

# Zhenyuan Chen

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## About Me

I completed my undergraduate studies at Zhejiang University, School of Earth Sciences, and am currently a third-year master's student at the same institution, under the supervision of Prof. Feng Zhang. I am fascinated by artificial intelligence and deep learning, focusing on advancing vision-language foundation models and their applications in Earth science. My research emphasizes the development and application of multimodal large language models and diffusion models for remote sensing, with a particular interest in disaster analysis and monitoring.

## Education

<b>Zhejiang University, School of Earth Science</b> <i>M.S. in Earth Science</i>	Hangzhou, China 2023 – Present
<b>Zhejiang University, School of Earth Science</b> <i>B.S. in Earth Science</i>	Hangzhou, China 2019 – 2023

## Research Interests

- Application of **multimodal large language models** in remote sensing
- Application of **diffusion models** in remote sensing

## Projects

<b>Generative Models for Data Augmentation</b> — <a href="#">Project Page</a> <a href="#">GitHub</a> <i>Teaching Assistant</i>	Summer 2025 Zhejiang University
<b>Introduction to Diffusion Models</b> — <a href="#">GitHub</a> <i>Teaching Assistant</i>	Summer 2024 Zhejiang University

## Publications

<b>Zero-shot Image Editing using Video Generation Model</b> <i>Co-Author</i> Working on a novel approach for zero-shot image editing leveraging video generation models.	In Progress Zhejiang University
<b><a href="#">RSCC: A Large-Scale Remote Sensing Change Caption Dataset for Disaster Events</a></b> <i>First Author</i> Introduced RSCC, the first large-scale dataset for disaster-aware bi-temporal remote sensing, featuring 62,351 pre/post-disaster image pairs with rich human-like change captions. Benchmarked and enhanced vision-language models for temporal image understanding in remote sensing, establishing state-of-the-art performance in detailed change captioning.	NeurIPS 2025 Zhejiang University

## Competitions

<b>NeurIPS - Ariel Data Challenge 2025</b> — <a href="#">GitHub</a> <i>Adviser</i>	Silver Medal (29th, top 3%), 2025 Machine Unlearning Team
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## Social Media

<b>Bilibili</b> — <a href="#">Channel</a> <i>Content Creator</i> Sharing advanced AI knowledge through video tutorials, paper reviews, and research insights. Covering topics including diffusion models, generative AI, computer vision, and deep learning. <b>18.2K+ views</b> across 129+ educational videos.	2023 – Present AI Education & Research
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