

Zicheng Wang

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EDUCATION

- **University College London** London, UK
PhD student of Neurology Oct. 2025 – Present
 - **Supervisor:** Prof. Parashkev Nachev.
 - **Research Topics:** Blood Modeling, Brain Modeling, etc.
- **University of Sydney** Sydney, Australia
MPhil of Electrical and Information Engineering Mar. 2021 – Sept. 2023
 - **Supervisor:** Prof. Dong Xu (*IEEE Fellow*) and Prof. Luping Zhou.
 - **Grade:** Distinction.
 - **Research Topics:** Label-Efficient Learning, Medical Image Analysis, Point Cloud Recognition, etc.
- **Xidian University** Xi'an, China
Bachelor of Telecommunications Engineering Sept. 2014 – Jun. 2018
 - **Main Courses:** Information Theory, Communication Networks, Advanced Algebra, Probability Theory, etc.
 - **GPA:** 3.5 / 4.0.
 - **Research Topics:** Wireless Communication, Vehicle-to-Everything (V2X), Resource Allocation and Power Control, etc.

RESEARCH EXPERIENCE

- **University College London** London, UK
Research Assistant Sept. 2025 – Present
 - **Supervisor:** Prof. Parashkev Nachev.
 - **Research Interests:** Blood Modeling, Brain Modeling.
- **Shanghai Artificial Intelligence Laboratory** Beijing, China
Research Intern Jul. 2024 – Mar. 2025
 - **Mentor:** Dr. Zhen Zhao.
 - **Research Interests:** Brain Decoding.
 - **Contributions:** Propose a novel unified model for cross-subject brain decoding, firstly enabling effective cross-subject out-of-distribution decoding.
- **University of Hong Kong** Hong Kong, China
Research Assistant Oct. 2023 – Jul. 2024
 - **Supervisor:** Prof. Dong Xu.
 - **Research Interests:** Domain Adaptation, Point Cloud Recognition.
 - **Contributions:** Propose a novel classifier and feature extractor adaptation framework for cross-domain point cloud recognition; propose a novel hybrid Tramba framework for point cloud analysis.
- **Samsung R&D Institute China - Beijing** Beijing, China
Research Intern Jul. 2022 – Dec. 2022
 - **Mentor:** Dr. Zikun Liu.
 - **Research Interests:** Semi-supervised Learning, Semantic Segmentation.
 - **Contributions:** Propose a novel conflict-based cross-view consistency framework for semi-supervised semantic segmentation.

PUBLICATION

My research topics include brain decoding, label-efficient learning, medical image analysis and point cloud recognition, etc.

- **Progressive Classifier and Feature Extractor Adaptation for Unsupervised Domain Adaptation on Point Clouds**
Zicheng Wang, Zhen Zhao, Yiming Wu, Luping Zhou, and Dong Xu
ECCV 2024, accepted.
- **Conflict-Based Cross-View Consistency for Semi-Supervised Semantic Segmentation**
Zicheng Wang, Zhen Zhao, Xiaoxia Xing, Dong Xu, Xiangyu Kong and Luping Zhou
CVPR 2023, accepted.
- **Domain Adaptive Sampling for Cross-Domain Point Cloud Recognition**
Zicheng Wang, Wen Li and Dong Xu
T-CSVT 2023, accepted.
- **Alternate Diverse Teaching for Semi-supervised Medical Image Segmentation**
Zhen Zhao, **Zicheng Wang**, Longyue Wang, Yixuan Yuan, and Luping Zhou
ECCV 2024, accepted.
- **UniBrain: A Unified Lightweight Model for Cross-Subject Brain Decoding**
Zicheng Wang, Zhen Zhao, Luping Zhou, and Parashkev Nachev
arXiv.
- **PoinTramba: A Hybrid Transformer-Mamba Framework for Point Cloud Analysis**
Zicheng Wang, Zhenghao Chen, Yiming Wu, Zhen Zhao, Luping Zhou, and Dong Xu
T-IP, under review.
- **Expert and Non-Expert Model for Medical Image Segmentation with Noisy Labels**
Zicheng Wang, Zhen Zhao, Yiming Wu, Erjian Guo, and Luping Zhou
arXiv.
- **Imbalanced Medical Image Segmentation with Pixel-dependent Noisy Labels**
Erjian Guo, **Zicheng Wang**, Zhen Zhao, and Luping Zhou
T-MI 2025, accepted.
- **DiN: Diffusion Model for Robust Medical VQA with Semantic Noisy Labels**
Erjian Guo, Zhen Zhao, **Zicheng Wang**, Tong Chen, Yunyi Liu, and Luping Zhou
CVPR 2025, accepted.
- **Prototype-Assisted Collaborative Learning for Medical Image Segmentation with Noisy Labels**
Erjian Guo, Zhen Zhao, **Zicheng Wang**, and Luping Zhou
MIA, under review.

HONORS

- **University of Sydney International Scholarship** 2024
University of Sydney
- **IEEE TMI Distinguished Reviewer** 2023 - 2024
IEEE TMI
- **First-Class Scholarship** 2018
Xidian University
- **Recommended Graduate Student** 2017
Xidian University

- Individual Scholarship 2016
Xidian University
- Individual Scholarship 2015
Xidian University

ACADEMIC SERVICES

- **Journal reviewer:**
T-PAMI, T-IP, T-MI, T-CSVT, MIA, etc
- **Conference reviewer:**
CVPR, AAAI, IJCAI, ICME, ICASSP, etc

SKILLS

- **Languages:** IELTS - 7.0.
- **Programming:** Python (Pytorch, Numpy, etc.), MATLAB, etc.
- **Miscellaneous:** Ubuntu, L^AT_EX, etc.
- **Hobbies:** Photography, Hiking, Cycling, Badminton, Skiing, etc.