

# Yang Luo

Department of Earth Science

University of California, Santa Barbara

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## Education:

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- Ph.D. in Geochemistry, University of California, Santa Barbara, 2024-present
- M.S. in Mineralogy, Petrology, Mineral Deposit Geology, University of Chinese Academy of Sciences, 2021-2024
- B.S. in Geology, Chengdu University of Technology, 2016-2020

## Work experience:

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Summer 2020: Research Assistant

Chengdu University of Technology

Duties included: Collecting data and writing report

Supervisor: Professor Xiong

## Skills:

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Office software, Adobe Illustrator

Lab skills:

Optical microscope

Scanning Electron Microscope (SEM)

Electron Microprobe Analysis (EPMA)

**Publications:**

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2024

Ning S, Su B-X, Tang D-M, Luo Y, Yuan Q-H, Bai Y. Cobalt and nickel distribution and controlling factors in the Bushveld layered complex, Ore Geology Reviews. 2024; 170: 106130. <https://doi.org/10.1016/j.oregeorev.2024.106130>

2023

**Luo Y**, Wang J, Xiao Y, Li W-J, Wang S-Y, Ding Z-Y, Liu Y-H, Zhang H-Y, Su B-X. Natural ilmenite reference material for trace elemental in situ microanalysis, Spectrochimica Acta Part B: Atomic Spectroscopy. 2023; 209: 106798. <https://doi.org/10.1016/j.sab.2023.106798>

Wang J, Su B-X, Gao B-Y, Li W-J, Cui M-M, Liu X, **Luo Y**, Pan Q-Q, Jia L-H, Su L, Chen K-Y. Four Natural Chromite Reference Materials for the Determination of the First-Row Transition Elements and Gallium by LA-ICP-MS. Geostandards and Geoanalytical Research. 2023; 47: 683-695. <https://doi.org/10.1111/ggr.12496>

Liu S-K, Li W-J, Su B-X, Gao B-Y, Wang J, Wang C-L, **Luo Y**, Yan L-Z, Zhao Y. High-precision lithium isotopic analysis using the Nu Sapphire MC-ICP-MS. Journal of Analytical Atomic Spectrometry. 2023; 38: 656-666. <https://doi.org/10.1039/D2JA00371F>

Li W-J, Wang J, Cui M-M, Liu X, Jia L-H, Chen K-Y, Wu S-T, Gao B-Y, Xue D-S, Liu Y-H, Li C, **Luo Y**, Su B-X. Natural Clinopyroxene Reference Materials for *In Situ* Microanalysis. Geostandards and Geoanalytical Research. 2023; 47: 199-210. <https://doi.org/10.1111/ggr.12471>

2022

**Luo Y**, Su B-X, Thakurta J, Xiao Y, Bai Y. Fluid-Induced Inhomogeneous Cr-spinel in Dunite and Wehrlite from the Duke Island Complex, Southeastern Alaska. Minerals. 2022; 12(6):717. <https://doi.org/10.3390/min12060717>

2020

Cui M-M, Bai Y, **Luo Y**, Su B-X, Xiao Y, Wang J, Pan Q-Q, Gao D-L. Characteristics, petrogenesis and metallogenesis of Alaskan-type complexes. Mineral Deposits. 2020; 39(03): 581-618. [10.16111/j.0258-7106.2020.03.001](https://doi.org/10.16111/j.0258-7106.2020.03.001)

## **Awards and Honors:**

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First-class scholarship for graduate students

University of Chinese Academy of Sciences

2022 Awarded

Outstanding graduate of the Chengdu University of Technology in the year 2020

Chengdu University of Technology

2020 Awarded

First-class scholarship for undergraduate students

Chengdu University of Technology

2019 Awarded

National Encouragement Scholarship

Education Department of Sichuan Province

2018 Awarded

National Encouragement Scholarship

Education Department of Sichuan Province

2017 Awarded

## **Teaching Assistant Experience:**

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### **Course Instruction**

Fall 2024: Earth 114 — Geomaterials

Winter 2025: Earth 103 — Structural Geology

Spring 2025: Earth 161 — Earth Resources, Energy and Environment

## Summer 2025: Earth 20 — Geological Catastrophes

### **Key Responsibilities**

Led weekly laboratory sessions for undergraduate students

Developed instructional materials

Conducted office hours

Graded and provided feedback on laboratory reports/assignments

Assisted faculty with course development and curriculum improvements

### **Teaching Philosophy**

My approach emphasizes:

Hands-on, experiential learning in laboratory and field settings

Fostering inclusive learning environments