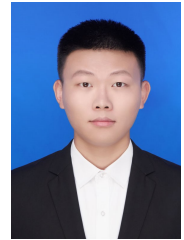# Wenbo Ji

Email: wenboji0420@gmail.com
Homepage: fusheng-ji.github.io
Github: github.com/fusheng-ji
ORCID: 0000-0001-7838-8736

EDUCATION

- **Tongji University** — Shanghai, China
  M.Sc - Computer Science - Electronic Infomation — *Sep 2021 - Present*
  - **Supervisor**: Associate Professor. Gang Wei
  - **GPA**: 4.5/5.0
  - **Relevant Course**: Pattern Recognition, Advanced Image Processing

- **Nanjing Tech University** — Nanjing, China
  B.Sc - Mathematics - Information and Computing Science (Embedded Software) — *Sep 2017 - June 2021*
  - **GPA**: 3.5/4.0
  - **Relevant Course**: Numerical Analysis, Computer Graphics, Pattern Recognition

RESEARCH INTERESTS

- **3D Computer Vision**
  3D Reconstruction (point cloud based), 3D scene understanding, Neural Implicit Representation, Depth Estimation

PROJECTS

- **Point Cloud Based Reconstruction of Large-Scale Factory Scenes** — April 2021 - Present
  Tongji University, CAD Reserach Center (w/ assoc. prof. Gang Wei) — *Shanghai, China*
  - **Working on a pipeline for instance segmentation and surface reconstruction of Large-Scale point cloud.**
  - **Semi-interactive point cloud instance segmentation by combining Sgement Anything with 2D projection of 3D Scenes under different views.**
  - **Implicit neural representation-based Surface reconstruction of each segmented part of the unoriented point cloud.**

- **Pose Estimation of Noncooperative Target Based on Monocular Image Sequences** — June 2022 - Present
  Tongji University, CAD Reserach Center (w/ assoc. prof. Zhicheng Wang) — *Shanghai, China*
  - **Working on tracking and estimation of the posture of non-cooperative targets in space (e.g. disabled satellites) based on monocular image sequences.**
  - **The simulated data obtained based on Blener 3D modelling which contains the state of the target in each attitude.**
  - **Train YOLOv7 based on simulation data for target detection.**
  - **Code**

SELECTED AWARDS AND HONORS

- **The First Prize Scholarship** — Sep 2017 - June 2021
  Nanjing Tech University — *Yearly*

- **National Encouragement Scholarship** — Sep 2020
  Nanjing Tech University — *Nanjing, China*

- **The TIPDM Cup Data Mining Challenge Competition - The National Third Prize** — Sep 2019
  Thesis: "Intelligent Diagnosis of Rectal Cancer Based on Patterns of Lymphatic Metastasis" — *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

Ji Wenbo

24.06.2023