Stanford



Kimber Moreland, Ph.D.

Physical Science Research Scientist, Earth System Science

Bio

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

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

PUBLICATIONS

- **Prescribed fire and pine straw: Soil carbon dynamics in longleaf pine (Pinus palustris) 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