Wenjie Zhao

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EDUCATION

- **University of Texas at Dallas** — Dallas, U.S.
  Ph.D. student in Computer Science - Erik Jonsson School of Engineering and Computer Science — Aug 2023 -Current
- **Xi'an Jiaotong University** — Xi'an, China
  Software Engineering - Faculty of Electronic and Information Engineering; GPA: 3.63 — Sept 2022 -Jul 2023
- **Sichuan University** — Chengdu, China
  Honors B.E in Automation - WuYuzhang Honors College; GPA: 3.66; rank: 8/117 — July 2018 - June 2022

EXPERIENCE

- **Transformer-based Multimodal Semantic Segmentation**
  Research Assistant - Prof. Xing Wei — Oct 2021 - May 2022
  - **Transformer-Based**: Base on vision transformer to handle semantic segmentation.
  - **RGB and Depth**: Using multimoda input to improve the result.
  - **Framework**: Coding by Pytorch and mmsegmentation framework.
- **Edge computing of Yolact for HUAWEI** — Remote
  Developer — Jul 2022 - Dec 2022
  - **MindX SDK infer**: Develop inference of Yolact using MindX SDK by python.
  - **Arrangement**: Arrangement the model on the Atlas 200 Developer Kit
- **Inference of Transpose for HUAWEI** — Remote
  Developer — May 2022 - Aug 2022
  - **Inference**: Adapt a new inference tool to Transpose.
  - **Performance Testing**: Test the performances of Transpose on different chips including Tesla T4, Ascend310, Ascend310Pro.
  - **Performance improve**: Improve the Performance of Transpose using some tools provided by HUAWEI.
- **Model development of DELF for HUAWEI** — Remote
  Developer — Dec 2021 - Jun 2022
  - **Training**: Develop the training script of DELF to train on HUAWEI ModelArts platform.
  - **MindX SDK infer**: Develop inference of DELF using MindX SDK by python.
  - **MXbase infer**: Develop inference of DELF using MXbase by C++.

COMPETITIONS

- **National Undergraduate Engineering Training Integration Ability Competition(Second Prize)**: Responsible for UAV design, assembly, ground station debugging, and cooperating with manipulator design in flight test. Responsible for flying hand in the final competition, which became the fastest flying hand in grasping speed, leading other teams by a large margin. (2020)

- **Asia and Pacific Mathematical Contest in Modcling Certificate of Achievement(Second Prize)**: Responsible for using CAD to analyze image, model and participate in model building. (2019)

- **China Aeromodelling Design Challenge(Third Prize)**: The water rocket and glider of the model water rocket assisted spacecraft are independently designed and manufactured. The water rocket is launched and separated from the glider at the highest altitude. The glider glides for a long time and lands at a fixed point. (2019)

- **Asia and Pacific Mathematical Contest in Modcling Certificate of Achievement(Second Prize)**: Responsible for using CAD to analyze image, model and participate in model building. (2019)

PUBLICATIONS

- **Patent:A kind of automobile anti-collision control system and method patent type**: Work with my advisor in Sichuan University to build a system to aviod the collision (June. 2021)

HONORS AND AWARDS

- First Prize New Student Scholarship — *Oct 2022 in XJTU*
- Comprehensive Quality A-level Certificate — *Jul 2021 in SCU*
- Outstanding Student Leaders — *Oct 2019, 2020, 2021 in SCU*
- Single Second Prize Scholarship — *Sept 2020 in SCU*
- Comprehensive Second-Class Scholarship — *Sept 2019 in SCU*

VOLUNTEER EXPERIENCE

- **Dream Coach Sponsored by Shanghai Adream Charitable Foundation** — Xinjiang, China
  The entire project trained 73,000 front-line teachers, affecting more than 1.4 million students. — Jan 2019
- **Student hometown trip** — Sichuan, China
  Obtained the outstanding player certificate. — Jan 2019

SKILLS SUMMARY

- **tools**: Python, C/C++, PyTorch, Latex