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 — *Sep 2021 - Present*
  - **Supervisor**: Associate Professor. Gang Wei
  - **GPA**: 4.5/5.0
  - **Relevant Coursework**: Pattern Recognition, Advanced Image Processing

- **Nanjing Tech University** — Nanjing, China
  B.Sc - Information and Computing Science (Embedded Software) — *Sep 2017 - June 2021*
  - **GPA**: 3.5/4.0
  - **Relevant Coursework**: Numerical Analysis, Computer Graphics, Pattern Recognition
  - **Clarification**: My major is a branch of mathematics

RESEARCH INTERESTS

- **3D Computer Vision**
  3D Reconstruction (point cloud based), Neural Implicit Representation, Neural Rendering

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 self-supervised instance segmentation and surface reconstruction of point cloud.**
  - **Working with China Three Gorges Corporation for Digital asset management.**
  - **Keyword**: self-supervised instance segmentation, Neural implicit reconstruction

- **Pose Estimation of a Noncooperative Target Based on Monocular Images** — June 2022 - Present
  Tongji University, CAD Reserach Center (w/ assoc. prof. Zhicheng Wang) — *Shanghai, China*
  - **Working on estimation of the posture of non-cooperative targets in space (e.g. disabled satellites) based on monocular image sequences.**
  - **Keyword**: Object Tracking, Depth estimation, map optimization

- **Coordinate-based MLPs** — May 2022
  My toy project — *Shanghai, China*
  - **Reproduction of coordinate-based Networks based on Pytorch-lightning for contrasting the effects of different implicit representations.   Code**

SELECTED AWARDS AND HONORS

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

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

- **Outstanding Graduate** — Fall 2021
  Nanjing Tech University — *Nanjing, China*

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

SKILLS

- **Chinese - C2**
  Native language

- **English - B2**
  Certificates: CET 6

- **German - B2**
  Certificates: Goethe B2, TestDaF

- **Program Languages**
  C++, Python

- **Framework**
  Pytorch, CUDA, OpenGL

- **Tool**
  Blender, Git, Docker, MATLAB