

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

- **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