

# Stanford

---



## Connor Nolan

Postdoctoral Scholar, Earth System Science

### CONTACT INFORMATION

- **Alternate Contact**

**Email** [connorjnolan@gmail.com](mailto:connorjnolan@gmail.com)

### Bio

---

#### INSTITUTE AFFILIATIONS

- Postdoctoral Scholar, Stanford Woods Institute for the Environment

#### PROFESSIONAL EDUCATION

- Bachelor of Science, Iowa State University (2012)
- Doctor of Philosophy, University of Arizona (2019)
- Ph.D, University of Arizona , Geosciences (2019)
- B.S., Iowa State University , Mathematics (2012)
- B.S, Iowa State University , Biology (2012)

#### LINKS

- Personal Website: <https://connornolan.science>

### Publications

---

#### PUBLICATIONS

- **The future of ecosystem assessments is automation, collaboration, and artificial intelligence** *ENVIRONMENTAL RESEARCH LETTERS*  
Garcia, C., Bagstad, K. J., Brun, J., Chaplin-Kramer, R., Dhu, T., Murray, N. J., Nolan, C. J., Ricketts, T. H., Sosik, H. M., Sousa, D., Willard, G., Halpern, B. S.  
2023; 18 (1)
- **Fire effects on the persistence of soil organic matter and long-term carbon storage** *NATURE GEOSCIENCE*  
Pellegrini, A. A., Harden, J., Georgiou, K., Hemes, K. S., Malhotra, A., Nolan, C. J., Jackson, R. B.  
2021
- **A latest Pleistocene and Holocene composite tephrostratigraphic framework for northeastern North America** *QUATERNARY SCIENCE REVIEWS*  
Jensen, B. L., Davies, L. J., Nolan, C., Pyne-O'Donnell, S., Monteath, A. J., Ponomareva, V., Portnyagin, M., Booth, R., Bursik, M., Cook, E., Plunkett, G., Vallance, J. W., Luo, et al  
2021; 272
- **Constraints and enablers for increasing carbon storage in the terrestrial biosphere** *NATURE REVIEWS EARTH & ENVIRONMENT*  
Nolan, C. J., Field, C. B., Mach, K. J.  
2021

- **Pollen-based climate reconstruction techniques for late Quaternary studies** *EARTH-SCIENCE REVIEWS*  
Chevalier, M., Davis, B. S., Heiri, O., Seppa, H., Chase, B. M., Gajewski, K., Lacourse, T., Telford, R. J., Finsinger, W., Guiot, J., Kuhl, N., Maezumi, S., Tipton, et al  
2020; 210
- **PREDICTING PALEOCLIMATE FROM COMPOSITIONAL DATA USING MULTIVARIATE GAUSSIAN PROCESS INVERSE PREDICTION** *ANNALS OF APPLIED STATISTICS*  
Tipton, J. R., Hooten, M. B., Nolan, C., Booth, R. K., McLachlan, J.  
2019; 13 (4): 2363–88
- **Comparing and improving methods for reconstructing peatland water-table depth from testate amoebae** *Holocene*  
Nolan, C., Tipton, J., Booth, R. K., Hooten, M. B., Jackson, S. T.  
2019; 29 (8): 1350–61
- **Past and future global transformation of terrestrial ecosystems under climate change** *SCIENCE*  
Nolan, C., Overpeck, J. T., Allen, J. M., Anderson, P. M., Betancourt, J. L., Binney, H. A., Brewer, S., Bush, M. B., Chase, B. M., Cheddadi, R., Djamali, M., Dodson, J., Edwards, et al  
2018; 361 (6405): 920–23
- **Placing the Common Era in a Holocene context: millennial to centennial patterns and trends in the hydroclimate of North America over the past 2000 years** *CLIMATE OF THE PAST*  
Shuman, B. N., Routson, C., McKay, N., Fritz, S., Kaufman, D., Kirby, M. E., Nolan, C., Pederson, G. T., St-Jacques, J.  
2018; 14 (5): 665–86
- **Climatic history of the northeastern United States during the past 3000 years** *CLIMATE OF THE PAST*  
Marlon, J. R., Pederson, N., Nolan, C., Goring, S., Shuman, B., Robertson, A., Booth, R., Bartlein, P. J., Berke, M. A., Clifford, M., Cook, E., Dieffenbacher-Krall, A., Dietze, et al  
2017; 13 (10): 1355–79