LIANG Xueyin

E-mail: liangxueyin@email.cugb.edu.cn ✻ *Place of birth:* Chengdu, China
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EDUCATION

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

- **Average Score: 90.42/100 | Rank: 3/137**
- Graduate School Applicant: Selected for the University's Outstanding Undergraduate Comprehensive Training Program (rank 1)

Peking University **September 2021 - July 2024**
Minor in Economics, National School of Development *Beijing, China*

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

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

- **Average Score: 90.96/100 | Rank: 6/217**
- Core Courses: 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., He, X. Identification of modern-style plate subduction during the Archean: a perspective from metavolcanic rocks (in preparation, **oral presentation in CGU-2025**).

Co-author:

- Gao, L., Wang, W., Liu, S.W., ...**Liang, X.Y.**, Wang, T.X., 2025. Convergence of two ancient continental nuclei induced by late Neoarchean multiple subduction systems. GSA Bulletin.
- 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, 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, 107378.

ACADAMIC EXPERIENCE

Identification of modern-style plate subduction during the Archean: a perspective from metavolcanic rocks *September 2023 - Present*
Master Project, CUGB

- Discovered late Neoarchean boninitic rocks from the Jiaobei terrane, North China Craton.
- Proposed initiation of a late Neoarchean plate subduction system in the Jiaobei terrane.
- Illustrated diachronous development of Archean modern-style plate subduction globally.

First-order control of basaltic sources on the diversity of Archean TTG magmatism *September 2023- Present*
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.
- Wang, W., Cawood,P.A., Liu, S.W., Lu, D.G., **Liang, X.Y**., ...Sun. G.Z., 2025. First-order control of basaltic sources on the diversity of Archean TTG magmatism. Chemical Geology (Under Review).

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, we proposed a tectonic setting related to plate subduction during the Mesoarchean.
- Awarded **Outstanding Undergraduate Thesis (top 5%)**, CUGB.

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) and 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 (9 times, top 5%/top 10%), Merit Students (3 times).
- ***Awards:*** First Prize in the *Beijing Social Practice and Science Competition on Energy Conservation and Emission Reduction* for the College Student Competition, Second Prize in *Mathematical Modeling Competition, CUGB.*

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 (CET-6: 526)

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 - June 2023*

- Peer tutor for *Probability and Statistics*