

# Xinghui (Simon) Li

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## EDUCATION

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### University of Oxford

*DPhil Engineering Science, Active Vision Lab (Oct 2019 ~ Expected Jun 2025)*

- I am supervised by Professor Victor Adrain Prisacariu and Professor Andrea Vedaldi.
- My research interests include image feature matching, camera relocalization, generative models, etc.

*MEng Engineering Science (Oct 2015 ~ Jun 2019)*

- A Bachelor and Master combined program. I graduated with First Class Honour.
- 4th Year Project: “Learn to Verify Neural Network” under the supervision of Professor Pawan Mudigonda. [Final score: 81; Average of all students: 71].

## PUBLICATION

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- Xianzheng Ma\*, Yash Bhalgat\*, Brandon Smart\*, Shuai Chen, **Xinghui Li**, Jian Ding, Jindong Gu, Dave Zhenyu Chen, Songyou Peng, Jia-Wang Bian, Philip H Torr, Marc Pollefeys, Matthias Nießner, Ian D Reid, Angel X. Chang, Iro Laina, Victor Adrian Prisacariu, “When LLMs step into the 3D World: A Survey and Meta-Analysis of 3D Tasks via Multi-modal Large Language Models”. ArXiv 2024. [Paper](#)
- Jingyi Lu, **Xinghui Li**, Kai Han, “RegionEdit: Region-based Image Editing with Diffusion Models”. Submitted to ECCV 2024.
- Jing Wu\*, Jia-Wang Bian\*, **Xinghui Li**, Guangrun Wang, Ian Reid, Philip Torr, Victor Prisacariu, “GaussCtrl: Multi-View Consistent Text-Driven 3D Gaussian Splatting Editing”. Submitted to ECCV 2024. [Paper](#), [Webpage](#)
- **Xinghui Li**, Jingyi Lu, Kai Han, Victor Prisacariu, “SD4Match: Learn to Prompt Stable Diffusion for Semantic Correspondence”. CVPR 2024. [Paper](#), [Webpage](#)
- Shuai Chen, Yash Bhalgat, **Xinghui Li**, Jiawang Bian, Kejie Li, Zirui Wang, Victor Prisacariu, “Refinement for Absolute Pose Regression with Neural Feature Synthesis”. CVPR 2024. [Paper](#)
- **Xinghui Li**, Kai Han, Xingchen Wan, Victor Prisacariu, “SimSC: A Simple Framework for Semantic Correspondence with Temperature Learning”, ArXiv 2023. [Paper](#)
- **Xinghui Li**, Kai Han, Shuda Li, Victor Prisacariu, “DualRC: A Dual-Resolution Learning Framework with Neighbourhood Consensus for Robust Visual Correspondences”, TPAMI 2023. [Paper](#)
- Xue Hu\*, **Xinghui Li**\*, Benjamin Busam, Yiren Zhou, Ales Leonardis, Shanxin Yuan, “Disentangling 3D Attributes from a Single 2D Image: Human Pose, Shape and Garment”, BMVC 2022. [Paper](#)
- Shuai Chen, **Xinghui Li**, Zirui Wang, Victor Prisacariu, “DFNet: Enhance Absolute Pose Regression with Direct Feature Matching”, ECCV 2022. [Paper](#), [Code](#)
- **Xinghui Li**, Kai Han, Shuda Li, Victor Prisacariu, “Dual-Resolution Correspondence Network”, NeurIPS 2020. [Paper](#), [Code](#)

## WORK EXPERIENCE

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### Meta Reality Lab, Meta Platform Inc., US (Expected Jul 2024 ~ Expected Jan 2025)

*Research Scientist Intern*

- I will join Meta as a Research Scientist Intern working on 3D CV & Eye Tracking.

### Noah’s Ark Lab, Huawei Technologies (UK), UK (Jul 2021 ~ Sept 2022)

*Part-time Research Intern*

- I worked on disentangling pose, shape, and garment attributes of a dressed human from its images, and using such attributes to control 3D models.
- Results were published in BMVC 2022.

### Active Vision Lab, University of Oxford, UK (Jul 2018 ~ Oct 2018)

*Research Assistant*

- I worked as a partner with a UK satellite company and developed an algorithm that can track the pose of the satellite in an image.
- The developed algorithm was used as a part of the redundant tracking system on the satellite.

## ACADEMIC ACTIVITIES

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### **Conference Reviewer**

CVPR 2023, 2024; ICCV 2023; ECCV 2024; NeurIPS 2024; AAAI 2023, 2024

### **Journal Reviewer**

TIP 2023, 2024