Chieh Hubert Lin

hubert052702@gmail.com | hubert0527.github.io | hubert0527

Education

University of California, Merced (UC Merced) *Jan. 2021 - Now* *Merced, CA, U.S.*

- Ph.D. in EECS, working with Ming-Hsuan Yang.
- Works on general topics in computer vision and generative modeling.

National Tsing-Hua University (NTHU) *Sep. 2013 - June. 2018* *Hsingchu, Taiwan*

- B.S. in CS (major GPA: 3.65/4.3).
- Published one paper to ECCV as a co-first author and submitted one paper as a first author before graduation.
- Works on generative modeling, neural architecture search and natural language processing.

Publications

(* indicates equal contribution.)

Image Outpainting with Generative Model Inversion *Under submission*

Yen-Chi Cheng, ***Chieh Hubert Lin***, Sergey Tulyakov, Hsin-Ying Lee, Ming-Hsuan Yang *Nov. 2020*

- Under submission.

InstaNAS: Instance-aware Neural Architecture Search ***AAAI'20***

An-Chieh Cheng*, ***Chieh Hubert Lin****, Da-Cheng Juan, Wei Wei, Min Sun *Feb. 2020*

- Proposes and investigates instance-aware setting for neural architecture search (NAS). [Paper] [Project Page]

COCO-GAN: Generation by Parts via Conditional Coordinating (oral presentation) ***ICCV'19***

Chieh Hubert Lin, Chia-Che Chang, Yu-Sheng Chen, Da-Cheng Juan, Wei Wei, Hwann-Tzong Chen *Mar. 2019*

- Proposes the conditional coordinating framework with a wide-range of applications. [Paper] [Project Page]

Point-to-Point Video Generation ***ICCV'19***

Tsun-Hsuan Wang*, Yen-Chi Cheng*, ***Chieh Hubert Lin***, Hwann-Tzong Chen, Min Sun *Mar. 2019*

- Proposes a new video generative model setting that can benefit video editing. [Paper] [Project Page]

Toward Instance-aware Neural Architecture Search ***ICML'19 AutoML Workshop***

An-Chieh Cheng*, ***Chieh Hubert Lin****, Da-Cheng Juan, Wei Wei, Min Sun *Jun. 2019*

- A technical report for InstaNAS.

3D LiDAR and Stereo Fusion using Stereo Matching Network with Conditional Cost Volume Normalization ***IROS'19***

Tsun-Hsuan Wang, Hou-Ning Hu, ***Chieh Hubert Lin***, Yi-Hsuan Tsai, Wei-Chen Chiu, Min Sun *Apr. 2019*

- Proposes a normalization algorithm for fusing sparse sensory data (3D LiDAR) and dense imagery data (stereo image). [Paper] [Project Page]

Escaping from Collapsing Modes in a Constrained Space ***ECCV'18***

Chia-Che Chang*, ***Chieh Hubert Lin****, Che-Rung Lee, Da-Cheng Juan, Wei Wei, Hwann-Tzong Chen *Mar. 2018*

- A light-weight solution toward the mode-collapsing problem of BEGAN. [Paper]

Professional Activities

Serves as a reviewer for CVPR, ICCV, ECCV, ICLR, ICML and AAAI.

Research Experience

Visiting Scholar @ Vision and Learning Lab, Virginia Tech *Sep. 2019 - Jan. 2020* *Blacksburg, VA, U.S.*

- Conduct research in 3D photo rendering with Jia-Bin Huang (VT).

Research Assistant @ Vision Science Lab, National Tsing Hua University *Jul. 2018 - Aug. 2019* *Taiwan*

- Conduct research in neural architecture search, meta-learning and generative modeling with Min Sun (NTHU), Wei-Chen Chiu (NCTU), Da-Cheng Juan (Google) and Wei Wei (Google).
- Spare-time research in generative modeling with Hwann-Tzong Chen (NTHU), Da-Cheng Juan (Google) and Wei Wei (Google).
- Four papers accepted to ICCV'19 and IROS'19.

Student Researcher @ National Tsing Hua University *Jun. 2017 - Feb. 2018* *Taiwan*

- Conduct research in generative modeling with Hwann-Tzong Chen (NTHU), Da-Cheng Juan (Google) and Wei Wei (Google).
- One paper accepted to ECCV'18.

Work Experience

Full-Year Intern @ Microsoft BingGC team *Jul. 2017 - Jun. 2018* *Taiwan*

- BingGC team develops the next generation maps engine based on machine-learning-based geocoding algorithms.
- Responsible for analyzing the failures of machine learning models, improving model performance and fixing low-level system issues.
- Develops a visualization framework for model dissection.

Honors & Awards

Sep. 2019 **Yahoo AI Scholarship**, Yahoo
Aug. 2019 **Appier AI Scholarship**, Appier
Aug. 2018 **Appier AI Scholarship**, Appier
Dec. 2017 **Honorable Mention**, Ministry of Science and Technology GAN Workshop