JIAN GAO

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ABOUT

I am presently serving as a research assistant under the supervision of ***Prof. Yao Yao*** at the School of Intelligence Science and Technology, NanJing University. My current scholarly pursuits center around the domains of 3D reconstruction and differentiable rendering.

I received the *M.S.* degree in *Pattern Recognition and Intelligent Systems* and the *B.S.* degree in *Science and Technology of Remote Sensing* from the School of Remote Sensing Information Engineering, Wuhan University. During my master's program, I concentrated on the application of deep learning in multi-view stereo, specifically from optical satellite and drone images under the guidance of ***Prof. Shunping Ji***.

EDUCATION

Sept. 2020 – June 2023 **M.S. Pattern Recognition and Intelligent Systems** Wuhan University
School of Remote Sensing and Information Engineering
Thesis: 3D Reconstruction from Satellite Images Based on Deep Learning Multi-View Stereo

Sept. 2016 – June 2020 **B.S. Science and Technology of Remote Sensing** Wuhan University
School of Remote Sensing and Information Engineering
GPA: 3.86 / 4.0 **Rank**: 6 / 201

PUBLICATIONS

* Equally contributed.

[1] **Jian Gao***, Chun Gu*, Youtian Lin, Hao Zhu, Xun Cao, Li Zhang, and Yao Yao. 2023. Relightable 3D Gaussian: Real-time Point Cloud Relighting with BRDF Decomposition and Ray Tracing. arXiv:2311.16043 (2023).

[2] Jin Liu, **Jian Gao**, Shunping Ji, Chang Zeng, Shaoyi Zhang, and JianYa Gong. 2023. Deep learning based multi-view stereo matching and 3D scene reconstruction from oblique aerial images. ISPRS Journal of Photogrammetry and Remote Sensing 204, (2023), 42–60.

[3] **Jian Gao**, Jin Liu, and Shunping Ji. 2023. A general deep learning based framework for 3D reconstruction from multi-view stereo satellite images. ISPRS Journal of Photogrammetry and Remote Sensing 195, (2023), 446–461.

[4] **Jian Gao***, Jin Liu*, and Shunping Ji. 2021. Rational polynomial camera model warping for deep learning based satellite multi-view stereo matching. In Proceedings of the IEEE/CVF International Conference on Computer Vision, 6148–6157.

EXPERIENCES

Research Assistant Sept. 2023 - now
School of Intelligence Science and Technology, Nanjin University
under the supervision of Prof. Yao Yao.

Teaching Assistant Feb. 2020 – July. 2020 & Feb. 2021 – July. 2021
School of Remote Sensing and Information Engineering, Wuhan University
Course: Computer Vision and Pattern Recognition

AWARDS AND HONORS

Outstanding Graduates	May 23th, 2023
First Class Entrance Scholarship for New Students	Sept. 10th, 2020
Outstanding Graduates	May 4th, 2020
Wang Zhizhuo innovative talent scholarship [*Only **4** undergrads university-wide annually awarded*]	Dec. 20th, 2019