

JIANYUAN WANG

Email: u6148908@anu.edu.au ◇ Webpage: <https://jytime.github.io>

EDUCATION

Australian National University (ANU), Canberra, Australia

Sep 2014 – Feb 2019

Bachelor of Engineering with a major in Mechatronic System

First Class Honours, Overall GPA: 6.75/7.00

Core Courses: Computer Vision (Rank 1/114)

Robotics (Rank 1/69)

Spending the first two years at the Northwestern Polytechnical University

Thesis: RGB-D Instance Segmentation by Proposal Fusion, supervised by Prof. Hongdong Li

EXPERIENCE

ANU Computer Vision and Robotics Group

Mar 2020 – Present

Research student on visual geometry learning, supervised by Prof. Hongdong Li

SenseTime Group Limited

Mar 2019 – Mar 2020

Research engineer on point cloud object detection, for Mobile Intelligence Group

PUBLICATION

• **Jianyuan Wang**^{*}, Yiran Zhong^{*}, Yuchao Dai, Stan Birchfield, Kaihao Zhang, Nikolai Smolyanskiy, and Hongdong Li. “Deep Two-View Structure-from-Motion Revisited”. In: *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2021.

• **Jianyuan Wang**^{*}, Yiran Zhong^{*}, Yuchao Dai, Kaihao Zhang, Pan Ji, and Hongdong Li. “Displacement Invariant Matching Cost Learning for Accurate Optical Flow Estimation”. In: *Proceedings of Advances in Neural Information Processing Systems (NeurIPS)*, 2020.

• Yiran Zhong, Pan Ji, **Jianyuan Wang**, Yuchao Dai, and Hongdong Li. “Unsupervised Deep Epipolar Flow for Stationary or Dynamic Scenes”. In: *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2019.

AWARD

ANU International PhD Scholarship

Jun 2019

for PhD study in the ANU computer vision group
could not enroll because of the quarantine

Distinguished Scholar Award, ANU Burton & Garran Hall

Sep 2018

for excellent academic performance at the university

First-Class Prize of NWPU Mathematical Model Contest (Top 1%)

May 2015

built a mathematical model for a real-world vaccine problem

ACTIVITY

- Attended the *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, Long Beach California, US, 2019
- Attended the *IEEE International Conference on Computer Vision (ICCV)*, Seoul, Korea, 2019
- Attended the *Conference on Neural Information Processing Systems (NeurIPS)*, Virtual, 2020
- Reviewer for the International Conference on Computer Vision (ICCV), Virtual, 2021

SKILL

Software and Libraries: TensorFlow, PyTorch, OpenCV, LaTeX, Linux

Programming Languages: Python, C/C++, MATLAB, Swift, VHDL

Personal Interests: Photography, Seal Carving