## **Hung-Yueh Chiang**

Email : hungyueh.chiang@gmail.com   Mobile: +1512.825.9352   Webpage   Gith	<u>ub   LinkedIn   Google Scholar</u>
Career	
Research Scientist Intern, Amazon, Seattle (Remote), USA	May 2022 – Nov. 2022
• Image synthesis and generation for shoe virtual try-on with diffusion models	
• The work, <i>Shoe-ViTON: Detail-Preserving Virtual Shoe Try-On with Dual Condition</i> in Amazon Machine Learning Conference (AMLC) as a long presentation	onal Diffusion Models, is accepted
XYZ Robotics, Shanghai	Jun. 2019 - May 2021
• Proposed a multi-modal (image, depth, and normal) to improve 2D segmentation ne picking area (mIoU from 85% to 91%)	twork's accuracy of best robot
• Leveraged synthetic training data in Blender to improve the accuracy of best robot p	bicking area (mIoU from 41.38% to
76.62%) for unseen items.	
• Developed deep learning services (segmentation/object detection) in Robot Operatin	ng System (ROS) in products
Skills and Tools	
Programming language: C/C++ (Boost, PCL, OpenCV, OpenNI), Python (Numpy, Ma	tplotlib, PyQt, Tkinter)
Learning framework: Tensorflow, Pytorch (Python and C++), MXNet, ONNX	
Tools: Linux, Git, Google Test, Google Log, CMake, Pylint, Clang-format, yapf, Blen	der
Education	
The University of Texas at Austin	<i>Sep.</i> 2021 – 2025 (anticipated)
Ph.D. in Electrical and Computer Engineering	
Affiliation: Energy-Aware Computing Group (EnyAC)	
Research Direction: Edge AI / Network Quantization / Neural Architecture Search	
Advisor: Prof. Diana Marculescu	
National Taiwan University	Sep. 2016 - Sep. 2018
M.S. in Computer Science and Information Engineering (GPA: 3.87/4.3)	
Affiliation: NVIDIA-NTU AI Lab	N. (* 2010)
Advisor: Prof. Winston Hsu	canNet in 2018)
ETH Zurich	Jan. 2015 - Sep. 2015
Undergraduate Exchange Program	
Affiliation: Computer Vision and Geometry Group (CVG)	
Undergrad Research Project: Investigate image-based 3D reconstruction methods	
Advisor: Prof.Marc Polleteys	
National Yang Ming Chiao Tung University	Sep. 2011 - Sep. 2015
B.S. in Computer Science Elite Program (GPA: 4.08/4.3)	
Honors and Awards	

- Engineering Fellowship from The University of Texas at Austin Graduate School, 2021
- Second Place at ScanNet benchmark and invited talk at CVPR 2019

## **Selected Publications**

- *MobileTL: On-device Transfer Learning with Inverted Residual Blocks.* Hung-Yueh Chiang, Natalia Frumkin, Feng Liang, and Diana Marculescu, AAAI 2023
- FOX-NAS: Fast On-device and Explainable Neural Architecture Search. Chia-Hsiang Liu, Yu-Shin Han, Yuan-Yao Sung, Yi Lee, **Hung-Yueh Chiang**, Kai-Chiang Wu, ICCVW 2021
- A Unified Point-based Framework for 3D Point Cloud Segmentation. Hung-Yueh Chiang, Yen-Liang Lin, Yueh-Chen Liu, Winston Hsu. 3DV 2019
- Learning from 2D: Pixel-to-Point Knowledge Transfer for 3D Pretraining. Yueh-Cheng Liu, Yu-Kai Huang, Hung-Yueh Chiang, Hung-Ting Su, Zhe-Yu Liu, Chin-Tang Chen, Ching-Yu Tseng, and Winston Hsu, Arxiv 2021
- Cross-Domain Image-Based 3D Shape Retrieval by View Sequence Learning. Tang Lee, Yen-Liang Lin, Hung-Yueh Chiang, Ming-Wei Chiu, Winston Hsu. 3DV 2018 (Oral)