

# Xiangyue Liu

Beihang University, Beijing, China

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## EDUCATION

### 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

- 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

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

## EXPERIENCE

### The 2nd National SLAM Technology Forum

Volunteer of the forum

Beijing, China

Jul 2019 - Jul 2019

### Megvii SLAM&AR Lab

SLAM Research Intern

Beijing, China

Aug 2019 - Apr 2020

- Do the research on using RPR (structures combining points and lines) in SLAM
- Develop RPR SLAM algorithm
- Write a SLAM system based on point, line, and RPR features

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

Conference Competition

Beijing, China

Mar 2020 - Aug 2020

- Data analysis, pre-processing, and post-processing
- Do the research on models and tricks
- Implement some models and tricks (eg. MaskRCNN, PointRend, focal loss, TTA)

## Publication

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

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

ICRA 2021(submitted)

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

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

IJCAI-PRICAI 2020  
workshop

**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

*Working*

**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

*IAC 2020*