

# Xiangying Ye

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**Research interests** magmatic-hydrothermal evolution, global climate change, geochemical thermodynamics visualization, numerical simulation, geological big data

**Education** **University of Science and Technology of China (USTC)** Hefei  
MA in Geology 2021-Now  
Mentors: Professor Xiao, Yilin. GPA: 3.84/4.3

**Central South University (CSU)** Changsha  
BA in Geological Engineering 2017-2021  
Mentors: Professor Li, Bin. GPA: 83.3/100

**Honors and scholarships**

- Clarendon Scholar (Oxford) 2024
- Provincial Excellent Graduate (Anhui Province) 2024
- Outstanding graduate (USTC) 2024
- First Prize in Science Popularization Competition (USTC) 2023
- Excellent Student Cadre (USTC) 2023
- The One-class Excellent Student Scholarship (USTC) 2021
- Second Prize in Geoscientific Data Utilization Competition (CGS) 2019

**Publications** **Lithium isotopic systematics and numerical simulation for highly-fractionated granite-pegmatite system: Implications for the pegmatite-type rare-metal mineralization.**  
Ye, X.Y., Li B.\*, Chen, X.D., Lu, A.H., Lei, J., Zhao, L., Tan, D.B., Xiao, Y.L.\*  
*Ore Geology Reviews*, 2023. IF=3.8 (Q1)

**Lithium Isotope Analytical Methods and Implications for Rare-Metal Mineralization in Granite-Pegmatite Systems: An Overview.**  
Ye, X.Y., Li, B.\*, Tan, D.B., Liu, K.C. Zhu, Z.Y., Xiao, Y.L.  
*Journal of Earth science*, 2024. IF=3.3 (Q2)

**Molar-Tooth Carbonate: An excellent proxy for reconstructing lithium isotopic composition of Precambrian seawater.**  
Yang, T.Y., Xiao, Y.L.\*, Wang, Y.Y.\*, Kuang, H.W., Shan, E.H., Jiang, L.L., Ye, X.Y., Sun, H., Gu, H.O.  
*Chemical Geology*, 2024. IF=3.9 (Q1))

## **The Book of Rocks: Unearthing the Secrets of Our Planet.**

Ye, X.Y., Liu, K.C., Xiao, Y.L.\*

*Zhejiang Science and Technology Publishing House, 2024. (In Press)*

## **Li isotope fluctuations after Frasnian-Famennian boundary event: Recovery from mass extinction.**

Ye, X.Y., Xiao, Y.L.\*, Wang, Y.Y., Liang, K., Yang, T.Y., Tan, D.B.

*(In preparation)*

## **Geochemical Thermodynamics Visualization Platform (GEOTVP) V1.0.**

Yu M.\*, Ye, X.Y., Zhao, H.T., Song, X.Q., Shang, L.X.

*Copyright of computer software: 2020SR0481441, 2020.*

### Research experience

#### **MC-ICP-MS laboratory (USTC)**

Lead by Professor Huang, Fang

2022/12 – Present

- Learning about the operation and daily responsibilities of an MC-ICP-MS laboratory.

#### **Clean room and LA-ICP-MS laboratory (USTC)**

Mentors: Professor Xiao, Yilin

2021/09 – Present

- Learning Major, trace elements, and Li isotope analysis. →
- Master's thesis: "Li Isotope fractionation during the Late Devonian Frasnian-Famennian (F-F) event."

#### **Earth Data Program (Zhejiang University)**

Mentors: Professor Zhang, Zhou

2020/03 – 2020/10

- Learned Python web crawler and built a global pyroxene metasomatic geochemical dataset.

#### **Metallogenic evolution project team (CSU)**

Mentors: Prof. Li, Bin, Prof. Jeffrey Dick, and Yu, miao

2018/03 – 2021/6

- Built GeoTVP: a geochemical thermodynamic reaction platform.
- Undergraduate Research Training Program Funded by CSU (¥15000).

### Teaching experience

#### **Teaching assistant, School of Earth and Space Sciences**

Spring 2022

GEOL6103P: Trace element geochemistry

- Assisting with teaching, grading, and providing academic support to students.

### Other highlights

- I visited Heidelberg University and KIT with the funding of Central South University. 2019/12-2020/1

- I Gave a talk on *Geological Science Data Development Conference* at Development & Research Center of CGS. 2019/10

- I am members of *Hefei Astronomical Society* and *Dr. stone cartel* and have written and published some popular science articles on Earth science.

## Skills

### Programming

- Proficient in: Python, R, MySQL, Linux Server, LaTeX.
- Familiar with: PHP, MATLAB, C++, Qt GUI, JavaScript, TensorFlow.

### Languages

Mandarin (native), English (fluent communication, academic writing), Basic Japanese.

## Other interests

Blues Harp, Chinese Chess, Science Popularization, Cooking