Miaowei Wang

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EDUCATION

Beijing University of Posts and Telecommunications(BUPT)   09/2016-07/2020
• **Bachelor of Engineering** in *Telecommunication Engineering Talent Program*
• **GPA**: 89.3/100   **Department Rank**: Top 5%
University of Michigan, Ann Arbor   09/2020-12/2021
• **Master of Science** *in Computer Vision, EECS*   • **Advisor:** Prof. Jason Corso
The University of Edinburgh   10/2023-Now
• **Ph.D.** *in IPAB, School of Informatics*   • **Advisor:** Prof. Amir Vaxman

PUBLICATIONS & PATENTS

• **Miaowei Wang**, Yilin Liu, et al. Asymmetrical Bell State Analysis for Photon-atoms Hybrid System [J] *SCIENCE CHINA Physics, Mechanics & Astronomy*. Volume 62, Issue 12: 120311(2019).

• **Miaowei Wang**, Self-Annotated Method And System For Removing Smeared Points. U.S. Patent Application No. US20250139961A1. Filed October 28, 2024. Published May 1, 2025.

• **Miaowei Wang**, Self-Annotated 3D Geometric Learning for Smeared Points Removal. *Proceedings of the IEEE/CVF Winter Conference on Applications of Computer Vision (WACV)*. 2024.

• **Miaowei Wang**, DecoupledGaussian: Object-Scene Decoupling for Physics-Based Interaction. *The IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR) 2025.*

• **Miaowei Wang**, CanFields: Consolidating Diffeomorphic Flows for Non-Rigid 4D Interpolation from Arbitrary-Length Sequences. *IEEE/CVF International Conference on Computer Vision (ICCV)* 2025

HONORS & AWARDS

• The 2nd Prize in Undergraduate Innovation & Entrepreneurship Competition(National level)   07/2019
• The National Encouragement Scholarship   11/2018
• The 3rd Prize in National Partial Division Undergraduate Physics Competition   12/2017
• Zhou Jiongpan Scholarship for Outstanding Performance   12/2017
• The 1st Prize in The Chinese Mathematics Competition(National level)   11/2017

PROFESSIONAL EXPERIENCE

SenseTime   03/2022-05/2023
Full-time Researcher in Smart City Group, Shenzhen, China
 • Human behavior identification, detection, and tracking in intelligent security systems.
Michigan State University   05/2021-03/2022
Research intern at 3D vision lab in the department of ECE
 • 3D geometric structure estimation of plants can be achieved through skeleton extraction
 • Development of a system to detect and eliminate smeared points in the ToF depth sensor.
DreamWid Technology Co., Ltd   09/2020-12/2020
Algorithm intern at Science Fiction Come True Laboratory Beijing, China
• Took charge of the research of face reconstruction based on 3DMM methods.
• Undertook the algorithm design of 3D object reconstruction based on one consumer-level depth sensor.
Beijing Kuaishou Technology Co., Ltd   04/2020-07/2020
Artificial Intelligence Researcher (Undergraduate Intern) at Y-tech Department Beijing, China
 • Took responsible for the deep learning theory research and my main work direction is network pruning and lottery theory. Designed a gradient signal-to-noise ratio index based on network parameters to improve the effect of network generalization and find "lottery tickets".

SKILLS & OTHER

• **Computer Skills**: C++, Python, MATLAB, PyTorch, OpenCV, Scikit-learn, etc.
• **Other Skills/Hobbies**: Taekwondo, Hip-Hop, Mountaineering, Guitar, Ocarina, Reading, etc.