Boheng Shen

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ORCID: 0009-0002-0839-3518 **Researchgate:** Shen Bo-heng **Scopus ID:** 57203898458
Google Scholar: https://scholar.google.com/citations?user=PbpsfFQAAAAJ&hl=en **Researcher ID**: AFY-0934-2022

During my PhD, my research interests primarily focus on the Carboniferous-Permian stratigraphic correlation, provenance analysis, and high-precision palaeogeographic reconstruction of the North China Block (NCB). Currently, my research interests are centered on the establishment of the Permian strata scale and high-precision palaeogeographic reconstruction of the Sichuan Basin.

I am proficient in the research methods of stratigraphy, sedimentology, and palaeogeography. Additionally, I am experienced in in the use of geographical information system software platforms such as ArcGIS and GPlates, as well as the method of the detrital zircon U-Pb dating.

I consistently keep abreast of the latest developments in Earth sciences, particularly in solid Earth sciences. During my PhD, I organize volunteers to track articles from high-level academic journals such as ***Nature***, ***Science***, and ***Geology***, and compile them into relevant digests. As of 2025, this activity has been ongoing for over four years and has gained considerable recognition within both the academic community and the general public in China as well as the international Chinese community.

Employment

PostD., Geology, Nanjing Institute of Geology and Palaeontology, Chinese Academy of Sciences
09/2024– Present

☀ High-resolution dynamic quantitative palaeogeographic reconstruction of the Sichuan Basin during the Permian era

Supervisor: Prof. Hua Zhang

Education

Ph.D., Geology, Nanjing University
09/2020– 09/2024

☀ High-resolution dynamic quantitative palaeogeographic reconstruction of the NCB during the Carboniferous and Permian eras

Supervisor: Prof. Shuzhong Shen

M.S., Paleontology and Stratigraphy, Nanjing University
09/2018– 08/2020

☀ The Carboniferous-Permian strata time scale of the NCB

Supervisor: Prof. Shuzhong Shen

B.S., Resources Exploration Engineering, China University of Petroleum (East China)
09/2014– 08/2018

☀ Strata correlation of the Ziniquanzi Formation on the southern margin of the Junggar Basin

Supervisor: Dr. Jinglin Yang

Research

12/2024--Present Participated in the National Key Research and Development Program of China (Grant No. XDB26000000)

06/2024--Present Participated in the Strategic Priority Research Program of the Chinese Academy of Sciences (Grant No. XDB0850301)

09/2018--Present Participated in the Strategic Priority Research Program of the Chinese Academy of Sciences (Grant No. XDB26000000)

Publications (First author)

Shen Boheng et al. (2024) Quantitative palaeogeographical reconstruction of the North China Block during the Carboniferous and Permian transition: Implications of coal accumulation and source rock development [J]. ***Palaeogeography, Palaeoclimatology, Palaeoecology,*** 640, 112102.

Shen Boheng et al. (2022) Carboniferous and Permian integrative stratigraphy and timescale of North China Block [J]. ***Science China Earth Sciences***, 65(6): 983-1011.

Shen Boheng et al. (2022) Carboniferous and Permian integrative stratigraphy and timescale of North China Block [J]. ***Science China Earth Sciences***, 52(7): 1181-1212. (In Chinese)

Shen Boheng et al. (2021) Permian lithostratigraphic subdivision and correlation of China [J]. ***Journal of Stratigraphy***, 45(03): 319-339. (In Chinese with English abstract)

Academic Conferences

05/2024 The 4th International Conference of Palaeogeography

08/2023 The 16th National Conference on Palaeogeography and Sedimentology

09/2019 The 4th International Conference of Palaeogeography

Laboratory Skills and Academic Interests

- **Analytical instruments**: LA-ICP-MS
  Extensive experiences in detrital zircon U-Pb dating (nearly 2,000 detrital zircon grains)
- **Software**: ArcGIS, GPlates, Origin Lab, CorelDraw, Adobe illustrator
  Extensive experiences in quantitate palaeogeographic reconstructions (based on 500+ sections)
  Proficient in the use of ArcGIS and GPlates
- **Programming**: Python, R, C
  Extensive experiences in fundamental programming
- **Languages**: Chinese, English, Japanese, Deutsch

Field Work

Carboniferous-Permian strata in the Paleo Asian Ocean (PAO) tectonic realm,

including: **Craton Areas-North China Block (NCB)**

20+ outcrop sections (e.g., **Palougou**, **Xishan**, **Shichuanhe**), with 60 days of field work

Orogenic Belts-Junggar Terrane

6 outcrop sections (e.g., **Dalongkou**, **Hongyanchi**), with 30 days of field work

Orogenic Belts-Xilinhot Terrane

8 outcrop sections (e.g., **Linxi**, **Taohaiyingzi**), with 15 days of field work

Awards and Honors

Nanjing University: Outstanding Graduate, The First-class Excellent Graduate Scholarship, Zheng Gang Elite Scholarship, The First-class Prize Scholarship

China University of Petroleum (East China): The First-class Prize Scholarship, Tarim Oil company Scholarship