

# KEJIE LI

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<https://likojack.github.io/kejieli/#/home>

## EDUCATION

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**Doctor of Philosophy** 2017 - 2021

*University of Adelaide, Australia*

- PhD thesis: Object-centric Mapping

**Bachelor of Advanced Computing (Honours)** 2014 - 2016

*the Australian National University, Australia*

- First Class Honours
- Thesis: Improved CNN Regression Model for Depth Estimation from a Single Image

**Bachelor of Computer Science** 2012 - 2014

*Shandong University, China*

- Average Grade 91%

## WORK EXPERIENCE

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**Postdoctoral Researcher** 2021 - Present

*the University of Oxford*

I am working on high-quality 3D reconstruction using RGBD camera under the supervision of Prof. Philip Torr and Prof. Victor Adrian Prisacariu.

**External Research Collaborator** 2020 - 2021

*Facebook Reality Lab Research*

The research project, ODAM: Object Detection, Association, and Mapping using Posed RGB Video, is accepted in ICCV 2021 with an oral presentation (acceptance rate: 3%)

**Research Intern** 2019 - 2020

*Facebook Reality Lab Research*

This internship led to a publication called "FroDO: From Detections to 3D Objects" appeared in CVPR 2020.

**Teaching Assistant** February 2019 - July 2019

*University of Adelaide*

Tutoring for Foundation of Computer Science (FCS). I was responsible for teaching Object Oriented Programming and demonstrating programming in small groups.

**Teaching Assistant** July 2016 - October 2016

*the Australian National University*

Tutoring for COMP6730: Programming for Scientists, a python programming course for students from various disciplines.

## AWARDS

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- University of Adelaide International Wildcard Scholarship, University of Adelaide, 2017-2019

- Adelaide Graduate Research Scholarship, University of Adelaide, 2019-2020
- Australian Centre for Robotic Vision (ACRV) Top-up Scholarship, ACRV, 2018-2020
- International University Partnership Scholarship, ANU, 2014
- First Class National Scholarship, China, 2014
- First Class National Scholarship, China, 2013

## PUBLICATION

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Link to Google Scholar

- **Kejie Li**, Yansong Tang, Victor Adrian Prisacariu, Philip H.S. Torr, “BNV-Fusion: Dense 3D Reconstruction using Bi-level Neural Volume Fusion”, CVPR 2022
- **Kejie Li**, Daniel DeTone, Steven Chen, Minh Vo, Ian Reid, Hamid Rezaatofghi, Chris Sweeney, Julian Straub, Richard Newcombe, “ODAM: Object Detection, Association, and Mapping using Posed RGB Video”, ICCV 2021 (oral)
- **Kejie Li**, Hamid Rezaatofghi, Ian Reid, “MOLTR: Multiple Object Localization, Tracking and Reconstruction From Monocular RGB Videos”, IEEE Robotics and Automation Letters, 2021
- **Kejie Li\***, Martin Rünz\*, Meng Tang, Lingni Ma, Chen Kong, Tanner Schmidt, Ian Reid, Lourdes Agapito, Julian Straub, Steven Lovegrove, Richard Newcombe, “FroDO: From Detections to 3D Objects”, CVPR 2020
- **Kejie Li**, Ravi Garg, Ming Cai, Ian Reid, “Optimizable Object Reconstruction from a Single View”, BMVC 2019 (oral)
- Mehdi Hosseinzadeh, **Kejie Li**, Yasir Latif, Ian Reid, “Real-time Monocular Object-model Aware Sparse SLAM”, ICRA 2019
- **Kejie Li**, Trung Pham, Huangying Zhan, Ian Reid, “Efficient Dense Point Cloud Object Reconstruction using Deformation Vector Fields”, ECCV 2018
- Huangying Zhan, Ravi Garg, Chamara Saroj Weerasekera, **Kejie Li**, Harsh Agarwal, Ian Reid, “Unsupervised Learning of Monocular Depth Estimation and Visual Odometry with Deep Feature Reconstruction”, CVPR 2018

## PROFESSIONAL SERVICES

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- Conference reviewer: CVPR (2019, 2020, 2021, 2022), ECCV (2020), ICCV (2019, 2021), NeuralIPS (2022), ICRA (2019), IROS (2020), WACV (2020)
- Journal reviewer: RA-L, RSS

## REFERENCES

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### Prof. Ian Reid

University of Adelaide  
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### Dr. Julian Straub

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