Chiamin Wu

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EDUCATION

Georgia Institute of Technology, Atlanta, GA *Aug. 2017 – Dec. 2018 (Expected)*

- Master of Science in Computer Science, GPA: 3.8/4.0
- Courses: Advanced Algorithm, Computer Vision, Big Data for Health, Machine Learning, Machine Learning for Trading, Data Visualization, and Behavior Imaging

National Chiao-Tung University, Hsinchu, Taiwan *May. 2007 – Jun. 2013*

- Master/Bachler of Science in Electronics Engineering, GPA: 3.76/4.0, 3.94/4.0, President's Prize (Top 5%)

SKILLS

Programming: Python · Java · C++ · MATLAB · Scala · SQL · JavaScript · HTML · CSS
Platforms / Tools: Tensorflow · Keras · Pytorch · Flask · Django · MySQL · Docker · AWS · Spark · Hadoop · D3 · Azure

PUBLICATIONS

AWE-Asymmetric Word Embedding for Textual Entailment, AAAI (Under Review) *May. 2018 – Sep. 2018*
Author: Tengfei Ma, **Chiamin Wu**, Cao Xiao, Jimeng Sun

- Achieved NLP state-of-the-art performance (**84.4%** accuracy) on SciTail dataset
- Built AWE-DEISTE and AWE-Decomposable Attention model on Theano and Pytorch
- Improved accuracy on both SNLI and SciTail datasets
- Github: github.com/cwu392/AWE-model

HAMLET-Interpretable Human and Machine co-Learning Technique, JAMIA (Under Review) *Feb. 2018 – May. 2018*

- Built Django website for medical data collection: http://brainhealth.sunlab.org/
- Processed EEG data from 5,000 patients with over 21.6 million images
- Built R-CNN model to help physicians to classify seizures

Book: Introduction to Deep Learning for Healthcare *May. 2018 – Now*
Author: Jimeng Sun, Cao Xiao

- Created all deep learning code examples

US Patent: IRE level calibration method on TV DAC *Sep. 2015 – Dec. 2015*
Author: **Chiamin Wu**

- Patent No.: 14/960, 251, Dec. 2015
- Created an algorithm to save 50% power on TV signal transmission
- Applied on Quanta Optical Touch TV and Panasonic Visual Intercom

ENGINEERING PROJECTS

US Traffic Sign Dataset (with SF Express): *May. 2018 – Now*

- Built Faster-RCNN/YOLO models for object detection task (> 12fps)
- Built MobileNet/Inception/ResNet/DenseNet models for classification task
- Collected and trained on > 30K images from DOT and tested on real roads
- Achieved 93% accuracy and 90% mAP on real driving test
- Video link: goo.gl/qCeBpN

Medical Image Labeling for Orthopedist: *Oct. 2017 – Mar. 2018*

- Implemented Mask-RCNN model to help physicians to detect median nerve
- Analyzed over 200 patients with over 10k images
- Achieved < 1% false positive and 99% classification accuracy
- Video demo: goo.gl/Np4JFT

FishNet - A Camera localizer using Deep Recurrent Networks *Feb. 2018 – Dec. 2017*

- Built CNN + LSTM model on > 10K city images
- Achieved error distance < 1.5m over 3,000m outdoor scenes localization accuracy
- Video demo: goo.gl/k8xRM3

Deep Learning Based Method for 3D Human Pose Estimation Fisheye Images *Jan. 2017 – Apr. 2017*

- Built Inception model to real-time track human skeleton
- Applied on both perspective and fisheye video
- Published on CVGIP 2017