Chiamin Wu

+1(404) 719-2528 | cwu392@gatech.edu | 251 10th st NW, Apt B508B, Atlanta, GA 30318 | github.gatech.edu/cwu392

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

AAAI 2019: AWE-Asymmetric Word Embedding for Textual Entailment (Under Review) — *May. 2018 - Now*

Author: Tengfei Ma, **Chiamin Wu**, Cao Xiao, Jimeng Sun

- Current NLP state-of-the-art (**84.7%)** on SciTail
- Created and trained AWE-DEISTE and AWE-Decomposable Attention models on Theano and Pytorch
- Verified on SNLI and SciTail datasets
- Github: https://github.gatech.edu/cwu392/AWE-model

JAMIA: HAMLET-Interpretable Human And Machine co-LEarning Technique (Under Review) — *Feb. 2018 – Now*

- 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 RCNN model to help physicians to classify epilepsy stages

Book: Introduction to Deep Learning for Healthcare — *May. 2018 - Now*

Author: Jimeng Sun, Cao Xiao

- Created all deep learning code examples on Jupyter Notebook

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

Research Projects

GT100K - 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 road test
- Personal Result Link: http://goo.gl/fJMkKC

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 Link: 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
- Paper Link: goo.gl/ordSbq; Video Link: 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