

YUJIN CHEN

Munich, Germany

terencecyj@gmail.com | <https://terencecyj.github.io/>

EDUCATION

Technical University of Munich, Visual Computing Lab

Ph.D. Candidate in Computer Science

Munich, Germany

Jul. 2021 – Present

Wuhan University, State Key Lab of LIESMARS

M.S. in Photogrammetry, Cartography and Geographic Information Engineering

Wuhan, China

Sep. 2018 – Jun. 2021

Wuhan University, School of Geodesy and Geomatics

B.E. in Geomatics Engineering

Wuhan, China

Sep. 2014 – Jun. 2018

RESEARCH EXPERIENCE

Research Scientist Intern, Meta Reality Labs

Human-Object Motion, Tactile Sensing, Vision-Language Model, Multi-Modality Model

Redmond, WA, U.S.

Jul. 2025 – Nov. 2025

PhD Student/Research Employee, Technical University of Munich

3D Scene Understanding, Representation Learning, NeRF, 3D Generation

Munich, Germany

Jul. 2021 – Present

Research Intern, Tencent AI Lab

3D Human/Hand Shape Reconstruction

Shenzhen, China

Dec. 2019 – Jun. 2021

Visiting Research Assistant, University at Buffalo

Hand-object 3D Shape Reconstruction

Buffalo, NY, U.S.

Jul. 2019 – Nov. 2019

Research Assistant, Wuhan University

Indoor Visual Positioning, Hand Pose Estimation

Wuhan, China

Jan. 2017 – Jun. 2021

PUBLICATIONS

- Yujin Chen**, Yinyu Nie, Benjamin Ummenhofer, Reiner Birkel, Michael Paulitsch, Matthias Nießner, “PBR-SR: Mesh PBR Texture Super Resolution from 2D Image Priors”, *Neural Information Processing Systems (NeurIPS)*, 2025.
- Yujin Chen**, Yinyu Nie, Benjamin Ummenhofer, Reiner Birkel, Michael Paulitsch, Matthias Müller, Matthias Nießner, “Mesh2NeRF: Direct Mesh Supervision for Neural Radiance Field Representation and Generation”, *European Conference on Computer Vision (ECCV)*, 2024.
- Yujin Chen**, Matthias Nießner, Angela Dai, “4DContrast: Contrastive Learning with Dynamic Correspondences for 3D Scene Understanding”, *European Conference on Computer Vision (ECCV)*, 2022.
- Yujin Chen**, Zhigang Tu, Di Kang, Linchao Bao, Ying Zhang, Xuefei Zhe, Ruizhi Chen, Junsong Yuan, “Model-based 3D Hand Reconstruction via Self-Supervised Learning”, *Conference on Computer Vision and Pattern Recognition (CVPR)*, 2021.
- Yujin Chen**, Zhigang Tu, Di Kang, Linchao Bao, Ruizhi Chen, Zhengyou Zhang, Junsong Yuan, “Joint Hand-Object 3D Reconstruction from a Single Image with Cross-branch Feature Fusion”, *IEEE Transactions on Image Processing (TIP)*, 2021.
- Yujin Chen**, Zhigang Tu, Lihao Ge, Dejun Zhang, Ruizhi Chen, Junsong Yuan, “SO-HandNet: Self-Organizing Network for 3D Hand Pose Estimation with Semi-supervised Learning”, *International Conference on Computer Vision (ICCV)*, 2019.
- Yujin Chen**, Ruizhi Chen, Mengyun Liu, Aoran Xiao, Dewen Wu, Shuheng Zhao, “Indoor Visual Positioning Aided by CNN-Based Image Retrieval: Training-Free, 3D Modeling-Free”, *Sensors*, 2018.
- Junwen Huang, Alexey Artemov, **Yujin Chen**, Shuaifeng Zhi, Kai Xu, Matthias Nießner, “SSR-2D: Semantic 3D Scene Reconstruction from 2D Images”, *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)*, 2024.
- Zhisheng Huang*, **Yujin Chen***, Di Kang, Zhigang Tu, “PHRIT: Parametric Hand Representation with Implicit Template”, *International Conference on Computer Vision (ICCV)*, 2023. **Equal Contribution*.

10. Zhigang Tu, Zhisheng Huang, **Yujin Chen**[†], Di Kang, Linchao Bao, Bisheng Yang, Junsong Yuan, “Consistent 3D Hand Reconstruction in Video via Self-supervised Learning”, IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI), 2023. *Extension of S^2 Hand (CVPR2021)*, [†]*Corresponding authorship*.
11. Jinlu Zhang, Zhigang Tu, Jianyu Yang, **Yujin Chen**, Junsong Yuan, “MixSTE: Seq2seq Mixed Spatio-Temporal Encoder for 3D Human Pose Estimation in Video”, Conference on Computer Vision and Pattern Recognition (CVPR), 2022.
12. Ping Chen, **Yujin Chen**, Dong Yang, Fangyin Wu, Qin Li, Qingpei Xia, Yong Tan, “I2UV-HandNet: Image-to-UV Prediction Network for Accurate and High-fidelity 3D Hand Mesh Modeling”, International Conference on Computer Vision (ICCV), 2021.

INVITED TALKS

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| Contrastive Learning with Dynamic Correspondences for 3D Scene Understanding. <i>HiGraphics, Austria</i> | 2022 |
| Mesh2NeRF: Direct Mesh Supervision for Neural Radiance Field Representation and Generation. <i>TUMVision, Germany</i> | 2024 |

ACADEMIC SERVICES

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| Organizer & Program Chair: ICCV2025 Workshop - Generating Indoor Digital Twins from Videos and Images | |
| Reviewer: CVPR, ICCV, ECCV, NeurIPS, TPAMI, IJCV, TIP, T-CSVT | |
| Head Teaching Assistant, Introduction to Deep Learning (IN2346), TUM | Winter 2022 – Summer 2025 |
| Teaching Assistant, Machine Learning for 3D Geometry (IN2392), TUM | Summer 2022 |
| Teaching Assistant, Advanced Deep Learning for Computer Vision (IN2390), TUM | Winter 2021 |
| Teaching Assistant, Computer Vision Basics, University at Buffalo | Summer 2019 |

AWARDS AND HONORS

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| China National Scholarship (highest scholarship in China), Ministry of Education of China | 2020 |
| Overseas Research Scholarship (top 1%), State Key Lab of LIESMARS | 2019 |
| LIESMARS Freshman Scholarship (top 3%), State Key Lab of LIESMARS | 2018 |
| Technion Summer School Fully Scholarship, Israel Institute of Technology (Technion) | 2018 |
| Outstanding Bachelor Thesis Award, Wuhan University | 2018 |
| China National Endeavor Scholarship (top 3%), Ministry of Education of China | 2015, 2016, 2017 |
| Merit Student Honor (top 10%), Wuhan University | 2016, 2017 |