

# Zicheng Wang

Mail : xiaoyao3302@outlook.com

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

## EDUCATION

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- **University of Sydney** Sydney, Australia  
• *MPhil of Electrical and Information Engineering* Mar. 2021 – Sept. 2023
  - **Supervisor:** Prof. Dong Xu and Prof. Luping Zhou.
  - **Research Topics:** Label-Efficient Learning, Medical Image Analysis, Point Cloud Recognition, etc.
- **Xidian University** Xi'an, China  
• *Bachelor of Telecommunications Engineering (Subject Ranking, worldwide Top-5)* Sept. 2014 – Jun. 2018
  - **Main Courses:** Information Theory, Communication Networks, Advanced Algebra, Probability Theory, etc.
  - **GPA:** 3.5 / 4.0.

## RESEARCH EXPERIENCE

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- **Pujiang National Laboratory** Beijing, China  
• *Research Intern* Jul. 2024 – Now
  - **Mentor:** Dr. Zhen Zhao.
  - **Research Interests:** AI-Driven Interdisciplinary Research.
- **University of Hong Kong** Hong Kong, China  
• *Research Assistant* Oct. 2023 – Jul. 2024
  - **Supervisor:** Prof. Dong Xu.
  - **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
  - **Contributions:** Propose a novel conflict-based cross-view consistency framework for semi-supervised semantic segmentation.

## PUBLICATION

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

- **Domain Adaptive Sampling for Cross-Domain Point Cloud Recognition**  
Zicheng Wang, Wen Li and Dong Xu  
*T-CSVT 2023, accepted.*
- **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.*
- **Alternate Diverse Teaching for Semi-supervised Medical Image Segmentation**  
Zhen Zhao, Zicheng Wang, Longyue Wang, Yixuan Yuan, and Luping Zhou  
*ECCV 2024, accepted.*
- **Expert and Non-Expert Model for Medical Image Segmentation with Noisy Labels**  
Zicheng Wang, Zhen Zhao, Yiming Wu, Erjian Guo, and Luping Zhou  
*arXiv 2023.*

- **Imbalanced Medical Image Segmentation with Pixel-dependent Noisy Labels**  
 Erjian Guo, **Zicheng Wang**, Zhen Zhao, and Luping Zhou  
*T-MI 2024, under review.*
- **Prototype-Assisted Collaborative Learning for Medical Image Segmentation with Noisy Labels**  
 Erjian Guo, Zhen Zhao, **Zicheng Wang**, and Luping Zhou  
*MIA 2024, under review.*
- **PoinTramba: A Hybrid Transformer-Mamba Framework for Point Cloud Analysis**  
**Zicheng Wang**, Zhenghao Chen, Yiming Wu, Zhen Zhao, Luping Zhou, and Dong Xu  
*arXiv 2024.*

### HONORS

<ul style="list-style-type: none"> <li>• <b>University of Sydney International Scholarship</b> <i>University of Sydney</i></li> </ul>	2024
<ul style="list-style-type: none"> <li>• <b>First-Class Scholarship</b> <i>Xidian University</i></li> </ul>	2018
<ul style="list-style-type: none"> <li>• <b>Recommended Graduate Student</b> <i>Xidian University</i></li> </ul>	2017
<ul style="list-style-type: none"> <li>• <b>Individual Scholarship</b> <i>Xidian University</i></li> </ul>	2016
<ul style="list-style-type: none"> <li>• <b>Individual Scholarship</b> <i>Xidian University</i></li> </ul>	2015

### ACADEMIC SERVICES

- **Journal reviewer:**  
 T-PAMI, T-MI, T-CSVT
- **Conference reviewer:**  
 CVPR, IJCAI, ICME, ICASSP

### SKILLS

- **Languages:** IELTS - 7.0 (Listening: 8.0, Reading: 8.0, Writing: 6.5, Speaking: 6.0).
- **Programming:** Python (Pytorch, Numpy, etc.), MATLAB, etc.
- **Miscellaneous:** Ubuntu, L<sup>A</sup>T<sub>E</sub>X, etc.
- **Hobbies:** Photography, Badminton, Cycling, Skiing, etc.