

# Bijun LI

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## EDUCATION

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[Tsinghua University](#), Beijing, China Sep. 2015 – Present

M.E., Department of Automation

- Major in Control Engineering
- Minored in Big Data Capability Improvement Project
- Advisor: Prof. Kai [ZHANG](#), Prof. Bokui [CHEN](#)
- Core Courses: Digital Image Processing, Data Mining, Pattern Recognition, Big Data Analytics, Stochastic Process, Multi-Sensor Fusion Theory and Application.
- Overall GPA: 3.3/4.0

[Northwestern Polytechnical University](#), Xi'an, China Sep. 2011 – Jul. 2015

B.E., School of Power and Energy

- Major in Automation
- Advisor: Prof. Sanmai [SU](#)
- Overall GPA: 3.25/4.0 (82.5/100), Junior GPA: 3.75/4.0 (87.5/100)

## RESEARCH INTERESTS

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Computer Vision: Simultaneous localization and mapping, 3D Reconstruction,  
Stereo vision, Object recognition, Augmented Reality.

Machine Learning: Reinforcement learning, Deep learning

## RESEARCH EXPERIENCE

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**Research Assistant** Sep. 2015 – Present

Department of Automation, Tsinghua University, China

Advisor: Prof. Kai [ZHANG](#), Prof. Bokui [CHEN](#)

**Research Assistant** Aug. 2014 – Jun. 2015

School of Power and Energy, Northwestern Polytechnical University, China

Advisor: Prof. Sanmai [SU](#)

## TEACHING EXPERIENCE

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**Teaching Assistant**

- Fundamentals of applied information theory Tsinghua-Berkeley Shenzhen 2014

## PROJECTS

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1. Obstacle avoidance of logistics terminal delivery robots. (In start-up phase) Sep. 2017- Present

2. Motion control system for omnidirectional wheeled mobile robot.	Nov. 2016 – Apr. 2017
3. Visual positioning system for automated guided vehicle.	July. 2016 – Nov. 2016
4. Face gender recognition based on Convolutional Neural Networks.	Apr. 2016 – May. 2016
5. The shortest path problem based on genetic algorithm and its MATLAB implementation.	Mar. 2016 – Apr. 2016
6. Application of Support Vector Machine to forecast the direction of stock index.	May. 2016 – Jun. 2016
7. Design of Robust Controller for Aero-Engine.	Aug. 2014 – Jun. 2015
8. The design of the public bicycle service system in Xi'an Jing Kai District.	May. 2014

## PUBLICATIONS

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1. **Bijun Li**, Mingyao Qi, Kai Zhang, Bokui Chen<sup>1\*</sup>, Yi Zhang, Jun Zhou, Lixin Miao. "Landmark-Based Visual Positioning System for Automatic Guided Vehicle." IEEE Cota International Conference of Transportation Professionals (**CICTP**), 2018.
2. **Bijun LI**, Mingyao QI, Yuhan DONG, Kai ZHANG, Bokui CHEN\*. "Visual Positioning System and Motion Control Method for Automated Guided Vehicles." The Institution of Engineering and Technology (**IET**). [Submitted]. 2017.

## WORK EXPERIENCE

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### Volunteer Work

*"Sunshine Class", Northwestern Polytechnical University, Shanxi, China, Sept. 2012 ~ Dec. 2012*

### Algorithm Engineer

*Mobile Robot, Department of Algorithm, ROBU Intelligent Technology Co.Ltd. Shenzhen, China, Jul. 2016 ~ Mar. 2017.*

## HONORS AND AWARDS

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1. "Qingfeng" Pre-scholarship	Tsinghua University	2017
2. Big data promotion project certificate	Tsinghua University	2017
3. The Third Prize Scholarship	Tsinghua University	2016
4. <b>The First Prize Scholarship</b>	Northwestern Polytechnical University (NPU)	2014
5. The First prize in Mathematical Modeling Contest	NPU	2014
6. The First prize in C language programming skills competition	NPU	2014
7. The Second prize in Digital Electronic Experiment Skill Contest	NPU	2014
8. <b>National Encouragement Scholarship</b>	NPU	2013
9. <b>Excellent Student Cadre</b>	NPU	2013
10. The Second Prize in Mathematical Modeling Contest	NPU	2013

## SKILLS

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### Programming

- Matlab, C/C++, Python, LATEX, OpenCV, Linux.