

# Runzhe Zhu

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## Education

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<b>Shanghai University of Engineering Science</b> <i>M.S. Artificial Intelligence</i>	Oct 2020 – Present Shanghai, China
<b>Zhejiang Shuren University</b> <i>B.S. Communication Engineering</i>	Oct 2016 – June 2020 Hangzhou, Zhejiang, China

## Research Experience

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<b>Graduate Researcher</b> <i>Shanghai University Of Engineering Science</i>	Oct 2020 – Present Shanghai, China
<ul style="list-style-type: none"><li>• Built a geo-localization benchmark dataset SUES-200 and shared it with community.</li><li>• Set a series of evaluation metrics for the SUES-200 to measure the robustness of different models.</li><li>• Established a representations fusion method based on multimodal and bilinear pooling achieve the SOTA results on existing datasets.</li></ul>	
<b>Graduate Researcher</b> <i>Zhejiang Shuren University</i>	Oct 2019 – June 2020 Hangzhou, Zhejiang, China
<ul style="list-style-type: none"><li>• Analysis and Prediction of Postgraduate Entrance Examination Score Line Based on Artificial Neural Network</li></ul>	

## Work Experience

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<b>Software Development Intern</b> <i>Jiaxing Research Institute Zhejiang University.</i>	Mar 2022 - Present Jiaxing, China
<ul style="list-style-type: none"><li>• Developing 2D/3D medical image registration algorithm.</li></ul>	
<b>Test Development Intern</b> <i>Qianxun Spatial Intelligence Inc.</i>	Jul 2022 - Sept 2022 Shanghai, China
<ul style="list-style-type: none"><li>• Participated in automated testing work through pipeline tools, such as Jenkins, and Pytest. Application of high-precision positioning equipment.</li></ul>	
<b>Teaching Assistant</b> <i>Shanghai University of Engineering Science</i>	Dec 2021 - Jun 2022 Shanghai, China
<ul style="list-style-type: none"><li>• Tutor undergraduate students to complete the graduation project.</li></ul>	

## Research Presentations

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*SUES-200: A Multi-height Multi-scene Cross-view Image Matching Benchmark Across UAV and Satellite.* IEEE Transactions on Circuits and Systems for Video Technology. (1st author. Accepted) [arXiv Link](#)

*UAV's Status is Worth Considering: A Fusion Representations Matching Method for Geo-localization.* Sensors (1st author. Published. [Paper Link](#))

*WiTransformer: A Novel Robust WiFi Gesture Recognition Sensing Model.* IEEE Sensor Journal. (3rd author. Published.)

### *Awards & Honors*

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**The 16th China Post-graduate Electric Design Contest.**

*Shanghai Second Prize*

*2021*

**"Huawei Cup" China Post-graduate Mathematic Contest in Modeling**

*National Second Prize*

*2021*

### *Specialized Skills*

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**Programming Languages:** Python (Proficient), C++ (Intermediate), Shell (Beginner)

**Deep Learning:** Pytorch (Proficient), Tensorflow (Intermediate)

**Data Analysis:** Pandas (Proficient), Numpy (Intermediate), Scikit-Learn (Beginner)

**Office:** MS Office (Proficient), LaTeX (Proficient)