

Stanford



Pulkit Singh

Postdoctoral Scholar, Earth and Planetary Sciences

Bio

PROFESSIONAL EDUCATION

- Doctor of Philosophy, Stanford University , GS-PHD (2024)
- Masters, Rice University , Subsurface Geoscience (2016)
- Integrated M.Tech, Indian Institute of Technology, Roorkee , Geological Technology (2014)

STANFORD ADVISORS

- Jonathan Payne, Postdoctoral Faculty Sponsor

Research & Scholarship

LAB AFFILIATIONS

- Jonathan Payne, Paleobiology Lab (9/25/2017)

Teaching

COURSES

2025-26

- Topics in Geobiology: EPS 208 (Spr)

2024-25

- Topics in Geobiology: EPS 208, ESS 208 (Win)

Publications

PUBLICATIONS

- **The Sedimentary Geochemistry and Paleoenvironments Project Phase 2 data release: An open data resource for the study of Earth's environmental history** *CHEMICAL GEOLOGY*
Farrell, U. C., Olson, H. C., Thompson, M. O., Abshire, M. L., Adeboye, O. O., Ahm, A. C., Alcott, L. J., Algeo, T. J., Anderson, R. P., Ansari, A. H., Heckert Bastos, L., Bauer, K. W., Beaty, et al
2026; 712
- **Macroevolutionary coupling of marine biomass and biodiversity across the Phanerozoic.** *Current biology : CB*
Singh, P., Ferré, J., Thrasher, B., Monarrez, P. M., Al-Ramadan, K., Cantrell, D. L., Lehrmann, D. J., Morsilli, M., Payne, J. L.
2025
- **Calcium isotopes support spatial redox gradients on the Tethys European margin across the Triassic-Jurassic boundary** *CHEMICAL GEOLOGY*

Prow-Fleischer, A. N., Lu, Z., Blattler, C. L., He, T., Singh, P., Kemeny, P., Todes, J. P., Pohl, A., Bhattacharya, T., van de Schootbrugge, B., Wignall, P. B., Todaro, S., Payne, et al

2025; 673

- **Selectivity of mass extinctions: Patterns, processes, and future directions.** *Cambridge prisms. Extinction*

Payne, J. L., Al Aswad, J. A., Deutsch, C., Monarrez, P. M., Penn, J. L., Singh, P.

2023; 1: e12

- **Reduction in animal abundance and oxygen availability during and after the end-Triassic mass extinction.** *Geobiology*

Singh, P., Lu, W., Lu, Z., Jost, A. B., Lau, K., Bachan, A., van de Schootbrugge, B., Payne, J. L.

2022

- **Proliferation of Chondrodonta as a proxy of environmental instability at the onset of OAE1a: Insights from shallow-water limestones of the Apulia Carbonate Platform** *SEDIMENTOLOGY*

Del Viscio, G., Frijia, G., Posenato, R., Singh, P., Lehrmann, D. J., Payne, J. L., Al-Ramadan, K., Struck, U., Jochum, K. P., Morsilli, M.

2021

- **A GENERAL MODEL FOR GROWTH TRAJECTORIES OF LINEAR CARBONATE PLATFORMS** *JOURNAL OF SEDIMENTARY RESEARCH*

Goudemand, N., Singh, P., Payne, J. L.

2020; 90 (9): 1139–55