# Tianwei Ye

+86-155-7318-3810 | twye2001@gmail.com | Wuhan, China
yetianwei.github.io | GitHub

## Research Interests

My research focuses on 3D computer vision and geometry processing, with broader interests in computer graphics and computer vision. Currently, I am working on 3D shape matching.

## Education

- **Wuhan University (WHU), Multi-Spectral Vision Processing Lab** *Sep 2024 - Present*
  *M.Eng in Electronic Information, advised by* GPA:/4.00
- **Central South University (CSU), School of Electronic Information** *Sep 2020 - Jun 2024*
  *B.Sc in Electronic Information Science and Technology* GPA: 91.25/100

## Publications

1. **Multi-Shape Matching with Cycle Consistency Basis via Functional Maps (Under Review)**
   *Yifan Xia*, Tianwei Ye*, Huabing Zhou, Zhongyuan Wang, Jiayi Ma*
   Proc. AAAI Conference on Artificial Intelligence (AAAI), 2025

## Experience

- **Communist Youth League Committee** *Sep 2020 - Sep 2021*
  *Secretary of the Class Reunion Branch* Central South University
  - Oversaw daily operations and organized class events as the Secretary of the Class Reunion Branch
  - Successfully organized award-winning group activities, receiving two recognitions for excellence
  - Led the branch to be honored with the Outstanding Youth League Branch award
- **Summer Social Practice Activities in Central South University** *Jul 2021*
  *Team Leader* Yongzhou, China
  - Led multiple initiatives to promote mental health education for rural primary and secondary school students
  - Coordinated and organized team efforts, ensuring the successful execution of all campaign activities
  - Awarded the title of Outstanding Individual in Social Practice

## Projects

- **Multi-Disease Recognition of Tunnel Lining Structures via Deep Learning** *Jun 2022 - May 2023*
  *Innovation and Entrepreneurship Program for College Students in Hunan Province*
  - Implemented a SegNet convolutional neural network to accurately recognize GPR data
  - Gained expertise in constructing neural networks and optimizing hyperparameters for improved performance
- **Ancient Glass Composition Analysis and Classification with Intelligent Learning** *Jun 2022 - May 2023*
  *China Undergraduate Mathematical Contest in Modeling (Team Leader)*
  - Solved binary classification problems related to weathering effects on glass using Logistic regression models
  - Applied Random Forest and SOM algorithms to develop a robust model for classifying ancient glass products
  - Authored the project thesis, which secured first prize in Hunan Province

## Skills

- **Software:** Keil, Quartus, Proteus, SPSS
- **Programming:** Python, C/C++, Matlab, LaTeX
- **Operating Systems:** Windows, Lunix
- **Deep Learning Framework:** PyTorch

## Language

- **Chinese:** Native Speaker
- **English:** IELTS 6.5 (Reading: 7.0, Listening: 6.5, Speaking: 5.5, Writing: 6.5); CET-4 598; CET-6 493

## Awards

- **Outstanding Graduates** *Jun 2024*
  *Central South University*
  - Awarded to the top 5% of graduates
- **China Undergraduate Mathematical Contest in Modeling First Prize in Hunan Province** *Oct 2022*
  *China Society for Industrial and Applied Mathematics*
  - Recognized for outstanding problem-solving and modeling skills