

Yung-Hsu (Roy) Yang

Ph.D. student, [CVG, ETH Zurich](#)

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Education

ETH Zurich

Ph.D. student in Computer Science

Supervisor: Prof. [Marc Pollefeys](#)

Research Topics: 3D Scene Understanding in the wild

Switzerland

Jan 2023 - present

National Tsing Hua University

MSc in Electrical Engineering

Supervisor: Prof. [Min Sun](#)

Research Topics: 3D Perception for Autonomous Driving

Taiwan

Sep 2020 - Jun 2022

National Tsing Hua University

BSc in Electrical Engineering

Focus: Computer Science, Machine Learning, Circuit Design

Taiwan

Sep 2016 - Jun 2020

Experience

Tera Thinker Technology Inc.

Back-end and Model Developer

Project: Developing Deep Knowledge Tracing Model services under

Flash framework on Google Application Engine.

Taiwan

July 2019 - Jun 2022

Umbo Computer Vision Inc.

Quality Assurance Intern

Project: Automatic testing for the production and design

the image blurring detection for the alert.

Taiwan

Sep 2019 - Dec 2019

Research Center for Information Technology Innovation (CITI) at Academia Sinica

Research Intern

Supervisor: Prof. [Yu Tsao](#)

Project: Automatic Speech Recognition (ASR).

Taiwan

Jun 2019 - Sep 2019

Publication ([Google Scholar](#))

Yung-Hsu Yang, Luigi Piccinelli, Mattia Segu, Siyuan Li, Rui Huang, Yuqian Fu, Marc Pollefeys, Hermann Blum, Zuria Bauer. [3D-MOOD: Lifting 2D to 3D for Monocular Open-Set Object Detection](#). **ICCV 2025**

Tobias Fischer, Samuel Rota Bulò, **Yung-Hsu Yang**, Nikhil Varma Keetha, Lorenzo Porzi, Norman Müller, Katja Schwarz, Jonathon Luiten, Marc Pollefeys, Peter Kotschieder. [FlowR: Flowing from Sparse to Dense 3D Reconstructions](#). **ICCV 2025 (Highlight)**

Luigi Piccinelli, Christos Sakaridis, Mattia Segu, **Yung-Hsu Yang**, Siyuan Li, Wim Abbeloos, Luc Van Gool. [UniK3D: Universal Camera Monocular 3D Estimation](#). **CVPR 2025**

Mattia Segu, Luigi Piccinelli, Siyuan Li, **Yung-Hsu Yang**, Bernt Schiele, Luc Van Gool. [Samba: Synchronized Set-of-Sequences Modeling for End-to-end Multiple Object Tracking](#). **ICLR 2025 (Spotlight)**

Siyuan Li, Lei Ke, **Yung-Hsu Yang**, Luigi Piccinelli, Mattia Segu, Martin Danelljan, Luc Van Gool. [SLAck: Semantic, Location, and Appearance Aware Open-Vocabulary Tracking](#). **ECCV 2024**

Luigi Piccinelli, **Yung-Hsu Yang**, Christos Sakaridis, Mattia Segu, Siyuan Li, Luc Van Gool, Fisher Yu. [UniDepth: Universal Monocular Metric Depth Estimation](#). **CVPR 2024** (**Highlight**)

Nicolas Baumann*, Michael Baumgartner*, Edoardo Ghignone*, Jonas Kühne*, Tobias Fischer, **Yung-Hsu Yang**, Marc Pollefeys, Michele Magno. [CR3DT: Camera-RADAR Fusion for 3D Detection and Tracking](#). **IROS 2024**

Yung-Hsu Yang, Thomas E. Huang, Min Sun, Samuel Rota Bulò, Peter Kotschieder, Fisher Yu. [Dense Prediction with Attentive Feature Aggregation](#). **WACV 2023**

Tobias Fischer*, **Yung-Hsu Yang***, Suryansh Kumar, Min Sun, Fisher Yu. [CC-3DT: Panoramic 3D Object Tracking via Cross-Camera Fusion](#). **CoRL 2022**

Hou-Ning Hu, **Yung-Hsu Yang**, Tobias Fischer, Trevor Darrell, Fisher Yu, Min Sun. [Monocular Quasi-Dense 3D Object Tracking](#). **TPAMI 2022**

Teaching

Teaching Assistant, [Computer Vision](#), Fall 2025

Teaching Assistant, [Advanced Topics in Embodied Intelligence](#), Spring 2025

Teaching Assistant, [Image Analysis and Computer Vision](#), Fall 2024

Teaching Assistant, [Stochastics and Machine Learning](#), Spring 2024

Teaching Assistant, [Image Analysis and Computer Vision](#), Fall 2023

Selected Projects

Vis4D

Main contributor (Python, PyTorch, PyTorch Lightning)

Aug 2021 - Present

- A modular library for 4D scene understanding.
- Website: <https://github.com/SysCV/vis4d>

Academic Services

- Conference Reviewer: CVPR, ICCV, ECCV, NeurIPS, ICLR, ICML, AAAI, ACM MM, 3DV, WACV
- Journal Reviewer: TPAMI, RA-L