Jiarui Li

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Education

- **Qingdao University** *2021-2025*
  School of Computer Science and Technology ***Top 10%***

- **University of Sydney** *2025-2026*
  Master of Philosophy(Engineering)

Research Interests

1. Artificial Intelligence, Computer Vision, Medical Image Processing
2. Computer Interdisciplinary, Biomedical Engineering

Publications

1. **Li, J.** (2024). A Deep Learning Method for Document Shadow Removal under Mask Supervision with Sobel Prior. AAAI Undergraduate Consortium.
2. **Li, J.**, Xing, K., Wang, W., Sun, L., Xue, L., Xing, J., Wu, X., Xing, D. (2024). Dynamic Parallel Traction Theoretical Model for the Application and Validation in Femoral Neck Fractures. Journal of Orthopaedics, 64, 7-12.
3. **Li, J.**, Guo, Z., Wang, T., Xing, K., Wang, W., Liu, Y., Xing, J., Xiang, H., Wang, J., Chen, B., Xing, D., Wu, X. (2025). Treatment Trade-Offs and Choices for Femoral Fractures: A Systematic Review and Meta-Analysis. Orthopaedic surgery.

Research Experiences

- **Qingdao University** *2024.5-2024.11*
  Dynamic Parallel Traction Robots
  – Proposed Dynamic Parallel Traction algorithm to compensate the misalignment of traction lines
  – Using finite element analysis in femoral neck fractures to validate its effectiveness
  – This work is published in J Orthop. titled "Dynamic Parallel Traction Theoretical Model for the Application and Validation in Femoral Neck Fractures"
  – We also completed one review titled "Treatment Trade-offs and Choices for Femoral Fractures: A Systematic Review and Meta-analysis" published in OS

- **Westlake University** *2023.10-2024.5*
  Document Shadow Removal
  – Designed a architecture to make the document shadow removal effect
  – Compared our method with others on different datasets
  – This work's proposal is published in AAAI Undergraduate Consortium titled "A Deep Learning Method for Document Shadow Removal with Sobel Prior under Mask Supervision"

Honors Awards

- **Outstanding Student, Qingdao University** *2022*
- **First-Class Scholarship, Qingdao University** *2022*
- **Second Prize, Lanqiao Cup in Shandong Province** *2023*
- **Third Prize, Robocom CAIP Track in Shandong Province** *2023*
- **Honorable Prize, Mathematical Contest in Modeling(MCM)** *2024*
- **AAAI Undergraduate Consortium Scholarship** *2025*

Technical Skills

1. Coding: Python(Pytorch), MATLAB, C/C++
2. Engineering: Mimics, Ansys, Graphpad