

# Stanford

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## Kimber Moreland, Ph.D.

Physical Science Research Scientist  
Earth System Science

### Bio

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#### ACADEMIC APPOINTMENTS

- Physical Science Research Scientist, Earth System Science

#### PROFESSIONAL EDUCATION

- Ph.D., University of California, Merced , Soil Biogeochemistry (2020)
- B.S., Regis University , Biology & Ecology (2014)

### Research & Scholarship

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#### CURRENT RESEARCH AND SCHOLARLY INTERESTS

Currently my research mainly focuses on soil carbon biogeochemistry in different land use types such as agriculture, forests, meadows, and grasslands. I use stable and radioactive isotopes to trace the movement of carbon and nitrogen through the entire soil system. Specifically, I have focused on response to fire, disturbance, and climate change.

### Publications

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#### PUBLICATIONS

- **Prescribed fire and pine straw: Soil carbon dynamics in longleaf pine (<i>Pinus palustris</i>) under two common management strategies** *CATENA*  
Moss, A., Clabo, D., Moreland, K., Abney, R. B.  
2025; 261
- **Storage and persistence of organic carbon in the upper three meters of soil under arable and native prairie land use** *PLANT AND SOIL*  
Anuo, C. O., Li, L., Moreland, K. C., Mcfarlane, K. J., Malakar, A., Cooper, J. A., Maharjan, B., Kaiser, M.  
2025; 509 (1-2): 157-179