

KUAN-TING (TIM) LIU

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Education	Cornell Tech at Cornell University	New York, NY
	M.S. in Information Systems and Applied Information Sciences, May 2021	
	National Tsing Hua University	Hsinchu, TW
	B.S. in Medical Science, June 2016, last 60 GPA: 3.96 / 4.30	
	<ul style="list-style-type: none">Led a team of 4 in AIESEC NTHU and set the record of highest number of tech and educational internships in 3 years.	
Experience	National Taiwan University	Taipei, TW
	Machine Learning Engineer, Machine Discovery and Social Network Mining Laboratory	
2018-2019	<ul style="list-style-type: none">Designed and implemented a generalized active learning framework for data labeling with quality control strategies using Python and PyTorch.Collected the first dataset for sequential sentence classification in the computer science area with up to 11,000 labeled data.	
2017-2018	Academia Sinica	Taipei, TW
	Data Engineer, Data Insight and Research Laboratory	
	<ul style="list-style-type: none">Assisted lecturer in "Hands-on Deep Learning in Keras" to ensure all students understand how to apply neural network on real world problems.Designed and implemented data driven models for healthcare sensor data and medical images with Python, OpenCV and PyTorch.Developed 1D multi-scale residual CNNs for non-invasive glucose measurement and showed 93.2% of samples are within zone A of CEG analysis.Implemented residual structure within 3D CNNs and improved R-squared metric from 88% to 92%.	
2016-2017	Council of Agriculture, Executive Yuan	Jiji, TW
	Software Engineer Intern, Endemic Species Research Institute	
	<ul style="list-style-type: none">Built a data visualization platform to promote citizen science and nature conservation with HTML and CSS.Optimized data pipelines for Breeding Bird Survey Taiwan to improve the efficiency with R shiny package.Developed "Brood Patch Index" for the first biodiversity methodology to evaluate the monthly breeding status for each endemic avian.Implemented a web crawler for the Facebook group - "Front of the Birds" using Python and Selenium with high reusability.	
Publications	<i>Automation of the kidney function prediction and classification through ultrasound-based kidney imaging using deep learning.</i> Chin-Chi Kuo, Chun-Min Chang, Kuan-Ting Liu , Wei-Kai Lin, Hsiu-Yin Chiang, Chih-Wei Chung, Meng-Ru Ho, Pen-Ren Sun, Rong-Lin Yang, and Kuan-Ta Chen. (2019) Nature Partner Journals Digital Medicine.	
Skills	Programming: Python, R, C++, Java, HTML, CSS, JavaScript, Latex Tools: PyTorch, TensorFlow, Keras, OpenCV, NumPy, Pandas, Shiny, Selenium, Django Relevant Courses: Applied Machine Learning, HCI and design, Introduction to Algorithms, Data Structures, Operating Systems	
Awards	College Student Research Scholarship 2016 Summer Academic Research Scholarship 2015	