Zirui Wang

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Linacre College, St. Cross Rd, Oxford, OX1 3JA, United Kingdom

EDUCATION

09/2018–12/2023 **University of Oxford, UK**
- DPhil in Engineering Science.

09/2015–09/2016 **University of Bristol, UK**
- MSc in Image and Video Communications and Signal Processing.
- Project: High Frame Rate Video Backwards Compatible Adaption (BBC project).

09/2013–06/2015 **Hong Kong Polytechnic University, Hong Kong, China**
- BEng in Electronic Engineering (Dual Degree 1).

09/2011–06/2015 **Sun Yat-sen University, Guangzhou, China**
- BEng in Microelectronics (Dual Degree 2).

WORKING EXPERIENCE

01/2024–now **University of Oxford, UK**
Post-doctoral Researcher in 3D Computer Vision.

08/2022–03/2023 **Meta Reality Lab, Redmond, US**
Research Scientist Intern at Surreal, localisation team.

10/2016–08/2018 **Kudan Inc., Bristol, UK**
Computer Vision Engineer in SLAM system.
- Loop closure, VIO integration, Customising SIMD optimisation for various CPUs.

PUBLICATIONS

2024 **Zirui Wang**, Wenjing Bian, Omkar Parkhi, Yuheng Ren, and Victor Adrian Prisacariu. "CrossScore: Towards Multi-View Image Evaluation and Scoring." Arxiv 2024. Project page.

2024 Shuai Chen, Yash Bhalgat, Xinghui Li, Jiawang Bian, Kejie Li, **Zirui Wang**, and Victor Adrian Prisacariu. "Neural Refinement for Absolute Pose Regression with Feature Synthesis". CVPR 2024. Project page.

2023 Wenjing Bian, **Zirui Wang**, Kejie Li, Jia-Wang Bian, and Victor Adrian Prisacariu. "NoPe-NeRF: Optimising Neural Radiance Field with No Pose Prior." CVPR 2023. Project page.

2022 Shuai Chen, Xinghui Li, **Zirui Wang**, and Victor Adrian Prisacariu. "DFNet: Enhance Absolute Pose Regression with Direct Feature Matching." ECCV 2022. Project page.

2021 Wenjing Bian, **Zirui Wang**, Kejie Li, and Victor Adrian Prisacariu. "Ray-ONet: Efficient 3D Reconstruction from A Single RGB Image." BMVC 2021. Project page.

2021 Shuai Chen, **Zirui Wang**, and Victor Adrian Prisacariu. "Direct-PoseNet: Absolute Pose Regression with Photometric Consistency." 3DV 2021. Paper link.

2021 **Zirui Wang**, Shangzhe Wu, Weidi Xie, Min Chen, and Victor Adrian Prisacariu. "NeRF--: Neural Radiance Fields Without Known Camera Parameters." Arxiv 2021. Project page.

2020 **Zirui Wang**, and Victor Adrian Prisacariu. "Neighbourhood-Insensitive Point Cloud Normal Estimation Network." In BMVC, 2020. Project page.

2020 **Zirui Wang**, Shuda Li, Henry Howard-Jenkins, Victor Adrian Prisacariu, and Min Chen. "FlowNet3D++: Geometric losses for deep scene flow estimation." In WACV, 2020. Paper.

INTERESTS

Skiing, cycling, and hiking.