

# RUNZHE ZHU

+86 180 6705 5753 [◇ zhurunzhe@jrizju.com](mailto:zhurunzhe@jrizju.com) [◇ Runzhe's homepage](#)

## Education

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**Shanghai University of Engineering Science**  
M.S. Artificial Intelligence & Shanghai, China

**2020 – 2023**  
GPA: 3.31/4.0

**Zhejiang Shuren University**  
B.S. Communication Engineering & Hangzhou, China

**2016 – 2020**

## Research Experience

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**Fusion Computing and Location Services Group** *Graduate Researcher*  
↔ Prof. Fei Wu

**Oct 2020 – June 2023**  
*School*

- Built a geo-localization benchmark dataset SUES-200 and shared it with community.
- Set a series of evaluation metrics for the SUES-200 to measure the robustness of different models.
- Established a representations fusion method based on multimodal and bilinear pooling achieve the SOTA results on existing datasets.

**Jiang's Labs** *Graduate Researcher*  
↔ Dr. Wei Jiang

**Oct 2019 – June 2020**  
*School*

- Analysis and prediction of postgraduate entrance examination score line based on LSTM.

## Work Experience

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**Jiayang Research Institute Zhejiang University** *CV Algorithm Engineer*

**Mar 2023 - Present**

- Develop machine learning algorithms for scoring 2D/3D medical image registration results.
- Develop speed estimate algorithm based on event-vision camera.

**Qianxun Spatial Intelligence Inc** *Test Development Intern*

**Jul 2022 - Sept 2022**

- Participated in automated testing work through pipeline tools, such as Jenkins, and Pytest. Application of high-precision positioning equipment.

**Shanghai University of Engineering Science** *Teaching Assistant*

**Dec 2021 - Jun 2022**

- Guide undergraduates to use deep learning methods to complete their graduation projects in Geo-Localization.

## Publications

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- [1] **Zhu, Runzhe**, L. Yin, M. Yang, F. Wu, Y. Yang, and W. Hu, "Sues-200: A multi-height multi-scene cross-view image benchmark across drone and satellite," *IEEE Transactions on Circuits and Systems for Video Technology*, pp. 1–1, 2023.
- [2] **Zhu, Runzhe**, M. Yang, L. Yin, F. Wu, and Y. Yang, "Uav's status is worth considering: A fusion representations matching method for geo-localization," *Sensors*, vol. 23, no. 2, p. 720, 2023.
- [3] **Zhu, Runzhe**, M. Yang, K. Zhang, F. Wu, L. Yin, and Y. Zhang, "Modern backbone for efficient geo-localization," *Proceedings of the 31th ACM International Conference on Multimedia Workshop*, 2023.
- [4] M. Cai, **Zhu, Runzhe**, F. Wu, K. Zhang, and J. Li, "Cross-view matching model based on attention mechanism and multi-granularity feature fusion," *Journal of Computer Applications*.
- [5] M. Yang, H. Zhu, **Zhu, Runzhe**, F. Wu, L. Yin, and Y. Yang, "Witransformer: A novel robust gesture recognition sensing model with wifi," *Sensors*, vol. 23, no. 5, p. 2612, 2023.
- [6] Y. Yang, F. Wu, H. Zhu, **Zhu, Runzhe**, and M. Yang, "Adaptive step detection method combining cnn-bilstm-sa motion pattern recognition," *GNSS World of China*, vol. 48, no. 71-80, 2023.

## Awards

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National Second prize, "Huawei Cup" China Post-graduate Mathematic Contest in Modeling **2021**

National Third prize, "Optics Valley & Huawei Cup" China Post-graduate Mathematic Contest in Modeling **2022**

Shanghai Second Prize, The 16th China Post-graduate Electric Design Contest **2021**

Shanghai University of Engineering Science Second prize Scholarship **2020, 2021, 2022**

## Technical Skills

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**Programming Languages**

Python, C++, C#

**Machine Learning**

Pytorch, Tensorflow, Pandas, Numpy, Sklearn

**Office**

MS Office, LaTeX

**Languages**

Chinese(Native), English (IELTS 6.5 Overall)