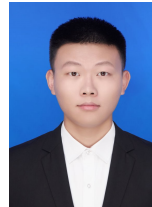


Wenbo Ji

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EDUCATION

- **Technical University of Munich** Oct 2023 - Present
M.Sc - Electrical Engineering and Information Technology - Automation and Robotics
Munich, Germany
 - **Co-supervisors:** Prof. Dr. Daniel Cremers, Dr. Yan Xia, Dr. Chuanxia Zheng
 - **GPA:** 1.7/4.0 (Germany)
 - **Relevant Course:** Machine Learning and Optimization, Optimal control and Decision making
- **Tongji University** Sept 2021 - Aug 2025
M.Sc - Computer Science - Computer Technology
Shanghai, China
 - **Supervisor:** Associate Professor. Gang Wei
 - **GPA:** 4.5/5.0
 - **Relevant Course:** Pattern Recognition, Advanced Image Processing
- **Nanjing Tech University** Sept 2017 - June 2021
B.Sc - Mathematics - Information and Computing Science (Embedded Software)
Nanjing, China
 - **GPA:** 3.5/4.0
 - **Relevant Course:** Numerical Analysis, Computer Graphics, Pattern Recognition

RESEARCH INTERESTS

- **3D Computer Vision, Computer Graphics**
Task: Avatar Animation, 3D Scene Reconstruction, Generative Model

PUBLICATIONS

- **LiteTracker: Leveraging Temporal Causality for Accurate Low-latency Tissue Tracking** 2025
Mert Asim Karaoglu, Wenbo Ji, Ahmed Abbas, Nassir Navab, Benjamin Busam, Alexander Ladikos MICCAI
- **RE0: Recognize Everything with 3D Zero-shot Instance Segmentation** 2025
Xiaohan Yan, Zijian Jiang*, Yinghao Shuai*, Nan Wang, Xiaowei Song, Wenbo Ji, Ge Wu, Jinyu He, Gang Wei, Zhicheng Wang* ICRA

RESEARCH/INTERNSHIP EXPERIENCES

- **One-shot Avatar Reconstruction** Mar 2025 - Now
TUM Visual Computing Group Munich, Germany
 - **Mentor:** Jiapeng Tang
 - **Overview:** Efficient one-shot avatar identity reconstruction based on Gaussian Splatting.
- **Long-term video point tracking** Sept 2024 - Mar 2025
ImFusion GmbH/TUM CAMP Munich, Germany
 - **Co-supervisors:** Dr. Benjamin Busam, Mert Asim Karaoglu, Dr. Alexander Ladikos
 - **Overview:** Efficient any point tracking for endoscopic video.
 - **Publication:** Submitted to MICCAI 2025, Second Authorship
- **Object-Centric 3D Reconstruction and Decomposition** Feb 2024 - Apr 2025
Technical University of Munich/University of Oxford, TUM CVG/TUM DI-LAB/Oxford VGG Munich, Germany
 - **Co-supervisors:** Prof. Dr. Daniel Cremers, Dr. Yan Xia, Dr. Chuanxia Zheng
 - **Overview:** Semantic scene decomposition with unposed image pair based on Gaussian Splatting.
 - **Publication:** Aim to ACMM 2025
- **Stochastic Surface Reconstruction** July 2023 - Oct 2023
Zhejiang University Hangzhou, China
 - **Supervisor:** Prof. Yiyi Liao
 - **Overview:** Efficient point cloud stochastic reconstruction for large-scale scene.

PROJECTS

- **Point Cloud Based Reconstruction of Large-Scale Factory Scenes** April 2021 - Sept 2023
Tongji University, CAD Research Center
◦ **Supervisor:** assoc. prof. Gang Wei
◦ **Overview:** Instance segmentation and reconstruction on large-scale point cloud scene.
- **Pose Estimation of Non-cooperative Target Based on Monocular Images** June 2022 - Sept 2023
Tongji University, CAD Research Center
◦ **Supervisor:** assoc. prof. Zhicheng Wang
◦ **Overview:** Fine-tuning YOLO v7 on Synthetic satellite data.
- **Intelligent Diagnosis of Rectal Cancer Based on Patterns of Lymphatic Metastasis** Sept 2019
The TIPDM Cup Data Mining Challenge Competition, The National Third Prize
◦ **Overview:** Efficient cancer region images segmentation.

SELECTED AWARDS AND HONORS

- **Deutscher Akademischer Austauschdienst (DAAD) Scholarship** 2023-2024
Technical University of Munich
Munich, Germany
- **The First Prize Scholarship** Sept 2017 - June 2021
Nanjing Tech University
Yearly
- **National Encouragement Scholarship** Sept 2020
Nanjing Tech University
Nanjing, China

SKILLS

- **English - B2**
Certificate: CET 6
- **German - B2**
Certificates: Goethe B2, TestDaF
- **Program Languages**
C++, Python
- **Framework & Tool**
Pytorch, CUDA, OpenGL, MATLAB, Blender

01.07.2025