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# **Education**

PhD Student Wuhan University

STRUCTURE-FROM-MOTION, JUNCTION DETECTION AND DEEP LEARNING

Wuhan, China

Wuhan, China

Sep. 2016 - present

Master Student Wuhan University

STRUCTURE-FROM-MOTION, MULTIVIEW GEOMETRY

Wuhan, China

Sep. 2014 - Jun. 2016

Research Intern Wuhan University

POLAR-SAR IMAGE DENOISING Wuhan, China

Nov. 2013 - Aug. 2014

Bachelor's Degree in Science Wuhan University

INFORMATION AND COMPUTATIONAL SCIENCE

Sep. 2010 - Jun. 2014

### **Honors & Awards**

| 2018 | Academic Innovation Award, Second Prize                           | Wuhan University        |
|------|---|-------------------------|
| 2018 | Scholarship for Graduate Students Second Prize                    | Wuhan University        |
| 2016 | Scholarship for Graduate Students Second Prize                    | Wuhan University        |
| 2015 | Scholarship for Graduate Students Second Prize                    | Wuhan University        |
| 2014 | Scholarship for Excellent Freshman                                | Wuhan University        |
| 2013 | RenMin Scholarship Second Prize                                   | Wuhan University        |
| 2012 | Meritorious Winner, The American Mathematical Contest in Modeling | American Consortium     |
|      |   | for Math. and Its Appl. |
| 2009 | First Prize National Olympiad in Informatics in Provinces         | China Computer          |
|      |   | Federation (CCF)        |
| 2008 | Second Prize National Olympiad in Informatics in Provinces        | China Computer          |
|      |   | Federation (CCF)        |

## **Academic Publications**

- [1] Jian Ding, **Nan Xue**, Yang Long, Gui-Song Xia, and Qikai Lu. Learning roi transformer for detecting oriented objects in aerial images. *arXiv:1812.00155*, 2018.
- [2] Fudong Wang, **Nan Xue**, Yipeng Zhang, Xiang Bai, and Gui-Song Xia. Adaptively transforming graph matching. In *the European Conference on Computer Vision (ECCV)*, 2018.
- [3] **Nan Xue**, Gui-Song Xia, Xiang Bai, Liangpei Zhang, and Weiming Shen. Anisotropic-scale junction detection and matching for indoor images. *IEEE Transactions on Image Processing*, 27(1):79–91, 2018.
- [4] Tian-Zhu Xiang, **Nan Xue**, Gui-Song Xia, and Liangpei Zhang. Image stitching based on anisotropic-scale junction. *Journal of Signal Processing*, 33(4):465–471, 2017.
- [5] Bowen Xu, **Nan Xue**, Gui-Song Xia, and Liangpei Zhang. Finding edges of buildings via a junction process in high-resolution remotely sensed images. In *the IEEE International Geoscience and Remote Sensing Symposium (IGARSS)*, 2015.

- [6] Gui-Song Xia, **Nan Xue**, Zifeng Wang, and Liangpei Zhang. Anisotropic diffusion on complex tensor fields for polsar image filtering. *Geometrics and Information Science of Wuhan University (in Chinese)*, 2015.
- [7] **Nan Xue**, Gui-Song Xia, and Liangpei Zhang. Anisotropic diffusion on complex tensor fields for polsar image filtering. In the IEEE International Geoscience and Remote Sensing Symposium (IGARSS), 2014.
- [8] Gang Liu, Gui-Song Xia, Wen Yang, and **Nan Xue**. Sar image segmentation via non-local active contours. In *the IEEE International Geoscience and Remote Sensing Symposium (IGARSS)*, 2014.

### **Skills**

#### **COMPUTER SCIENCE**

- Good at C, C++, CUDA, Matlab and Python.
- Familiar with Mathematic and Maple.
- Experienced in developing algorithms on Unix/Linux with CMake and Make.
- Experienced in writing academic paper by using LaTeX

#### **DEEP LEARNING**

· Good at TensorFlow, CaffeLibrary and PyTorch

#### **MATHEMATICS**

Calculus and Analysis, Linear Algebra and Abstract Algebra, Probability and Statistics, Differential Equations, Differential Geometry, Multiview Geometry, Variational Calculus, Numerical Analysis and Optimization.

### **INFORMATICS**

• Image Processing, Computer Vision, Scientific Computing, Data Structure, Machine Learning

#### LANGUAGE

- Mandarin Chinese (mother tongue)
- English (Fluent)