

# Yen-Yu Chang

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## Research Interests

3D Reconstruction, 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

### 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\*, Minhyuk 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, Wenzhen 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.*

**ANS: Adaptive Network Scaling for Deep Rectifier Reinforcement Learning Models**  
Yueh-Hua Wu, Fan-Yun Sun, Yen-Yu Chang, Shou-De Lin.  
*preprint.*

**A Memory-Network Based for Multivariate Time-Series Forecasting**  
Yen-Yu Chang, Fan-Yun Sun, Yueh-Hua Wu, Shou-De Lin.  
*preprint.*

<b>Research Experiences</b>	<b>Stanford Vision and Learning Lab (SVL)</b> Research Assistant Mentors: Prof. Jiajun Wu, Prof. Fei-Fei Li, Dr. Ruohan Gao Topics: Neural rendering, multimodal learning	Stanford, CA Feb. 2021 – Dec. 2021
	<b>Stanford Geometric Computation Group</b> Graduate Researcher Mentors: Prof. Leonidas Guibas, Mikaela Uy Topics: 3D computer vision, CAD reverse engineering	Stanford, CA Feb. 2021 – Aug. 2021
	<b>Stanford Network Analysis Project (SNAP)</b> Research Assistant Mentors: Prof. Jure Leskovec, Prof. Pan Li, Dr. Rok Sodic Topics: Graph representation learning, anomaly detection	Stanford, CA Jul. 2019 – Jan. 2021
<b>Teaching Experiences</b>	<b>Teaching assistant, Cornell University</b> CS 4620: Introduction to Computer Graphics	Fall 2022
<b>Industry Experiences</b>	<b>Horizon Robotics</b> Research Engineer	Cupertino, CA Jan. 2022 – Jun. 2022
<b>Awards</b>	4th Place, KDD Cup 2018 Special Prize Dean's list, GPA in top 5% in Department of Electrical Engineering	2018 2016
<b>Skills</b>	<b>Programming</b> Python, PyTorch, Tensorflow, C/C++  <b>Languages</b> Mandarin (native), English (fluent)	