Stanford

Ashley Prow Fleischer

Postdoctoral Scholar, Earth and Planetary Sciences

Curriculum Vitae available Online

Bio

BIO

I earned a PhD in Earth Science with a focus in paleoclimatology from Syracuse University, where my research focused on reconstructing past environmental change and biotic responses using microfossils and geochemical proxies. My work integrates stratigraphy, paleobiology, geochemistry, and climate modeling to better understand Earth's climate dynamics during the intervals of rapid change, like the Late Devonian and end Triassic mass extinctions.

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Student Advisory Council Member, Geological Society of America (2025 - present)
- Board Member, Clark Reservation State Park (NY) (2023 - 2025)

STANFORD ADVISORS

- Jonathan Payne, Postdoctoral Faculty Sponsor

Research & Scholarship

LAB AFFILIATIONS

- Jonathan Payne (7/9/2025)

Teaching

COURSES

2025-26

- Topics in Geobiology: EPS 208 (Spr)

Publications

PUBLICATIONS

- **A Laser Ablation ICP-MS Protocol for High-Resolution Iodine-to-Calcium Ratio (I/Ca) Analysis on Corals.** *Rapid communications in mass spectrometry : RCM*
  Prow-Fleischer, A. N., Lu, Z.
  2025; 39 (9): e10002
- **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

- **Body-size reductions in dacryoconarid tentaculitoids during Late Devonian warming** *GEOSPHERE*
  Prow-Fleischer, A. N., Lu, Z., Meehan, K. C., Yang, Z., Ivany, L. C., Payne, J. L.
  2024

- **Extraction of calcareous dacryoconarid microfossils from limestones and mudrocks by surfactants paired with freeze-thaw processing** *MARINE MICROPALEONTOLOGY*
  Prow, A. N., Lu, Z., Frappier, A. B., Weisbeck, L. E., Underwood, C. R.
  2023; 180