

Yen-Yu Chang

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Research Interests

3D Reconstruction and Generation, Motion Analysis, View Synthesis

Education

Cornel Tech, Cornell University

Ph.D. Student in Computer Science

Advisor: Prof. Noah Snavely

New York, NY

2022 – Present

Stanford University

MS in Electrical Engineering

Advisors: Prof. Jure Leskovec, Prof. Leonidas Guibas, Prof. Jiajun Wu

Stanford, CA

2019 – 2021

National Taiwan University

BS in Electrical Engineering

GPA: 3.8/4.0

Taipei, Taiwan

2014 – 2018

Publications

GroundNeRF: Augmenting Scenes with a Ground Plane for Improved Sparse-view Reconstruction

Yen-Yu Chang, Noah Snavely.

Under review

Tracking Everything Everywhere All at Once

Qianqian Wang, Yen-Yu Chang, Ruojin Cai, Zhengqi Li, Bharath Hariharan, Aleksander Holynski, Noah Snavely.

*International Conference on Computer Vision (ICCV), 2023, **Oral, Best Student Paper.***

Learning Object-centric Neural Scattering Functions for Free-viewpoint Relighting and Scene Composition

Hong-Xing Yu*, Michelle Guo*, Alireza Fathi, Yen-Yu Chang, Eric Ryan Chan, Ruohan Gao, Thomas Funkhouser, Jiajun Wu.

Transactions on Machine Learning Research (TMLR), 2023.

Point2Cyl: Reverse Engineering 3D Objects from Point Clouds to Extrusion Cylinders

Mikaela Angelina Uy*, Yen-Yu Chang*, Minhuk Sung, Purvi Goel, Joseph Lambourne, Tolga Birdal, Leonidas Guibas.

Computer Vision and Pattern Recognition (CVPR), 2022.

OBJECTFOLDER 2.0: A Multisensory Object Dataset for Sim2Real Transfer

Ruohan Gao*, Zilin Si*, Yen-Yu Chang*, Samuel Clarke, Jeannette Bohg, Li Fei-Fei, Wen-zhen Yuan, Jiajun Wu.

Computer Vision and Pattern Recognition (CVPR), 2022.

ObjectFolder: A Dataset of Objects with Implicit Visual, Auditory, and Tactile Representations

Ruohan Gao, Yen-Yu Chang*, Shivani Mall*, Li Fei-Fei, Jiajun Wu.

Conference on Robot Learning (CoRL), 2021.

Inductive Representation Learning in Temporal Networks via Causal Anonymous Walks

Yanbang Wang, Yen-Yu Chang, Yunyu Liu, Pan Li, Jure Leskovec.

International Conference on Learning Representations (ICLR), 2021.

F-FADE: Frequency Factorization for Anomaly Detection in Edge Streams

Yen-Yu Chang, Pan Li, Rok Sodic, M. H. Afifi, Marco Schweighauser, Jure Leskovec.

International Conference on Web Search and Data Mining (WSDM), 2021.

A Regulation Enforcement Solution for Multi-agent Reinforcement Learning

Fan-Yun Sun, Yen-Yu Chang, Yueh-Hua Wu, Shou-De Lin.

International Conference on Autonomous Agents and Multiagent Systems (AAMAS), 2019.

Designing Non-greedy Reinforcement Learning Agents with Diminishing Reward Shaping

Fan-Yun Sun, Yen-Yu Chang, Yueh-Hua Wu, Shou-De Lin.

AAAI/ACM Conference on Artificial Intelligence, Ethics, and Society (AIES), 2018.

A Memory-Network Based for Multivariate Time-Series Forecasting

Yen-Yu Chang, Fan-Yun Sun, Yueh-Hua Wu, Shou-De Lin.

preprint.

**Research
Experiences**

Deep Imagination Research at Nvidia

Research Internship

Mentors: Zekun Hao, Ming-Yu Liu

Topics: 3D mesh generation and processing

Santa Clara, CA
May. 2024 – Present

Stanford Vision and Learning Lab (SVL)

Research Assistant

Mentors: Prof. Jiajun Wu, Prof. Fei-Fei Li, Dr. Ruohan Gao

Topics: Neural rendering, multimodal learning

Stanford, CA
Feb. 2021 – Dec. 2021

Stanford Geometric Computation Group

Graduate Researcher

Mentors: Prof. Leonidas Guibas, Mikaela Uy

Topics: 3D computer vision, CAD reverse engineering

Stanford, CA
Feb. 2021 – Aug. 2021

Stanford Network Analysis Project (SNAP)

Research Assistant

Mentors: Prof. Jure Leskovec, Prof. Pan Li, Dr. Rok Sodic

Topics: Graph representation learning, anomaly detection

Stanford, CA
Jul. 2019 – Jan. 2021

**Teaching
Experiences**

Teaching assistant, Cornell University

CS 4620: Introduction to Computer Graphics

CS 5670: Computer Vision

CS 5785: Applied Machine Learning

Fall 2022
Spring 2024
Fall 2024

Awards

4th Place, KDD Cup 2018 Special Prize

Dean's list, GPA in top 5% in Department of Electrical Engineering

2018
2016