Jing WU

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Education

University of Oxford **10/2023-Present**
DPhil. in Engineering Science Oxford, UK
Supervisor: Prof. Victor Adrian Prisacariu & Dr. Iro Laina
Topics: 3D AIGC, Generative AI, 3D Reconstruction

Imperial College London **10/2021-10/2022**
MSc. in Applied Machine Learning **(Distinction)** London, UK

University of Electronic Science and Technology of China **09/2017-06/2021**
BEng. in Electronic Information Engineering Chengdu, China
GPA: 90.73/100

Research Interests

- Generative AI
- 3D Reconstruction (3D Gaussian Splatting, NeRF)

Publication

Accepted

1. **J. Wu***, J.-W. Bian*, X. Li, G. Wang, I. Reid, P. Torr, and V. Prisacariu, "GaussCtrl: Multi-View Consistent Text-Driven 3D Gaussian Splatting Editing," in *ECCV*, 2024 [Paper]
2. P. Wang*, X. Hui*, **J. Wu***, Z. Yang*, K. E. Ong*, X. Zhao, B. Lu, D. Huang, E. Ling, W. Chen, K. T. Ma, M. Hur, and J. Liu, "SemTrack: A Large-scale Dataset for Semantic Tracking in the Wild," in *ECCV*, 2024
3. Y. Li, **J. Wu**, L. Zhao, and P. Liu, "DerainNeRF: 3D Scene Estimation with Adhesive Waterdrop Removal," in *ICRA*, 2024 [Paper]

Research Internship

Computer Vision and Geometric Learning Lab (CVGL) **05/2023-09/2023**
Research Assistant | PI: Prof. Liu Peidong, Westlake University Hangzhou, China
Topic: 3D Vision & NeRF

Vision & Language Group (VLG) **09/2022-03/2023**
Research Internship | PI: Prof. Liu Jun, SUTD Singapore
Topic: Tracking & Scene Graph Generation

Projects

M.Sc. Project: Image Segmentation for Lung Cancer **03/2022-09/2022**
Supervisor: Prof. Dai Wei, EEE, ICL London, UK

- To perform tumour detection and segmentation on medical images (CT), improve model performance, and enhance human interpretability.

Bi-Manual Controlled Differential Drive Robot **10/2021-03/2022**
Supervisor: Prof. Adam Spiers, Prof. Krystian Mikolajczyk, EEE, ICL London, UK

- We built a gesture recognition system to control a robot, which consisted of a hardware part including to IMU sensors and a software part to perform gesture recognition.

Final Year Project: Probability Map Based Pedestrian Skin Detection **10/2020-06/2021**
Supervisor: Prof. Chang Shu, ICE, UESTC Chengdu, China

- Introduced a new algorithm to perform pedestrian skin detection based on a probability map generated through pedestrian poses.

Awards

- The Outstanding Graduate Award of Sichuan Province. **[Provincial Level]**
- Excellent Student Scholarship of UESTC (Thrice) [12/2020; 12/2019; 12/2018]
- Team Best Award at Innovation and Entrepreneurship Competition held by iSpace Innovations Asia Pacific Pte.Ltd. (IIAP) [07/2019]

Technical Skills

- Python, PyTorch, OpenCV, Numpy, Jupyter, Matplotlib
- Frontend: React, Next.js, HTML5, CSS
- MATLAB, LaTeX

Languages

- Mandarin - Native
- English - Business Competence