

# Yujin Chen

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## EDUCATION

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

## RESEARCH EXPERIENCE

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- **Research Scientist Intern, Meta Reality Lab** Redmond, WA, U.S.  
Vision-Language Model, Multi-Modality Model, Human-Object Motion, Tactile Sensing *Jul. 2025 - Nov. 2025*
- **PhD Student/Research Employee, Technical University of Munich** Munich, Germany  
3D Scene Understanding, Representation Learning, NeRF, 3D Generation *Jul. 2021 - Jul. 2026*
- **Research Intern, Tencent AI Lab** Shenzhen, China  
3D Human/Hand Shape Reconstruction *Dec. 2019 - Jun. 2021*
- **Visiting Research Assistant, University at Buffalo** Buffalo, NY, U.S.  
Hand-object 3D Shape Reconstruction *Jul. 2019 - Nov. 2019*
- **Research Assistant, Wuhan University** Wuhan, China  
Indoor Visual Positioning, Hand Pose Estimation *Jan. 2017 - Jun. 2021*

## PUBLICATIONS

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1. **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.
2. **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.
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, 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.
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  $S^2$  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.

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#### AWARDS AND HONORS

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

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#### 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

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#### 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	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