



Jiarui Li

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<https://Jerry-page.github.io>

EDUCATION

• Qingdao University

2021-2025

School of Computer Science and Technology Top 10%

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