structured Prediction.
- ▶ Biomedical Image Processing R&D Intern (Cedars-Sinai Medical Center, LA, U.S.)
 May 2018 Oct 2018
 Department of Surgery, Supervisor: Dr. Arkadiusz Gertych
 - Develop data processing and CNN model pipelines to perform TB detection on digital slides of human tissue.

ACTIVITY & AWARDS

➤ Grader of EE483(Signal Processing) at USC

Aug 2018 - May 2019

➤ National Scholarship of China (top 1%)

Oct 2015

SKILLS

- ▶ **Programming language**: Python, Unix Shell, Matlab, C/C++, Java.
- **Technical tools:** Pytorch, Tensorflow, Keras, Kaldi, Vim, Git, Audacity.