Xinghui (Simon) Li

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EDUCATION

University of Oxford

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

- I am supervised by Professor Victor Adrian 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

- 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*". ECCV 2024.
- Jing Wu*, Jia-Wang Bian*, **Xinghui Li**, Guangrun Wang, Ian Reid, Philip Torr, Victor Adrian Prisacariu, "*GaussCtrl: Multi-View Consistent Text-Driven 3D Gaussian Splatting Editing*". ECCV 2024. Paper, Webpage
- **Xinghui Li**, Jingyi Lu, Kai Han, Victor Adrian 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 Adrian Prisacariu, "*Refinement for Absolute Pose Regression with Neural Feature Synthesis*". CVPR 2024. Paper, Code
- **Xinghui Li**, Kai Han, Xingchen Wan, Victor Adrian Prisacariu, "*SimSC: A Simple Framework for Semantic Correspondence with Temperature Learning*", ArXiv 2023. Paper
- **Xinghui Li**, Kai Han, Shuda Li, Victor Adrian 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 Adrian Prisacariu, "*DFNet: Enhance Absolute Pose Regression with Direct Feature Matching*", ECCV 2022. Paper, Code
- **Xinghui Li**, Kai Han, Shuda Li, Victor Adrian Prisacariu, "*Dual-Resolution Correspondence Network*", NeurIPS 2020. Paper, Code

WORK EXPERIENCE

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

Conference Reviewer
CVPR 2023, 2024; ICCV 2023; ECCV 2024; NeurIPS 2024; AAAI 2023, 2024
Journal Reviewer
TIP 2023, 2024

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