YIFAN CHEN

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EDUCATION

Zhejiang University (ZJU)   *Sept 2022 - Present*
B.S. in Geology
GPA: 3.85/4.00
Related courses: Calculus, Physics,Linear Algebra,Probability and Mathematical Statistics,Physical Chemistry,Principles Of Mineralogy And Petrology,Geochemistry.

RESEARCH INTERESTS

Cosmochemistry, Meteoritics, Mineralogy, Petrology

I am deeply fascinated by the role of meteorites in elucidating fluid activity on the surfaces and internal magmatic processes of extraterrestrial bodies, such as the Moon and Mars. Furthermore, I am eager to leverage the isotopic systems of Calcium-Aluminum-rich Inclusions (CAIs) in chondrites to constrain the evolution of the early solar nebula.

In addition, I am drafting experimental plans for several Martian meteorites. I am also curious about the complex H2O-rock interaction on the Martian surface and their evidence preserved within these meteorites.

RESEARCH EXPERIENCE

Student Research Training Program   *Sept 2024 - Present*
Supervisors: Prof. Jia Liu   *ZJU*

· The origin of lunar regolith water is unclear: Solar Wind, Meteorites, Cosmic Dust, Molecular Clouds?
· To constrain the origin of H20 in lunar regolith
· Focus on Hydrogen isotope in alteration minerals
· Done the basic mineral identification using microscope and SEM
· Determining the isotope composition using SIMS

Undergraduate Research Assistant   *Oct 2024 - Present*

· Determining the content of H_2O in Nominally anhydrous minerals(NAMs) using FTIR
· Determining the element composition in minerals of IODP & OIB Samples using EPMA

AWARDS

National Second Prize of National College Students' geological skills competition	*Fall 2024*
Scholarship of Zhejiang Province government	*Fall 2024*
Outstanding Student of ZJU	*Fall 2024*
First Prize Scholarship of ZJU	*Fall 2024*
Provincial Third Prize of College Students' Advanced Mathematics Competition	*Summer 2023*
Third Prize Scholarship f ZJU	*Fall 2023*

SKILLS

Programming Languages	Python, C/C++, MATLAB
Instruments Use	FTIR,EPMA,Raman,SEM,TEM,SIMS