

Han WU

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RESEARCH INTERESTS

Vision Foundation Models (VFM) for medical image interpretation (e.g., segmentation, landmark detection) and Vision-Language Models (VLM) for image understanding and reasoning.

EDUCATION

ShanghaiTech University

Ph.D. in Computer Science

- Supervisor: [Prof. Dinggang Shen](#)

Wuhan University of Technology

B.E. in Information Engineering

- Outstanding Graduates (Postgraduate Recommendation)

Shanghai, China

Sept. 2022 – Present

Wuhan, China

Sept. 2018 – June 2022

EXPERIENCE

Shanghai United Imaging Intelligence

Research Intern in R&D

- Working with [Dr. Dijia Wu](#)

Shanghai, China

June 2025 – Present

PUBLICATIONS

Preprints / Under Review

- [P1] **CeLDA+: Cephalometric Landmark Detection across Ages with Learnable Prototypical Network**
[Han Wu](#), Wei Jia, Lanzhuju Mei, Tong Yang, Min Zhu, Haizhen Li, Chong Wang, Dinggang Shen, Zhiming Cui
Medical Image Analysis (MedIA). (Under Review)
- [P2] **COMET: Controllable Orthodontic Video Editing with Multi-view Estimation**
Lanzhuju Mei, Yulong Dou, [Han Wu](#), Guo Chen, Zhiming Cui, Dinggang Shen
IEEE Transactions on Image Processing (IEEE TIP). (Under Review)
- [P3] **Two-Stage Robust 3D CTA–2D DSA Alignment via Vascular-aware Rigid and Pyramid-Based Hierarchical Non-rigid Registration**
Xiaosong Xiong, Caiwen Jiang, [Han Wu](#), Xiao Zhang, Peng Wu, Yanli Song, Xinyi Zhang, Dijia Wu, Dinggang Shen
Medical Image Analysis (MedIA). (Major Revision)

Conference Papers

- [C1] **Weakly-Supervised Coronary Artery Segmentation from DSA Sequence via Motion-Aware Modeling**
[Han Wu](#), Xiaosong Xiong, Yanli Song, Yiqiang Zhan, Sean Zhou, Dijia Wu, Dinggang Shen
MICCAI 2026.
- [C2] **Adapting Foundation Model for Dental Caries Detection with Dual-View Co-Training**
Tao Luo*, [Han Wu](#)*, Tong Yang, Dinggang Shen, Zhiming Cui
MICCAI 2025.
- [C3] **A Semi-Supervised Knowledge Distillation Framework for Left Ventricle Segmentation and Landmark Detection in Echocardiograms**
Haoyuan Chen, Yonghao Li, Long Yang, [Han Wu](#), Lin Zhou, Kaicong Sun, Dinggang Shen
MICCAI 2025.
- [C4] **Cephalometric Landmark Detection across Ages with Prototypical Network**
[Han Wu](#), Chong Wang, Lanzhuju Mei, Tong Yang, Min Zhu, Dinggang Shen, Zhiming Cui
MICCAI 2024.
- [C5] **Multi-View Vertebra Localization and Identification from CT Images**
[Han Wu](#), Jiadong Zhang, Yu Fang, Zhentao Liu, Nizhuan Wang, Zhiming Cui, Dinggang Shen
MICCAI 2023.

Journal Articles

- [J1] **Semi-Supervised Landmark Tracking in Echocardiography Video via Spatial-Temporal Co-Training and Perception-Aware Attention**
[Han Wu](#), Haoyuan Chen, Lin Zhou, Qi Xu, Zhiming Cui, Dinggang Shen
IEEE Transactions on Medical Imaging (IEEE TMI), 2026.
- [J2] **Dual Cross-image Semantic Consistency with Self-aware Pseudo Labeling for Semi-supervised Medical Image Segmentation**
[Han Wu](#), Chong Wang, Zhiming Cui
IEEE Transactions on Medical Imaging (IEEE TMI), 2025.
- [J3] **Clinical Knowledge-Informed Diffusion Model for Tooth Alignment**
Yulong Dou, [Han Wu](#), Guangshun Wei, Chen Wang, Tong Yang, Changjian Li, Dinggang Shen, Zhiming Cui
Medical Image Analysis (MedIA), 2025.
- [J4] **Fully Automated Evaluation of Condylar Remodeling after Orthognathic Surgery in Skeletal Class II Patients Using Deep Learning and Landmarks**
Wei Jia, [Han Wu](#), Lanzhuju Mei, Jiamin Wu, Minjiao Wang, Zhiming Cui
Journal of Dentistry (JoD), 2025.
- [J5] **CLIP in Medical Imaging: A Comprehensive Survey**
Zihao Zhao*, Yuxiao Liu*, [Han Wu*](#), Mei Wang, Yonghao Li, Sheng Wang, Lin Teng, Disheng Liu, Zhiming Cui, Qian Wang, Dinggang Shen
Medical Image Analysis (MedIA), 2025.
- [J6] **Geometry-Aware Attenuation Field Learning for Sparse-View CBCT Reconstruction**
Zhentao Liu, Yu Fang, Changjian Li, [Han Wu](#), Yuan Liu, Dinggang Shen, Zhiming Cui
IEEE Transactions on Medical Imaging (IEEE TMI), 2024.

AWARDS AND ACHIEVEMENTS

- **Outstanding Student**, ShanghaiTech University, 2023.
- **Outstanding Graduates**, Wuhan University of Technology, 2022.
- **Outstanding Graduation Thesis**, Wuhan University of Technology, 2022.
- **2nd National Prize**, National Undergraduate Engineering Practice and Innovation Competition, 2021.
- **3rd National Prize**, "China Software Cup" College Student Software Design Competition, 2021.
- **1st Prize**, Undergraduate Engineering Practice and Innovation Competition, Hubei Province, 2021.
- **3rd Prize**, National University Student Intelligent Car Race, Hubei Province, 2021.
- **3rd Prize**, National Undergraduate Computer Design Competition, Hubei Province, 2021.
- **Ranked 27/169**, "China Software Cup" College Student Software Design Competition online contest, 2021.
- **3rd Prize**, The 6th "Internet+" Innovation and Entrepreneurship Competition, Hubei Province, 2020.
- **Ranked 3/218**, National University Student Intelligent Car Race Online Tournament: Crowd Counting, 2020.
- **Ranked 15/332**, Baidu AIStudio Regular Season of Bugs Detection, 2020.

SERVICES

Conference Reviewer

- International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI), 2026
- International Conference on Machine Learning in Medical Imaging (MLMI), 2022, 2023, 2024, 2025
- International Conference on Pattern Recognition (ICPR), 2022

Journal Reviewer

- Neural Networks
- Signal Processing
- Digital Signal Processing
- IEEE Transactions on Medical Imaging (IEEE TMI)
- IEEE Transactions on Biomedical Engineering (IEEE TBME)
- IEEE Transactions on Geoscience and Remote Sensing (IEEE TGRS)
- ACM Transactions on Multimedia Computing Communications and Applications (ACM TOMM)