# CURRICULUM VITAE

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## EDUCATION

**University of Oxford**, 2023 – 2027 (Expected)
*Department of Earth Sciences*
Ph. D. in Earth Sciences

**Nanjing University**, 2019 - 2023
*School of Earth Sciences and Engineering*
B. Sc. in Biological Evolution and Environment
GPA: 4.53/5.0; Ranking: 2/35

## RESEARCH INTERESTS

Artificial intelligence in geology and paleontology
Quantitative stratigraphy
Biodiversity and its drivers in deep time

## SCHOLARSHIP/AWARDS

2024 Burdett-Coutts Fund (£ 2,200), Department of Earth Sciences, University of Oxford
2024 Barbinder Watson Fund (£ 500), St Hugh's College, University of Oxford
2023 Scholarship for Studying Abroad, China Scholarship Council
2022 China National Scholarship (¥ 10,000), Ministry of Education of China
2021 CHOW TAI FOOK Scholarship (First Prize, ¥ 8,000), Nanjing University
2020 The People's Scholarship (First Prize, ¥ 2,000), Ministry of Education of China

## JOBS/OUTREACH

**Demonstrator (teaching assistant)**, Jan 2024 – Jan 2025
Invertebrate Palaeontology lab section, University of Oxford

**Team Leader of Advocacy Group**, Jun 2022 – Jun 2023
Li Siguang Lecture Team, Nanjing University

**Peer Mentor**, Jun 2021 – Sept 2022
Nanjing University

## PUBLICATIONS

(*: Equal contribution)

Shi, Y., Shi, Y., Yang, A., **Huang, H.**, Deng, Y., et al. (2026). Miaolingian-Furongian (Cambrian) high-resolution marine species richness patterns of the North China Block. *Global and Planetary Change*, 259, 105346. DOI: https://doi.org/10.1016/j.gloplacha.2026.105346.

Chu, T.*, **Huang, H.***, Fan, J., Deng, Y., Xu, T., et al. (2025). HORSE: Harmonize Regional and Global Stratigraphic Records through Horizon Sequencing. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 670, 112976. DOI: https://doi.org/10.1016/j.palaeo.2025.112976.

**Huang, H.**, Shi, Y., Chen, Q., Xu, H., Song, S., et al. (2024). An image dataset of fusulinid foraminifera generated with the aid of deep learning. *Geoscience Data Journal*, 11, 46–56. DOI: https://doi.org/10.1002/gdj3.215

Huang, H., Wen, D., **Huang, H.** (2023). Classic formula, updated algorithm and application of rarefaction: bias correction in fossil diversity through subsampling. *Acta Palaeontologica Sinica*, 2023, 03. DOI: https://doi.org/10.19800/j.cnki.aps.2023004 (In Chinese with English abstract)

Hou, C.*, Lin, X.*, **Huang, H.***, Xu, S., Fan, J., et al. (2023). Fossil image identification using deep learning ensembles of data augmented multiviews. *Methods in Ecology and Evolution*, 14, 3020–3034. DOI: https://doi.org/10.1111/2041-210X.14229

## CONFERENCES

Chu, T., **Huang, H.**, Fan, J. (2024). HORSE: a new quantitative stratigraphic method that harmonizes regional and global stratigraphic records for geological timescale and evolutionary study. *GSA Connects 2024, Geological Society of America*.

**Huang, H.**, Shi, Y., Hou, C., Lin, X., Xu, S., Chen, Q., et al. (2024). Microfossil automatic identification using integrated deep-learning models. *12th North American Paleontological Convention*.

**Huang, H.**, Hou, C., Lin, X., Shi, Y., Lv, H., Fan, J. (2023). Large image dataset of fusulinids and automatic identification using multi-view ensemble learning. *the 8th Biennial Academic Conference of the Paleontological Society of China, Paleoenvironmental Professional Committee*. (in Chinese) (Distinguished student oral report)

## FIELD TRIPS

Yunnan Province, field work, 2022

Chaohu, field mapping, 2022

Jiangsu Province and its surrounding regions, field work, 2020-2021

## SKILLS

**Programming languages**:

- Proficiency: Python (for machine learning and data analysis), R (for data analysis)
- Basics: C/C++

**Software**:

- Proficiency: Microsoft Office, Photoshop, CorelDRAW, PAST
- Basics: Origin, MEGA, MATLAB, Mathematica, etc.