LIANG Xueyin

E-mail: liangxueyin@email.cugb.edu.cn ✲ *Place of birth:* Chengdu, Sichuan
Personal Homepage: XShaeeee.github.io ✲ *Date of birth:* June 2001

EDUCATION

China University of Geosciences, Beijing (CUGB) **September 2023 - July 2026**
M.Sc. in Geology (Orientation: Precambrian Geology) *Beijing, China*

- **Average Score: 90.42/100**
- Graduate School Applicant: Selected for the University's Outstanding Undergraduate Comprehensive Training Program (rank 1)

Peking University (PKU) **September 2021 - July 2024**
B.A. in Economics (Minor), National School of Deveplopment (NSD) *Beijing, China*

- GPA: 3.43/4.00, Awarded Outstanding Student Assistant (2024)
- Core Courese: Urban Economics (93), International Financial Organizations and Global Financial Governance (91), Advanced Research Seminar (Honor) (85)

China University of Geosciences, Beijing (CUGB) **September 2019 - July 2023**
B.S. in Geochemistry (Major) *Beijing, China*

- **Average Score: 90.96/100 | Comprehensive Rank: 1/23**
- Core Courese: Chemistry (96), Probability and Statistics (96.4) Crystallography and Mineralogy (94.5), Petrochemistry (95), Geochemistry (90.5), Geological Survey Field Trip in Zhoukoudian (95)

PUBLICATIONS

First-author:

- **Liang, X.Y.**, Wang, W., Yao, J.C., Gao, L., Yang, W.B., Hu, J.C., Wang, J.J., Lu, D.G., He, X. Evolution of the late Neoarchean modern-style initial subduction system in the North China Craton (in preparation).

Co-author:

- Wang, W., Lu, Y.J., Gao, L., Sun, G.Z., Zhou, X.Z., Yao, J.C., Yang, W.B., **Liang, X.Y.**, 2024. Late Archean K-rich intermediate magmatism driven by deep supracrustal recycling. Chemical Geology, p.122215.
- He, X., Gao, L., Wang, W., Yao, J.C., Yang, W.B., Sun, G.Z., Guo, R.R., Zhou, X.Z., Hu, J.C., **Liang, X.Y.**, 2024. Early to middle Neoarchean tonalite-trondhjemite-granodiorite (TTG) formation and outward continental growth in the North China Craton. Precambrian Research, 405, p.107378.

ACADAMIC EXPERIENCE

Late Neoarchean modern-Style initial subduction system in the North China Craton *September 2023 - Present*
Master Project, CUGB

- Proposed the initial subduction process of the late Neoarchean in the Jiaobei terrane.
- Illustrated the initial subduction system with products showing nascent island arc assemblages and mantle properties at the continental margin during the late Neoarchean of the North China Craton.

Control of basaltic sources on the diversity of Archean TTG magmatism *September 2023- now*
Main participant, CUGB

- Simulated the P-T conditions for the formation of TTGs through partial melting of the thickened lower crust by PerpleX.
- Analyzed compositional variations and correlations of global Archean metabasalts and TTGs using the weighted bootstrap resampling method.

Petrogenesis and geodynamic regimes of Mesoarchean metavolcanic rocks in the Jiaobei terrane *October 2020 - May 2022*
Undergradute thesis, Provincial-level Innovation Training Program, CUGB

- Based on comprehensive investigations of Mesoarchean metabasaltic rocks from the Jiaobei terrane, proposed a tectonic setting related to plate subduction during the Mesoarchean in the Jiaobei terrane.
- Awarded **Outstanding Undergraduate Thesis (top 5%)**

NSD-Baruch MFE (Master of Finacial Engineering) Summer Camp *August 2022*
Peking University and Baruch College, the City University of New York

- Content: **Machine Learning** for Finance, Options Trading and Arbitrage, Relative entropy-regularized robust optimal order execution.
- Achieved Early Admission to Baruch College's MFE Program (Available After 2022). Note: GRE, written examination, and academic reference letters are not required for admission.

The Fourth *Non-traditional Stable Isotope Geochemistry* Summer School *August 2022*
Nanjing University

- Studied the applications of non-traditional stable isotopes in geology, environmental science, and archaeology, gaining insights into key research achievements and emerging trends.
- Completion with **distinction** academic performance.

SELECTED HONORS & AWARDS

- ***Honors:*** **National Scholarship (Undergraduate, top 0.2%)**, Outstanding Undergraduate Thesis (top 5%), Silvercorp Mining Scholarship (twice, top 2%), First/Second-Class Professional Scholarship (top 5%/top 10%, 7 times), Merit Students (twice).
- ***Awards:*** First Prize in the *Social Practice and Science Competition on Energy Conservation and Emission Reduction* for the College Student Competition, Second Prize in *Mathematical Modeling Competition.*

SKILLS & LANGUAGES

Programming/Tools	R, STATA, C++, Python, Matlab, SPSS, PerpleX, LaTeX, Markdown
Experiment	Optical microscopy, X-ray fluorescence (XRF) analysis, Laser ablation inductively coupled mass spectrometry (LA-ICP-MS)
Languages	Mandarin (native), English (working proficiency)

EXTRACURRICULAR ACTIVITIES

Key Laboratory of Earthquake Warning in Sichuan Province *January 2022*
Institute of Care-life *Chengdu, China*

- Researched the impact of the *AI+Disaster Warning* emergency management system and the development of mega-disaster scenarios in urban applications on the advancement of the digital economy.

Academy of CUGB *April 2022 - Present*

- Tutor for *Probability and Statistics*

Art Troupe Of CUGB *November 2020 - October 2021*

- Deputy Leader of the Chinese Orchestra, Principal Guzheng Player and Percussionist.