

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](#), [Hsin-Ying Lee](#), [Hung-Yu Tseng](#) and [Sergey Tulyakov](#).
- 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.)

Scene Completion

TBA

[Chieh Hubert Lin](#), HUNG-YU TSENG, TBA

TBA

[TBA](#)

NeurAlchemist: Towards Physically Based Rendering with Diffusion Models

TBA

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

TBA

[TBA](#)

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

IROS'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

Served as a reviewer for:

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

Media Reports

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

Research Intern @ XR Photoreal, Meta. Aug. 2023 -

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

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