Xiaoben Li | Curriculum Vitae

lixb1@shanghaitech.edu.cn (+86) 13598937538

RESEARCH INTEREST

3D Computer Vision, 3D Human Pose and Shape Estimation, Medical Image Analysis, Image Reconstruction.

EDUCATION

ShanghaiTech University **Shanghai, China**
M.E. in Computer Science and Technology *Sept. 2021 - Jun. 2024 (expected)*

– GPA: 3.63/4.00
– Supervisor: Prof. Dinggang Shen

Xi'an Jiaotong University **Xi'an, Shaanxi, China**
B.E. in Computer Science and Technology *Sept. 2017 - Jun. 2021*

– GPA: 3.43/4.00
– Centesimal grade average: 84.7/100

WORKING EXPERIENCE

Research Intern, United Imaging Intelligence, Shanghai, China *Sept. 2022 - Present*

- Research topic: Multi-view 3D Human Pose and Shape Estimation
- Mentor: Dr. Fan Yang

RESEARCH EXPERIENCE

Multi-view 3D Human Pose and Shape Estimation *Sept. 2022 - Present*

- Estimating 3D human pose and shape from multi-view images to overcome the problems of depth ambiguity and occlusion.
- Focus on the efficient and effective fusion method of information from multi-view images for better estimation.
- Design a flexible framework for 3D human pose and shape estimation from arbitrary multi-view images.

Multi-modal MRI Fast Reconstruction *Sept. 2021 – Aug. 2022*

- Utilize faster MRI modalities (e.g., T1) to assist reconstruction of down-sampled slower MRI modalities (e.g., T2).
- Extract dual-domain, i.e., image (space) domain and frequency domain information for better reconstruction.
- Semi-supervised learning by introducing cycle-consistency loss to reduce reliance on data with ground-truth labels.

PUBLICATIONS

- **Human Mesh Recovery from Arbitrary Multi-view Images** [arXiv]
  Xiaoben Li, Mancheng Meng, Ziyan Wu, Terrence Chen, Fan Yang, Dinggang Shen
  arXiv preprint, 2024.
- **Self-learning Canonical Space for Multi-view 3D Human Pose Estimation** [arXiv]
  Xiaoben Li, Mancheng Meng, Ziyan Wu, Terrence Chen, Fan Yang, Dinggang Shen
  arXiv preprint, 2024.