

# Xiangyue Liu

Beihang University, Beijing, China

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## EDUCATION

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### Beihang University

Master of Software School (Prof. Dr. You Song)

### Northeast Normal University

Bachelor of Software School

Beijing, China

Present

Changchun, China

Jun 2018

## AWARDS AND ACHIEVEMENTS

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- Second class scholarship (Changchun, China, 2015)
- Outstanding Project of National Undergraduate Innovation and Entrepreneurship Training Program (Changchun, China, 2016)
- Third class scholarship (Changchun, China, 2017)
- Excellent student of the fifth visual SLAM of Deep Blue College (Beijing, China, 2019)

## KEY SKILLS

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- Research Interest: 3D Reconstruction, SLAM, AR, Instance Segmentation, Deep Learning
- Programming: C++, Python
- Deep Learning: Pytorch, Tensorflow
- Writing: Latex, Word

## EXPERIENCE

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### Volunteer of the 2nd National SLAM Technology Forum

The 2nd National SLAM Technology Forum

Beijing, China

Jul 2019 - Jul 2019

### Megvii Technology SLAM&AR Lab

SLAM Research Intern (Leader, Yijia He)

Beijing, China

Aug 2019 - Apr 2020

- Develop SLAM algorithm
- Do the research about point and line features in slam

### IJCAI-PRICAI 2020 3D AI Challenge: Instance Segmentation (2/599)

Beijing, China

Mar 2020 - Aug 2020

- Data analysis and preprocessing
- Research models and tricks
- Implement some of models and tricks(eg. MaskRCNN, PointRend, focal loss, Resnet, mask correct)

## Publication

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### RPR: Representation, Traingulstion, and Camera Estimation

ICRA 2021(submitted)

Yijia He\*, Xiangyue Liu\*, Ji Zhao

### 2nd Place Solution to Instance Segmentation of IJCAI 3D AI Challenge 2020

IJCAI-PRICAI 2020  
workshop

Kai Jiang\*, Xiangyue Liu\*, Zheng Ju\*, Xiang Luo

**SMRGAN: A Sky Map Repair Method Based on GAN for Ultra-long  
Wavelength Astronomical Observation Array**

Xiangyue Liu, Juntao Pu, Jingwei Yang, You Song, Li Deng

**An Optimization Algorithm of Baseline Density Distribution for An  
Ultra-long Wave Astronomical Observation Array**

Jingwei Yang, Juntao Pu, Xinyi Fei, Xiangyue Liu, You Song, Li Deng

*Preprint*

*IAC 2020*