# Huangying **ZHAN**

Ph.D Student

# **Education**

02/2017 - Present	The University of Adelaide Ph.D. Student in Mathematical and Computer Science, supervised by Pr Research interest: Deep Learning, Robotic Vision, SLAM	Adelaide, Australia of. Ian Reid
09/2012 - 07/2016	The Chinese University of Hong Kong B.Eng in Electronic Engineering (First Class Honours), Major GPA: 3.8/4	Hong Kong, China
07/2013 - 08/2013	Peking University Summer School, GPA: 89/100	Beijing, China

<b>Experience</b>		
02/2017 - Present	Australian Centre for Robotic Vision (ACRV) Ph.D Student - Research on deep learning and robotic vision	Australia
07/2018 - 10/2018	HoloLens, Microsoft Research Intern - Worked on a research project with Surface Reconstruc	Redmond, USA
08/2016 - 11/2016	Unmanned System Research Group Visiting research student with Prof. Ben M. Chen - Worked on a landing marker detection project for UAV la in here Started a research on a deep learning method for 2D Resulted in an IROS-2017 paper.	
06/2016 - 07/2016	Dept. of Electronic Engineering Research assistant with Prof. Xiaogang Wang - Researched on a deep learning algorithm for a large-s and retrieval project.	The Chinese University of Hong Kong cale clothing image classification
06/2015 - 08/2015	Faculty of Engineering  Summer research intern with Prof. Chiu Sing, Oliver Choy  Researched on hardware implementations of convolutional neural networks (CNN). A quantization training strategy is proposed to reduce conversion error for implementing CNN in fixed point devices.	
07/2014 - 06/2015	ON Semiconductor Application Engineer Trainee, supervised by Dr. Gang C - Worked on new product developments in terms of appli opment, product evaluation, and documentation.	

### **Publications**

Self-supervised Learning of Depth Estimation and Surface Normal

Huangying Zhan, Chamara Saroj Weerasekera, Ravi Garg, lan Reid

IEEE/RAS International Conference on Robotics and Automation (ICRA-2019)

**Efficient Dense Point Cloud Object Reconstruction Using Deformation Vector Fields** 

Kejie Li, Trung Pham, Huangying Zhan, Ian Reid

European Conference on Computer Vision (ECCV-2018)

Unsupervised Learning of Monocular Depth Estimation and Visual Odometry with Deep Feature Reconstruction

Huangying Zhan, Ravi Garg, Chamara Saroj Weerasekera, Kejie Li, Harsh Agarwal, Ian

IEEE Conference on Computer Vision and Pattern Recognition (CVPR-2018)

Deep Learning for 2D Scan Matching and Loop Closure

Jiaxin Li\*, Huangying Zhan\*, Ben M Chen, Ian Reid, Gim Hee Lee

IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS-2017)

# **Teaching**

02/2018 - Present

**Scientific Computing** 

The University of Adelaide

Fundamentals of MATLAB; Using MATLAB to implement varies algorithms.

#### **Awards**

02/2017 - Present

University of Adelaide International Wildcard Scholarship

The University of Adelaide

2012-2016

#### **Academic Honors and Scholarships at CUHK**

Award to international students to support their study.

The Chinese University of Hong Kong

- College Head's List (United College; 2016)
- Dean's List (Faculty of Engineering; 2014,2016)
- Professor Charles K. Kao Research Exchange Scholarship (2016)
- HKEIA Project Competition Award, Merit (2016)
- Final-Year Project Poster Award, 3rd Prize (2016)
- Undergraduate Summer Research Internship Scholarship (2015)
- HKSAR Talent Development Scholarship (2014)
- Suga International Holdings Limited Scholarship (2014)
- Simatelex Charitable Foundation Scholarship (2014)
- Tsang Shui Tim Scholarship (2014)
- Electronic Engineering Scholarship (2012)

## Skills

Programming Languages Python, MATLAB, C++, LATEX

Deep Learning Framework Caffe, PyTorch

Operation Systems Linux (Ubuntu), Windows

**Languages** Chinese, Cantonese, English, Hokkien