

Curriculum Vitae

EDUCATION

- 2022 - 2024 The University of Hong Kong (HKU) Hong Kong SAR**
M.Phil. in Computer Science | Supervisor : *Prof. Heming Cui*
Concentration: *3D Vision, Robotics, Systems and Graphics*
- 2018 - 2022 Lanzhou Jiaotong University (LZJTU) Lanzhou, China**
B.E. in Computer Science and Technology | GPA : 3.96/4.3 Rank : 3/121
- 06 - 08/2022 Oxford Machine Learning Summer School Oxford, UK**
- 07/2022 USTC Online Summer School (Computer Graphics) HeFei, China**

RESEARCH INTERESTS

I'm particularly interested in **Efficient Deep Learning** and its applications in **Robotics** and **Systems**.

For example, the following two aspects:

Robot Perception : Depth Estimation; NeRF/3D Vision; SLAM/Point Cloud.

Robot Learning Systems : Multi-Robot Systems; Distributed Robotic Learning; Edge Computing

PUBLICATIONS

- EITCE 2022 Design of GNSS-RTK Landslide Monitoring System Based on Improved Randa Criterion**
Junming Wang, Yi Shi*
The 6th International Conference on Electronic Information Technology and Computer Engineering.
- RICAI 2022 Application of BDS/GPS Fusion Relative Positioning in Slope Deformation Monitoring**
Junming Wang, Jiuyuan Huo*, Lin Mu, Hamzah Murad Mohammed Al-Neshmi, Tao Ju
The 2nd International Conference on Robotics, Intelligent Control and Artificial Intelligence.
- 2021 Design of Beidou high-precision positioning geological disaster monitoring system**
Junming Wang, Jiuyuan Huo*, Cong Mu, Lin Mu, Hamzah Murad Mohammed Al-Neshmi, Meng Liu, Tao Ju
In the Microcontrollers & Embedded Systems. (*Chinese Journal*)
- 2021 Geological disaster monitoring experimental platform based on Beidou**
Cong Mu, Jiuyuan Huo*, *Junming Wang*, Lin Mu, Meng Liu, Jing Zhang
In the Scientific & Technical Information of Gansu. (*Chinese Journal*)
- 2022 SAR image change detection based on fusion difference map and FCM algorithm**
Lin Mu, Jiuyuan Huo*, Hamzah Murad Mohammed Al-Neshmi, *Junming Wang*
In the Computer Science. (*Chinese Journal*)

PATENTS

- 2020 A geological disaster monitoring system based on Beidou satellites**
Jiuyuan Huo, *Junming Wang*, Lin Mu, Meng Liu, Hamzah Murad Mohammed Al-Neshmi, Cong Mu, Tao Ju
Gansu Province : CN212084334U.
- 2020 Image change detection methods, devices, electronic equipment and storage media**
Jiuyuan Huo, Lin Mu, Meng Liu, Haina Zhang, Deli Zhang, Hamzah Murad Mohammed Al-Neshmi, *Junming Wang*.
Gansu Province : CN111476813A.

EXPERIENCES

- 06/2022 **Research Intern** (6 months) **Chinese Academy of Sciences (IA), China**
- Advisor: Prof. *Chi Zhang* & Prof. *Zhaoxiang Zhang*
➤ Unsupervised New Class Discovery Based on NeRF
- 01/2019 **Research Assistant** (3 years) **Lanzhou Jiaotong University, China**
- Advisor: Prof. *Jiuyuan Huo*
➤ Edge Computing and Machine Learning (*RICAI '2020*)
➤ Embedded System & Internet of Things (*Journal of Microcontrollers & Embedded Systems*)
➤ SAR remote sensing image processing (*Journal of Computer Science*)
➤ Teaching Platform Research (*Journal of Scientific & Technical Information of Gansu*)
- 04/2021 **Python Intern**@Data Analysis Group (3 months) **Jiabao Trading, China**
- 04/2020 **Java Intern**@Technology Group (2 months) **Hengsheng Electronic Technology, China**

PROJECTS

- 2021 - 2022 **Robot for Avoiding Obstacles Designed Using Monocular Depth Estimation**
Junming Wang Supervisor: Prof. *Song Wang*
Final Year Project
- 2019 - 2020 **High-precision Geological Deformation Monitoring System Based in Beidou**
Junming Wang, Hamzah Murad Mohammed Al-Neshmi, Dan Yang, Zhilu Zhao, Jintao Wei
Training in Innovation and Entrepreneurship for College Students (National Level - 10000 CNY)
- 2019 - 2020 **Intelligent SLAM-based Landslide Disaster Early Warning Monitoring Vehicle**
Junbo Guo, *Junming Wang*, Lin Mu, Liu Meng, Zicheng Wang
Training in Innovation and Entrepreneurship for College Students (National Level - 4000 CNY)

COMPETITION CERTIFICATE

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|---------|---|-----------------------|
| 02/2020 | Amercian College Students Mathematical Contest in Modeling | Meritorious Winner |
| 10/2019 | National College Students Mathematical Contest in Modeling | National Second Prize |
| 07/2020 | National College Student E-commerce Challenge | National Second Prize |
| 08/2020 | National University Biological Network Design Competition | National Second Prize |
| 11/2020 | Undergraduate Embedded Artificial Intelligence Design Competition | National Second Prize |
| 12/2020 | Renewable Energy Excellent Technology Works Competition | National Third Prize |

TEACHING

- 09/2022 **COMP7503** Multimedia technologies [Section 1A, 2022]
Course Instructor: Dr. Bill Luo | Course Tutor: *Junming Wang* ; Yichao Fu

AWARD & SKILL

- 12/2021 The Stars of Self-improvement of Chinese College Students Scholarship (Top 1% of all students)
- 10/2020 Tsung-Dao Lee Scholarship (Top 1% of all students)
- 06/2020 The Second Prize Scholarship (Top 5% of all students)
- 2019&2020 Individual Scholarship (Top 1% of all students)
- 11/2020 Innovative-Student Award & Excellent Youth Communist
- Skills:** Pytorch | Tensorflow | ROS | Java | C++ | RaspberryPi | Jetson Nano |