PIN-JUNG CHEN

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EDUCATION

Carnegie Mellon University, School of Computer Science *Aug. 2018 - Dec. 2019*
Master of Computational Data Science (MCDS) *Pittsburgh, PA*
- Coursework: Introduction to Computer Systems, Introduction to Machine Learning (PhD), Interactive Data Science

National Taiwan University *Aug. 2013 - Jan. 2018*
B.S. in Electrical Engineering | GPA: 3.99/4.3(3.88/4.0) *Taipei, Taiwan*
- Honors & Awards: Dean's List (Spring 2014), Google Student Grants for ASRU 2017
- Coursework: Machine Learning*, Artificial Intelligence*, Intelligent Conversational Bot*, The Design and Analysis of Algorithms*, Computer Architecture, Data Structure and Programming (*graduate-level courses)

RESEARCH & WORK EXPERIENCES

Vision and Learning Lab *Feb. 2017 - Jan. 2018*
Undergraduate Researcher; Advisor: Prof. Yu-Chiang Frank Wang *National Taiwan University*
- Proposed a unique architecture for joint learning of 3D models and associated disentangled features from single-view 2D images, which outperformed state-of-the-art methods by 9.9% in IoU in a weakly-supervised setting.
- Served as external reviewers for refereed papers for AAAI 2018.

Speech Processing and Machine Learning Lab *Feb. 2016 - Jul. 2017*
Undergraduate Researcher; Advisor: Prof. Hung-Yi Lee *National Taiwan University*
- First to formulate the ASR errors in spoken dialog systems as a domain adaptation problem and proposed an original Dual-Encoder Sequence-to-Sequence model which outperformed the baseline by 45% in BLEU Score. [1]
- Developed a strong agent for a complex game, Bomberman, by combining supervised learning from human games, and deep reinforcement learning from self-play games.

NVIDIA AI Technology Center (NVAITC) *Feb. 2017 - Jul. 2017*
Intern *Taipei, Taiwan*
- Worked on accelerating deep neural network training and inference on DGX-1.

TEACHING EXPERIENCES

Teaching Assistant, Machine Learning *Sep. 2017 - Jan. 2018*
Instructor: Hung-Yi Lee *National Taiwan University*
- A graduate-level course with 400 people.
- Group leader of the final project on Speech Recognition in Taiwanese.

Teaching Assistant, Algorithm *Sep. 2017 - Jan. 2018*
Instructor: Yu-Chiang Frank Wang *National Taiwan University*
- Provided short lectures and office hours for students.

SELECTED PROJECTS

MusicBot, Intelligent Conversational Bot [Python, TensorFlow] *Feb. 2017 - Jun. 2017*
- Built a neural dialog system for music playing and recommendation which allows multimodal interactions with users.

Transfer Learning on Stack Exchange Tags, Machine Learning [Python, Gensim, Scikit-Learn, NLTK] *Jan. 2017*
- Predicted tags of Stack Exchange questions on the unseen physics category by machine learning and NLP methods.
- Ranked 8 in a class of 240 people and top 25% among 380 teams on Kaggle measured by mean F1-score.

NBA Analysis, Data Analytics [MySQL, Tableau] *Jan. 2016*
- Crawled enormous amount of NBA data from basketball-reference.com to analyze and visualize advanced NBA stats.

SKILLS

Programming Languages	Python, C/C++, MATLAB, MySQL, Java
Tools/Frameworks	Tensorflow, Keras, Git, LaTeX, LIBSVM, MapReduce, AWS

PUBLICATION

[1] **Pin-Jung Chen**, I-Hung Hsu, Yi-Yao Huang, and Hung-Yi Lee. "Mitigating the Impact of Speech Recognition Errors on Chatbot using Sequence-to-Sequence Model", in IEEE Workshop on Automatic Speech Recognition and Understanding (ASRU 2017), Okinawa, Japan, December 16-20, 2017. [**link**]