

# Guanyu Mao

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## Education

**Wuhan University**, School of Earth and Space Science and Technology  
B.S. in Geophysics

Wuhan, China  
Sept 2022 - Jun 2026

GPA: **3.88**/4.00 | Rank: **2**/17

TOEFL iBT: **103**/120 (Date: Nov 2025)

## Research Interests

- **Seismology:** Earthquake rupture processes, dynamic rupture modeling, seismic source inversion, and induced earthquake.
- **Geodynamics:** Stress and strain evolution in the lithosphere, crust-mantle interaction, subduction and mountain building processes.
- **Tectonics:** Crustal deformation, plate boundary processes, and volcano-tectonic interactions.

## Research Experience

### Seismogenic structure and rupture characteristics of the 2023 Ms 4.9 Earthquake in Xingwen (Sichuan, China)

Independent Project  
Supervisor: Jiang Guoyan (Wuhan University) Wuhan, China  
Jun 2023 - Jun 2025

- Utilized GAMMA software to process InSAR data (Sentinel-1) and extract coseismic surface deformation associated with the 2023 Xinwen Ms4.9 earthquake sequence.
- Conducted inversion of fault geometry and slip distribution based on the derived surface deformation models.
- Researched on correlations between aftershock activity and seismogenic fault based on spatiotemporal patterns of aftershocks.

## Publications

Guanyu Mao, Yingwen Zhao\*, Guoyan Jiang\* et al. Seismogenic Structure and Rupture Characteristics of the 2023 Ms 4.9 Earthquake in Xingwen (Sichuan, China), Earthquake Science (**Under Review**)

## Awards

Yu Gang Song Xiao Scholarship	2025
The First Prize Scholarship of Wuhan University	2025
The First Prize Scholarship of Wuhan University	2024
The First Prize of Zheng Geru Scholarship	2024
The Second Prize Scholarship of Wuhan University	2023
National Encouragement Scholarship	2023

## Technical Skills

**Programming:** Python, MATLAB, Shell, C, C++, C#

**Tools and Software:** GMT, SAC, Git, LATEX, Markdown, HTML

**Languages:** Chinese (native), English (fluent)

## Leadership Experience

- |                                       |   |
|---------------------------------------|---|
| • <b>Youth Volunteers Association</b> | School of Geodesy and Geomatics, Wuhan University |
| <i>Head of Project Division</i>       | Jun 2023 – Jun 2024                               |
| • <b>College Choir</b>                | School of Geodesy and Geomatics, Wuhan University |
| <i>Vice Captain</i>                   | Oct 2023 – Oct 2024                               |
| • <b>Geophysics Class of 2022</b>     | Wuhan University                                  |
| <i>Class Monitor</i>                  | Sept 2022 – Present                               |
| • <b>Geophysics Class of 2025</b>     | Wuhan University                                  |
| <i>Freshman Assistant</i>             | Jul 2025 – Present                                |

## Exchange Study Experience