Ruoyan Wang

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Education

▶ **B.S. in Geophysics**, *Sept.2018 - Jun.2022 (Expected)*
University of Science and Technology of China (USTC), Hefei, China
Overall GPA: 3.56/4.30 (Average Score: 85.96/100), **Total Credits:** 136.5

First year GPA: 3.08/4.30, **Sophomore year GPA:** 3.83/4.30
Core courses: Theoretical Mechanics (90/100), Electrodynamics (96/100), Electronic Circuits (95/100), Physical Geology (95/100), Computational Methods (89/100), Optics and Atomic Physics (90/100), The Gravity and the Tide of the Earth (90/100)

Research Interests

▶ **Earth's Interior**
Deep mantle, D" discontinuity, Large Low Shear Velocity Province

▶ **Seismology**
Seismic tomography, Wave propagation

▶ **Planet Science**
Structure and evolution of planetary bodies

Teaching Assistance Experience

▶ **Electrodynamics**

Research Experience

◇ **Research Intern, School of Earth and Space Sciences, USTC** *Sept.2020-Jan.2021*

Advisor: Professor Zhu Mao
Project: Phase transitions of Magnesium fluoride at room temperature and high pressure

- use the diamond anvil cell and ruby fluorescence technique to measure the pressure in a static high-pressure cavity
- analyze the Raman spectrum and the shift of characteristic peaks to determine the transition points
- MgF_2 undergoes phase transitions at 9.0GPa, 13.9GPa and 36.7GPa which is basically consistent with theoretical calculation
- won the first prize in the university physics research experiment paper competition

◇ **Research Team Leader, School of Earth and Space Sciences, USTC** *Jun.2020-present*
Advisor: Professor Daoyuan Sun
Project: Study of the D" layer structure beneath the northwest Pacific

- sample the lower mantle of the Northwest Pacific Ocean and study its velocity structure using the seismic data from the stations in Alaska
- analyze the waveform anomalies of related seismic phases
- infer the dynamical connection between the subducted plate and the shear wave low velocity anomalies in this area

Awards & Scholarships

- Outstanding Student Scholarship, Silver Award, USTC *2019 - 2020 Sophomore year*
- Incoming Student Scholarship, Bronze Award, USTC *Oct 2018*

Skills

- **Mathematics Programs:** (La)TeX, Origin, MATLAB
- **Programming:** Linux(Shell), gmt, SAC, C, Fortran, IDL
- **Standard Tests:** TOEFL: 97/120 (R:29 L:25 S:20 W:23), CET6: 621/750
- **Other Interests:** Piano, Table Tennis, Skateboard