Tianwei Ye

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Education

Wuhan University, Multi-Spectral Vision Processing Lab 2024.9 – 2026.6
M.Eng in Electronic Information, supervised by Prof. Jiayi Ma and Prof. Yong Ma

- **GPA:** 3.62/4.00
- **Selected Courses:** Optimization Theory and Methods, Stochastic Processes, Modern Circuit Layout
- **Awards:** The Second Prize Scholarship

Central South University, School of Electronic Information 2020.9 – 2024.6
B.Sc in Electronic Information Science and Technology

- **GPA:** 91.25/100, ranking top 7% out of 150
- **Selected Courses:** Algorithms and Data Structures, Signals and Systems, Digital Signal Processing
- **Awards:** Outstanding Graduates, Merit Student, The First Prize Scholarship, First Prize in Hunan Province Division of the China Undergraduate Mathematical Contest in Modeling

Publications

Multi-Shape Matching with Cycle Consistency Basis via Functional Maps
Yifan Xia*, ***Tianwei Ye****, Huabing Zhou, Zhongyuan Wang, Jiayi Ma 2025

- Proc. of the AAAI Conference on Artificial Intelligence (AAAI), 2025
- A two-stage framework for concise cycle consistency formulation via directed graph optimization

DcMatch: Unsupervised Multi-Shape Matching with Dual-Level Consistency
Tianwei Ye, Yong Ma, Xiaoguang Mei 2026

- Proc. of the AAAI Conference on Artificial Intelligence (AAAI), 2026
- Introduced a graph-based universe embedding and dual-level consistency for multi-shape matching

Probabilistic Deformation Consistency for Unsupervised Shape Matching
Yifan Xia, ***Tianwei Ye***, Jun Huang, Xiaoguang Mei, Jiayi Ma 2026

- Proc. of the AAAI Conference on Artificial Intelligence (AAAI), 2026
- A framework that estimates deformation and correspondence probabilities via an EM formulation

Locality Preservation for Unsupervised Smooth Non-Rigid Shape Matching
Tianwei Ye, Xiaoguang Mei, Yifan Xia, Fan Fan, Jun Huang, Jiayi Ma 2026

- Manuscript in preparation, a locality-preserving approach to enforce smooth correspondence

Projects

Probabilistic Joint Learning for Multimodal Image Matching
NSFC Basic Research Project for Ph.D Students, hosted by Yifan Xia 2025.1 – Present

- Design a probabilistic framework for multimodal image matching, responsible for algorithm design focusing on consistency modeling, geometric constraints, and robustness enhancement.

UAV-Based Hyperspectral Imaging Technology for Precise Detection of Marine Pollution
Supervised by Prof. Xiaoguang Mei and Prof. Jun Huang 2024.9 – Present

- Develop a UAV-based hyperspectral sensing system for marine pollution analysis, responsible for algorithm development on anomaly detection, spectral–spatial modeling, and source localization.

Skills

Mathematics: 3D Geometry, Linear Algebra, Numerical Optimization

Programming: Python, C/C++, Matlab, LaTeX

Deep Learning Framework: PyTorch

Language: English (*Proficient*, IELTS 7.0), Chinese (*Native*)