

YUJIN CHEN

Munich, Germany

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

EDUCATION

Technical University of Munich, Visual Computing Lab <i>Ph.D. Candidate in Computer Science</i>	Munich, Germany Jul. 2021 – Present
Wuhan University, State Key Lab of LIESMARS <i>M.S. in Photogrammetry, Cartography and Geographic Information Engineering</i>	Wuhan, China Sep. 2018 – Jun. 2021
Wuhan University, School of Geodesy and Geomatics <i>B.E. in Geomatics Engineering</i>	Wuhan, China Sep. 2014 – Jun. 2018

RESEARCH EXPERIENCE

Research Scientist Intern, Meta Reality Labs <i>Human-Object Motion, Tactile Sensing, Vision-Language Model, Multi-Modality Model</i>	Redmond, WA, U.S. Jul. 2025 – Nov. 2025
PhD Student/Research Employee, Technical University of Munich <i>3D Scene Understanding, Representation Learning, NeRF, 3D Generation</i>	Munich, Germany Jul. 2021 – Present
Research Intern, Tencent AI Lab <i>3D Human/Hand Shape Reconstruction</i>	Shenzhen, China Dec. 2019 – Jun. 2021
Visiting Research Assistant, University at Buffalo <i>Hand-object 3D Shape Reconstruction</i>	Buffalo, NY, U.S. Jul. 2019 – Nov. 2019
Research Assistant, Wuhan University <i>Indoor Visual Positioning, Hand Pose Estimation</i>	Wuhan, China Jan. 2017 – Jun. 2021

PUBLICATIONS

1. **Yujin Chen**, Yinyu Nie, Benjamin Ummenhofer, Reiner Birk, Michael Paulitsch, Matthias Nießner, “PBR-SR: Mesh PBR Texture Super Resolution from 2D Image Priors”, Neural Information Processing Systems (NeurIPS), 2025.
2. **Yujin Chen**, Yinyu Nie, Benjamin Ummenhofer, Reiner Birk, Michael Paulitsch, Matthias Müller, Matthias Nießner, “Mesh2NeRF: Direct Mesh Supervision for Neural Radiance Field Representation and Generation”, European Conference on Computer Vision (ECCV), 2024.
3. **Yujin Chen**, Matthias Nießner, Angela Dai, “4DContrast: Contrastive Learning with Dynamic Correspondences for 3D Scene Understanding”, European Conference on Computer Vision (ECCV), 2022.
4. **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.
5. **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.
6. **Yujin Chen**, Zhigang Tu, Liuhao 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.
7. **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.
8. 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.
9. 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 S²Hand (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

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

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	<i>Winter 2022 – Summer 2025</i>
Teaching Assistant, Machine Learning for 3D Geometry (IN2392), TUM	<i>Summer 2022</i>
Teaching Assistant, Advanced Deep Learning for Computer Vision (IN2390), TUM	<i>Winter 2021</i>
Teaching Assistant, Computer Vision Basics, University at Buffalo	<i>Summer 2019</i>

AWARDS AND HONORS

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