

# Qianggong Zhang

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## Profile

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I am a research fellow at the University of Queensland. My expertises are in Computer Vision, specifically in Localisation and Mapping. Works have been published in top conferences and journal. My Ph.D. thesis on Structure from Motion was rewarded with the Dean's Commendation for Academic Excellence. My recent research also overlaps Artificial Intelligence and Computer Graphics.

Before entering into the Ph.D. program, I accumulated 5 years experience as a senior software engineer. I also worked for an autonomous driving company as a researcher for a short period of time after graduation.

## Professional and Academic Appointments

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- **University of Queensland, Australia** 09/2019 - present  
**Research Fellow**
  - I am hired through an industry project doing early diagnosis of skin cancer, and my work is primarily on 3D human body scan registration. The methodology is combining 3D geometry with deep learning techniques. This role also includes pure research. Most recently a preliminary work on neural networks was submitted to a top conference.
- **Queensland University of Technology, Australia** 08/2018 - 09/2019  
**Postdoctoral Research Fellow**
  - I worked on the same project as I am doing at the University of Queensland (so see above).
- **Motovis Australia Pty. Ltd., Australia** 03/2018 - 07/2018  
**Researcher**
  - The employer is a research laboratory of an autonomous driving startup in Adelaide. My duties were to collaborate with academic partners in Australia Universities and liaise with software engineers in the headquarter located in China.
- **Agricultural Bank of China, China** 08/2007 - 07/2012  
**Senior Software Engineer**
  - The employer is one of the four biggest state-owned banks in China, in which I was responsible for developing the back-end of the accounting system.

## Education

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- **University of Adelaide, Australia - Adelaide** 02/2015 - 03/2018  
Ph.D. in Computer Science  
Supervisor: Assoc. Prof. Tat-Jun Chin and Prof. David Suter

- **Beijing University of Technology**, China - Beijing 09/2004 - 07/2007  
Master in Computer Science  
Supervisor: Prof. Zhangqin Huang and Prof. Yibin Hou
- **Qingdao University of Science and Technology**, China - Qingdao 09/2000 - 07/2004  
Bachelor in Computer Science  
Supervisor: Prof. Shulin Sui

## Honors, Awards and Scholarships

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- Scholarship from Australian Government Research Training Program (RTP) 2015
- Thesis rewarded Dean's Commendation for Academic Excellence 2018

## Teaching

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- Tutor for Scientific Computing (2016), Artificial Intelligence (2016), and Object Oriented Programming (2017) at the University of Adelaide

## Academic Service

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- Reviewer for ICCV2019, CVPR2019, and TKDE

## Publications

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- **Zhang, Q.**, Chin, T. J., Le, H. (top 1%)  
A Fast Resection-Intersection Method for the Known Rotation Problem  
IEEE Conference on Computer Vision and Pattern Recognition (CVPR) 2018
- **Zhang, Q.**, Chin, T. J., Suter, D. (top 1%)  
Quasiconvex Plane Sweep for Triangulation With Outliers  
IEEE International Conference on Computer Vision (ICCV) 2017
- **Zhang, Q.**, Chin, T. J. (top 1%)  
Coresets for Triangulation  
IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI) 2017
- **Zhang, Q.**, Chin, T. J.  
An Efficient Meta-Algorithm for Triangulation  
Asian Conference on Computer Vision 2016 Workshops (ACCV) 2016