

# Zicheng Wang

Mail : xiaoyao3302@outlook.com

GitHub: <https://github.com/xiaoyao3302>

Website: <https://xiaoyao3302.github.io>

## EDUCATION

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- **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

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- **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

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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

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| • <b>University of Sydney International Scholarship</b><br><i>University of Sydney</i> | 2024        |
| • <b>IEEE TMI Distinguished Reviewer</b><br><i>IEEE TMI</i>                            | 2023 - 2024 |
| • <b>First-Class Scholarship</b><br><i>Xidian University</i>                           | 2018        |
| • <b>Recommended Graduate Student</b><br><i>Xidian University</i>                      | 2017        |

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

## ACADEMIC SERVICES

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

## SKILLS

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- **Languages:** IELTS - 7.0.
- **Programming:** Python (Pytorch, Numpy, etc.), MATLAB, etc.
- **Miscellaneous:** Ubuntu, L<sup>A</sup>T<sub>E</sub>X, etc.
- **Hobbies:** Photography, Hiking, Cycling, Badminton, Skiing, etc.