Stanford

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Bio

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Plants display enormous diversity of forms today that, have evolved over geological timescales after plants successfully colonized land. Currently, I am interested in learning more about evolutionary changes in plant structures including specialized reproductive organs of seed plants. I study plant fossil record from deep time and living plants with the aim to develop a better understanding of origins of plant reproductive structures and drivers of morphological evolution in plants. Previously, I have looked at spore-pollen record preserved in sedimentary rocks from Canada. These microscopic fossils and their distribution in space and time can help us elucidate the response of vegetation to past extinction events.

Publications

PUBLICATIONS

- **Dacrycarpoides, a new genus of extinct Podocarpaceae (Coniferales) from the early Miocene of New Caledonia.** *American journal of botany*
  Patel, N. U., Cantrill, D. J., Crane, P., Garrouste, R., Lowry, P. P., Maurizot, P., Munzinger, J., Leslie, A. B.
  2025: e70041
- **A maritime location reduced palynofloral turnover and extirpation across the end Cretaceous boundary interval on the west coast of Canada** *CRETACEOUS RESEARCH*
  Patel, N. U., Mclachlan, S. M. S., Galloway, J. M., Greenwood, D. R., Pospelova, V.
  2025; 166