Xiangyue Liu

EDUCATION

Beihang University (University of 985 Project)

Master of Software Engineering

Northeast Normal University (University of 211 Project)

Bachelor of Software Engineering

Beijing, China

Score: 84.94, Jun 2021

Changchun, China

GPA: 3.45, Jun 2018

KEY SKILLS

- o Research Interest: 3D Scene Reconstruction, MVS, SLAM, 3D Scene Understanding, Causal Inference
- o Programming: C++, Python, Matlab
- o Deep Learning: PyTorch, TensorFlow
- o Tools: Latex, g2o, Ceres, Eigen, OpenCV

AWARDS AND ACHIEVEMENTS

- Second class scholarship of Northeast Normal University, Oct 2015
- o National College Students Innovation and Entrepreneurship Training Program, Dec 2016
- Third class scholarship of Northeast Normal University, Nov 2017
- $\circ~$ Third class scholarship of Northeast Normal University, Jun 2018
- Second class scholarship of Beihang University, Oct 2018
- First class scholarship of Beihang University, Oct 2019
- First class scholarship of Beihang University, Jun 2020
- o 2nd Place in IJCAI-PRICAI 2020 3D AI Challenge: Instance Segmentation, Oct 2020
- o Excellent graduate in Beijing, Jun 2021

EXPERIENCE

National Space Science Center

Beijing, China

• Research Group Member

Sept 2018 - Sept 2019

- Reconstruct the sky map from under sampled inversion astronomical matrix by using deep learning methods (conditional GANs).

MEGVII Research

Beijing, China Aug 2019 - Apr 2020

- SLAM Intern
 - Develop new visual Simultaneous Localization and Mapping (SLAM) algorithm.
 - Build a ray-point-ray feature-based stereo visual odometry (VO) by C++.

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Jun 2021 - Aug 2021

- Do research on Multi-view Stereo (MVS) with deep learning.

Tsinghua University

o 3D Vision Intern

Beijing, China

• Visiting Student at IIIS

Jul 2021 - Present

- Do the research about causal inference in dynamic model.

PUBLICATION

TransMVSNet: Global Context-aware Multi-view Stereo Network with

Under review

Transformers

Yikang Ding*, Wentao Yuan*, Qingtian Zhu, Haotian Zhang,

Xiangyue Liu, Yuanjiang Wang, Xiao Liu

ICRA 2021
IJCAI 2020
Workshop
IAC 2020

ACTIVITES

 Oral presentation for the IJCAI-PRICAI 2020 3D AI workshop 	Jan 2021
 Outstanding student of visual SLAM class at Shenlan School 	Aug 2019
 Volunteer of the 2nd National SLAM Technology Forum 	Jul 2019
 League secretary in Software College at Beihang University 	Sep 2018 - Jun 2021
 Recreation and sports secretary in Software College at NENU 	Sep 2015 - Jun 2018