

Bingjie Xu

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EDUCATION

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| PRESENT | PhD student in Northwestern University , United States
COMPUTER SCIENCE |
| 2018.06 | Bachelor of Science in Beihang University , China
INSTRUMENTATION SCIENCE AND OPTO-ELECTRONICS ENGINEERING |
| 2017.04 | Exchange student in Technical University of Munich , Germany
COMPUTER AND ELECTRICAL ENGINEERING |

RESEARCH EXPERIENCE

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|-------------------|---|
| 2017.04 - 2018.06 | 3D IMAGING AND MEASUREMENT LAB <ul style="list-style-type: none">- Built a single-pixel imaging system with a digital projector and a single-pixel detector- Applied single-pixel imaging by means of Fourier spectrum acquisition- Developed a projector-defocusing rectification method for Fourier single-pixel imaging |
| 2016.10 - 2017.02 | DYNAMIC HUMAN ROBOT INTERACTION LAB(TUM) <ul style="list-style-type: none">- Built a virtual scene environment and character models- Implemented Visual Servoing with Kinect RGB-D camera |
| 2017.04 - 2017.07 | HANDWRITTEN NOTE RECOGNITION <ul style="list-style-type: none">- Recognized characters in handwritten notes- Built an application to convert notes into electronic edition |
| 2016.10 - 2017.04 | SELFIE ROBOT <ul style="list-style-type: none">- Built an application in Android system to detect and segment human heads- Made a Selfie Robot using a 4 DOT manipulator to control cell phones with Bluetooth |
| 2015.09 - 2016.04 | 3D STORAGE SYSTEM <ul style="list-style-type: none">- Design a 3D storage system containing n^3 cubes with automatic deposit and removal |

WORK EXPERIENCE

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| 2015.06 - 2015.09 | Software Engineer Intern, IFLYTEK <ul style="list-style-type: none">- Front-end developing with an interactive website |
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PUBLICATIONS

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| 2018 | B. Xu, H. Jiang, H. Zhao, X. Li and S. Zhu , "Projector-defocusing rectification for Fourier single-pixel imaging," <i>Optics Express</i> 26, 5005-5017 (2018) |
| 2017 | H. Jiang, S. Zhu, H. Zhao, B. Xu, and X. Li, "Adaptive regional single-pixel imaging based on the Fourier slice theorem," <i>Optics Express</i> 25, 15118-15130 (2017) |

COMPUTER SKILLS

C/C++, Python, MATLAB, C#, Javascript, HTML, OpenGL, assembly

AWARDS

- 2018 **First prize**, Fengru Cup Science and Technology Competition
- Fengru Cup is the most important and authoritative competition in Beihang University.
- 2017 **Honorable Mentions**, Contest of Mathematical Modelling
- 2015&2016 **School Outstanding Student Cadre**
- 2015 **Guanghua Scholarship**(1/180) for outstanding students
- 2014 **First prize**, National Olympiad in Informatics