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EDUCATION

Columbia University <i>M.S. in Computer Science (Machine Learning Track)</i>	New York, NY <i>Aug 2018 - Dec 2019</i>
National Taiwan University (NTU) <i>B.S. in Electrical Engineering (GPA: 3.7/4.0)</i>	Taipei, TW <i>Sep 2013 - Jan 2018</i>
University of Pennsylvania <i>Institute of Academic Studies Program (GPA: 4.0/4.0)</i>	Philadelphia, PA <i>Jul 2015 - Aug 2015</i>

PROFESSIONAL EXPERIENCES

Columbia University, Digital Video Multimedia Laboratory <i>Graduate Research Assistant — Advisor: Prof. Shih-Fu Chang</i>	New York, NY <i>Sept 2018 - Present</i>
<ul style="list-style-type: none">• Focus on detection of GAN-generated images and leverage GAN to combat adversarial examples• Design classifier of the genuine or GAN-generated images	
CITI, Academia Sinica, Multimedia and Machine Learning Laboratory <i>Undergraduate Researcher — Advisor: Prof. Yu-Chiang (Frank) Wang</i>	Taipei, TW <i>Feb 2017 - Jan 2018</i>
<ul style="list-style-type: none">• Proposed unique architecture for joint learning 3D voxels and associated disentangled features from single 2D image• Achieved 49.1% accuracy and performed against state-of-the-art fully-supervised methods• Outperformed state-of-the-art method with 9.9% in IoU without additional pose info in weakly-supervised setting	
NTU, Speech Processing and Machine Learning Laboratory <i>Undergraduate Researcher — Advisor: Prof. Hung-Yi Lee</i>	Taipei, TW <i>Aug 2016 - Jan 2018</i>
<ul style="list-style-type: none">• Proposed comprehension network intended to reach 53.9% accuracy on TOEFL Listening Comprehension Dataset• Focused on comprehension network, variational autoencoder, semantic analysis and deep learning	
Fusion Next Inc. (Startup) <i>Android Application Developer Internship</i>	Taipei, TW <i>Jul 2016 - Aug 2016</i>
<ul style="list-style-type: none">• Built up application for dashboard camera and assisted user interface designing	

ACADEMIC PROJECTS

Transfer Learning on Stack Exchange Tags <i>Final Project in Machine Learning, NTU</i>	[Python, Pytorch, Scikit-Learn, NLTK] <i>2016</i>
<ul style="list-style-type: none">• Ranked No. 6 in class (over 200 students) / Top 23% in worldwide Kaggle competition• Utilized transfer learning and predicted tags from model trained on unrelated topics	
Real-Time Dormitory Washing Machine Surveillance System <i>Final Project in Embedded System, NTU</i>	[Java, JavaScript, CSS3/HTML5] <i>2016</i>
<ul style="list-style-type: none">• Implemented real-time surveillance system of washing machines' status with website and mobile-app client-ends	
Customized Vocabulary-Learning Dictionary <i>Final Project in Website Programming, NTU</i>	[NodeJS, ReactJS, CSS/HTML, MySQL] <i>2016</i>
<ul style="list-style-type: none">• Developed dictionary helping building up vocabulary list and provided customized test according to familiarity	
Functionally Reduced And-Inverter Graph (FRAIG) <i>Final Project in Data Structure and Programming, NTU</i>	[C++, Unix, Shell script] <i>2015</i>
<ul style="list-style-type: none">• Implemented hash structure of circuit to identify functionally equivalent pairs and support optimization and simulation	

SKILLS

Programming Languages	Python, C/C++, MATLAB, Java, ReactJS, NodeJS, MySQL, CSS3/HTML5, L ^A T _E X
Tools and Technologies	PyTorch, TensorFlow, Keras, Git, Unix/Linux
Languages	Mandarin Chinese (Native), Taiwanese (Native), Spanish (Good Command)