

# Nana Wang 王楠

15516937650 | bigcileng@outlook.com  
Shanghai  
Zhengzhou, Henan | Han  
Job intention: algorithm engineer



## EDUCATION

- Tongji University** 985 211 Double 1st-Class Sep 2022 - Mar 2025  
Computer Science and Technology Master School of Electronics and Information Engineering Shanghai
- Main research direction: Three **-dimensional reconstruction, 3D Gaussian Splatting**
  - Related research content: **Novel-View Synthesis, Neural Representations**
- Southwest Jiaotong University** 211 Double 1st-Class Sep 2018 - Jun 2022  
Computer Science and Technology Bachelor College of Computer and Artificial Intelligence Chengdu
- School-level organization: Park Self-management Committee Media Operations Department **Minister**

## PROFESSIONAL EXPERIENCE

- Tsinghua University Institute of Intelligent Industry (AIR) DISCOVER Lab** Dec 2023 - Mar 2024  
Research interns 3D scene understanding and reconstruction
- Brief introduction: participate in scene understanding and reconstruction related work, responsible for Real2Sim Pipeline construction
  - Build a realistic scene data set, through the scene reconstruction, decoupling, re-organization, combined with GPT4 prior knowledge to build a label and physics attributes of the three-dimensional model data set
  - Establish a complete Real2Sim pipeline, combined with the construction data set can complete the scene decoupling, editing, combined with ISAAC SIM for physical simulation

## PROJECT EXPERIENCE

- Large Scale Digital City Reconstruction** Dec 2023 - Mar 2024
- Project introduction: Through UAV aerial photography of large-scale scene pictures, using 3dgs for digital city reconstruction
  - Project results: complete large-scale digital city reconstruction camera pose estimation, dense reconstruction of the complete pipeline, the use of 3dgs to achieve the neural digital city construction
- LLM Science Exam - Use LLMs to answer difficult science questions** Sep 2023 - Oct 2023
- Project Introduction: By collecting Wikipedia knowledge about scientific issues and using the word bag model to clean up the data. Use the sentence converter to find out the similarity between the question and the cleaned data set. Train three big thesaurus models with different datasets and combine their features to infer the correct answer.
  - Project Outcome: Silver, Kaggle Public Dataset LB Top 3%
- Robot scheduling system based on intelligent control** Mar 2023 - Apr 2023
- Project introduction: The project comes from Huawei Huawei cloud database center 5G operation and maintenance robot application scenarios, through different maps of multiple robots for policy allocation, control scheduling and path planning, so that the robot cluster to achieve optimal scheduling
  - Project achievement: won the second prize of Huawei Software Elite Challenge

## HONORS & AWARDS

- Second prize in the 2023 Huawei Software Elite Challenge 2023.04  
Second prize of national college students life science competition 2021.08  
First prize of the 11th MathorCup university mathematical modeling challenge 2021.05  
Second prize of the 16th May 1 Mathematical Contest in Modeling 2019.05

## SKILLS LIST

- Professional software: MATLAB, AltiumDesigner, SpringBoot, Arduino Comsol, Origin, Ps, Pr, Ai
- programming language: Proficient in C/C, Python. Familiar with deep learning framework Pytorch, Pytorch-lightning, Java, C#, Vue
- Professional ability: familiar with algorithms and data structures, familiar with Linux instructions and Docker, Conda use, TCP/IP network system
- CVsite:<https://bigcileng.github.io/>