

# Chieh Hubert Lin

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## 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 computer vision, specialized in scene-level synthesis and reconstruction.

### National Tsing-Hua University (NTHU) *Sep. 2013 - June. 2018*

*Hsingchu, Taiwan*

- B.S. in Computer Science.
- Published two papers to ECCV and ICCV as the leading author.
- Works on generative modeling, neural architecture search and natural language processing.

## Publications

(\* indicates equal contribution.)

### DreaMo: Articulated 3D Reconstruction From A Single Casual Video

**WACV'25**

TAO TU, MING-FENG LI, [Chieh Hubert Lin](#), YEN-CHI CHENG, MIN SUN, MING-HSUAN YANG

*Dec. 2023*

[\[Paper\]](#) [\[Project Page\]](#)

### Taming Latent Diffusion Model for Neural Radiance Field Inpainting

**ECCV'24**

[Chieh Hubert Lin](#), CHANGIL KIM, JIA-BIN HUANG, QINBO LI, CHIH-YAO MA, JOHANNES KOPF, MING-HSUAN YANG, HUNG-YU TSENG

*Sep. 2024*

[\[Paper\]](#) [\[Project Page\]](#)

### InfiniCity: Infinite-Scale City Synthesis

**ICCV'23**

[Chieh Hubert Lin](#), HSIN-YING LEE, WILLI MENAPACE, MENGLEI CHAI, ALIAKSANDR SIAROHIN, MING-HSUAN YANG, SERGEY TULYAKOV

*Oct. 2023*

[\[Paper\]](#) [\[Project Page\]](#)

### Unveiling The Mask of Position-Information Pattern Through the Mist of Image Features

**ICML'23**

[Chieh Hubert Lin](#), HSIN-YING LEE, HUNG-YU TSENG, MANEESH SINGH, MING-HSUAN YANG

*Jul. 2023*

[\[Paper\]](#)

### In&Out: Diverse Image Outpainting via GAN Inversion

**CVPR'22**

YEN-CHI CHENG, [Chieh Hubert Lin](#), HSIN-YING LEE, JIAN REN, SERGEY TULYAKOV, MING-HSUAN YANG

*Jun. 2022*

[\[Paper\]](#) [\[Project Page\]](#)

### InfinityGAN: Towards Infinite-Pixel Image Synthesis

**ICLR'22**

[Chieh Hubert Lin](#), HSIN-YING LEE, YEN-CHI CHENG, SERGEY TULYAKOV, MING-HSUAN YANG

*Apr. 2022*

[\[Paper\]](#) [\[Project Page\]](#)

### InstaNAS: Instance-aware Neural Architecture Search

**AAAI'20**

AN-CHIEH CHENG\*, [Chieh Hubert Lin](#)\*, DA-CHENG JUAN, WEI WEI, MIN SUN

*Feb. 2020*

[\[Paper\]](#) [\[Project Page\]](#)

### 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*

[\[Paper\]](#) [\[Project Page\]](#)

### Point-to-Point Video Generation

**ICCV'19**

TSUN-HSUAN WANG\*, YEN-CHI CHENG\*, [Chieh Hubert Lin](#), HWANN-TZONG CHEN, MIN SUN

*Mar. 2019*

[\[Paper\]](#) [\[Project Page\]](#)

## 3D LiDAR and Stereo Fusion using Stereo Matching Network with Conditional Cost Volume Normalization

ROS'19

Apr. 2019

TSUN-HSUAN WANG, HOU-NING HU, [Chieh Hubert Lin](#), YI-HSUAN TSAI, WEI-CHEN CHIU, MIN SUN

[\[Paper\]](#) [\[Project Page\]](#)

## Escaping from Collapsing Modes in a Constrained Space

ECCV'18

Mar. 2018

CHIA-CHE CHANG\*, [Chieh Hubert Lin](#)\*, CHE-RUNG LEE, DA-CHENG JUAN, WEI WEI, HWANN-TZONG CHEN

[\[Paper\]](#)

## Professional Activities

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Served as a reviewer for:

- **(Journal) Computer Vision:** TPAMI, IJCV.
- **(Conference) Computer Vision:** CVPR'24, CVPR'23, ICCV'23, CVPR'22, ICCV'21, CVPR'21, WACV'21, CVPR'20, ICCV'19.
- **(Conference) Machine Learning:** NeurIPS'24, NeurIPS'23, ICLR'23, NeurIPS'22, NeurIPS'21, ICLR'21, ICML'20.
- **(Conference) Graphics:** Siggraph'24, Eurographics'23.
- **(Conference) Artificial Intelligence:** AAAI'23, IJCAI'23, AAAI'22, AAAI'20, AAAI'19.

## Media Reports

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### What It Looks Like When AI Designs a City. Sep. 2023

Bloomberg

<https://www.bloomberg.com/news/features/2023-09-16/ai-invades-urban-planning-and-design-with-mixed-results>

### AI generates virtual 3D cities that extend infinitely in any direction. Feb. 2023

NewScientist

<https://www.newscientist.com/article/2358993-ai-generates-virtual-3d-cities-that-extend-infinitely-in-any-direction/>

## Work Experience

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### Research Intern @ RL Surreal, Meta. Aug. 2024 - Feb 2025

Redmond, WA, U.S.

- Works on feed-forward dynamic reconstruction with [Zhengqin Li](#), [Zhaoyang Lv](#), [Zhao Dong](#), and the Digital Twin Gen team.

### Research Intern @ XR Photoreal, Meta. Aug. 2023 - Mar. 2024

Seattle, WA, U.S.

- Works on generative scene completion with [Hung-Yu Tseng](#), and the XR Photoreal team.

### Research Intern @ Creative Vision, Snap Inc. May. 2022 - Aug. 2023

Santa Monica, CA,  
U.S.

- Works on generative modeling with [Hsin-Ying Lee](#), [Aliaksandr Siarohin](#), [Menglei Chai](#) and [Sergey Tulyakov](#).

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

Taiwan

- Works on neural architecture search, meta-learning and generative modeling with [Min Sun](#) (NTHU), [Wei-Chen Chiu](#) (NCTU), [Da-Cheng Juan](#) (Google) and [Wei Wei](#) (Google).
- Works on generative modeling with [Hwann-Tzong Chen](#) (NTHU), [Da-Cheng Juan](#) (Google) and [Wei Wei](#) (Google).
- Four papers accepted to ICCV'19, IROS'19 and AAAI'20.

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

Taiwan

- Works on generative modeling with [Hwann-Tzong Chen](#) (NTHU), [Da-Cheng Juan](#) (Google) and [Wei Wei](#) (Google).
- One paper accepted to ECCV'18.

### Full-Year Software Engineer Intern @ Microsoft BingGC team Jul. 2017 - Jun. 2018

Taiwan

## Honors & Awards

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Dec. 2022 **Snap Fellowship Honorable Mentions**, Snap Inc., US

Jun. 2022 **Bobcat Fellowship**, UC Merced, US

Jun. 2021 **Bobcat Fellowship**, UC Merced, US

Jan. 2021 **Bobcat Fellowship**, UC Merced, US

Sep. 2019 **Yahoo AI Scholarship**, Yahoo, Taiwan

Aug. 2019 **Appier AI Scholarship**, Appier, Taiwan

Aug. 2018 **Appier AI Scholarship**, Appier, Taiwan

Dec. 2017 **Honorable Mention**, Ministry of Science and Technology GAN Workshop, Taiwan