

# Min Yang

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## EDUCATION

**Xi'an Jiaotong University (XJTU)**, Xi'an, Shanxi, China

*(Expected) June 2023*

*Master of Science in Computer Science, GPA: 3.5 / 4.0*

**Xidian University (XDU)**, Xi'an, Shanxi, China

*June 2020*

*Bachelor of Engineering in Computer Science, GPA: 3.4 / 4.0*

## PUBLICATIONS (SELECTED)

- **M. Yang**, Y. Li, S. Wang, S. Yang, and H. Liu. "RITNet: A Rotation Invariant Transformer based Network for Point Cloud Registration." in *2022 IEEE International Conference on Tools with Artificial Intelligence* (accepted for presenter session).
- S. Wang, Y. Li, and **M. Yang**. "TADP: Task-Aware Deformable Prediction for Single-Stage 3D Object Detection." in *2023 IEEE International Conference on Robotics and Automation* (under peer review).

## RESEARCH EXPERIENCE

**RITNet for Point Cloud Registration**

*March 2022 – August 2022*

- Designed a network to capture global structural knowledge within local parts for overall comprehension.
- Proposed a rotation-invariant representation to replace common 3D Cartesian coordinates.
- Utilized insensitivity to arrangement and quantity of data in Transformer to capture global structural knowledge.

**Institute of Artificial Intelligence and Robotics**

*September 2020 – Present*

- Investigated on Transformer-based point cloud registration algorithms.
- Designed and implemented the Multimodal-based point cloud semantic segmentation of indoor scenes.
- Participated the 3D Object Detection in Road Scenes.

**Ascend Ecological Development Department, Huawei**

*March 2022 – June 2022*

- Transplanted the deep learning model to Huawei's Ascend AI processor for deployment.
- Completed the compatibility and performance verification of both systems.
- Achieved the required accuracy and performance on the Ascend AI processor about several DL models.

**Power-on Self-test Module for Humanoid Robot NAO**

*January 2019 – June 2019*

- Designed a test program to perform qualitative, quantitative, and functional detection of Nao.
- Worked on the underlying API of NAO and programmed to control the trajectory of each joint of the robot.
- Measured distance using camera, infrared sensor and ultrasonic sensor

## EXTRACURRICULAR ACTIVITIES

**AI and Deep Learning Vlogger**

*September 2020 – Present*

- Created and shared video clips for AI learning and deep learning related topics for online learners.
- Operated a Vlog account at Bilibili that reached over 8800 followers. Link: <https://space.bilibili.com/430141951>.

**Academic Assistant**

*September 2020 – June 2021*

- Served as a teaching assistant for senior-level class Data Structure in Fall 2021 semester.
- Arranged the volunteer service work of the 2021 China National Games and the daily management of the college.

**Vice President of the Student Union**

*September 2016 – June 2020*

- Coordinated venue installations and personnel managements for the National Cybersecurity Competition.
- Organized the college sports competition and won the outstanding class cadre for three consecutive years.

## HONORS AND AWARDS

- First Prize of the University of Minnesota 3-Minute-Thesis Competition, 2022.
- XDU Outstanding Student Leader, 2017, 2018, 2019.
- National Outstanding Volunteer, 2018.
- Third Prize of the National College Students Mathematics Competition, 2017.