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# Cai Yi

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## Education

### Wuhan University

Wuhan, China

- ✓ Ph.D. candidate in Photogrammetry and Remote Sensing

Sep 2018 - present

### Beijing Normal University

Beijing, China

- ✓ M.S. with Cartography and Geographical Information Engineering
- ✓ Overall Grades:87.78/100
- ✓ Awarded The first prize scholarship award in Beijing Normal University in 2015, 2016, 2017

Sep 2014 - Jun 2017

### Hunan Normal University

Changsha, China

- ✓ B.S. with Geographical Information Science
- ✓ Overall Grades:82.98/100
- ✓ Awarded Outstanding Graduates award in Hunan Normal University in 2014

Sep 2010 - Jun 2014

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## Skills

Computer: Proficient in programming with Matlab, Python, C++, Java

Specialized Software: Proficient in using ArcGIS, ENVI, SPSS

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## Research Experience

### Wuhan University

Wuhan, China

- ✓ PhD Researcher in Autonomous Driving Group, Wuhan University
- ✓ Works on real-time 3D objects detection on point clouds

Sep 2018 - present

### Beijing Normal University

Beijing, China

- ✓ MSc Researcher in Satellite Images Analysis Group, Beijing Normal University
- ✓ Worked on classification of land cover types by using semi-supervised and ensemble learning on satellite images

Sep 2014 - Jun 2017

### Hunan Normal University

Changsha, China

- ✓ Undergraduate Researcher
- ✓ Worked as a leader of a project named National University Student Innovation Program
- ✓ Created an APP for online car-hailing service and introduced the partition of traffic zone into this application to make taxi dispatch more efficient

Sep 2011 - Jun 2013

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## Additional Experience

### Wuhan University

Wuhan, China

Research Assistant

Jul 2017 - Aug 2018

- ✓ Participate in creating a new autonomous driving car named “Tu-you”

Worked as a leader in a team of 10 and won a prize for excellent AEB(Autonomous Emergency Braking) in 2018-iVISTA Challenge

### Beijing Normal University

Sep - Nov 2015

Teaching Assistant

Beijing, China

- ✓ Selected as teaching assistant for Principle of Remote Sensing
- ✓ Designed course materials including study problems, exams and lecture
- ✓ Awarded Outstanding Teaching Assistant of Beijing Normal University Award

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## Publications and Conference Presentations

[1] Li B J, GuoY, Zhou J, **Cai Y**, Xiao J S and Zeng W C. Lane Detection and Road Surface Reconstruction Based on Multiple Vanishing Point & Symposia, IEEE Intelligent Vehicles Symposium, IV 2018, Changshu, Suzhou, China, June 26-30, 2018, 2018, pp. 209–214.

[2] **Cai Y**, Zhu X F, Chen A J, Sun Z L. Semi-Supervised and Ensemble Learning: A Review. Journal of Computer Research and Development, 2017. 44(6A), pp. 7–13.(in Chinese)

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