



Sandra R. Holden, Ph.D.

Associate Director of Alliances and Special Projects, Vice Provost and Dean of Research

Bio

EDUCATION AND CERTIFICATIONS

- PhD, University of California Irvine , Ecology and Evolutionary Biology (2014)
- BS, Gonzaga University , Biology (2009)

Professional

PROFESSIONAL AFFILIATIONS AND ACTIVITIES

- Member, National Organization of Research Development Professionals (2015 - present)

Publications

PUBLICATIONS

- **Source signatures from combined isotopic analyses of PM_{2.5} carbonaceous and nitrogen aerosols at the peri-urban Taehwa Research Forest, South Korea in summer and fall** *SCIENCE OF THE TOTAL ENVIRONMENT*
Lim, S., Lee, M., Czimczik, C. I., Joo, T., Holden, S., Mouteva, G., Santos, G. M., Xu, X., Walker, J., Kim, S., Kim, H., Kim, S., Lee, et al
2019; 655: 1505–14
- **Smoke radiocarbon measurements from Indonesian fires provide evidence for burning of millennia-aged peat** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Wiggins, E. B., Czimczik, C. I., Santos, G. M., Chen, Y., Xu, X., Holden, S. R., Randerson, J. T., Harvey, C. F., Kai, F., Yu, L. E.
2018; 115 (49): 12419–24
- **Fire severity influences the response of soil microbes to a boreal forest fire** *ENVIRONMENTAL RESEARCH LETTERS*
Holden, S. R., Rogers, B. M., Treseder, K. K., Randerson, J. T.
2016; 11 (3)
- **Decreases in soil moisture and organic matter quality suppress microbial decomposition following a boreal forest fire** *SOIL BIOLOGY & BIOCHEMISTRY*
Holden, S. R., Berhe, A. A., Treseder, K. K.
2015; 87: 1-9
- **Quantifying fire-wide carbon emissions in interior Alaska using field measurements and Landsat imagery** *JOURNAL OF GEOPHYSICAL RESEARCH-BIOGEOSCIENCES*
Rogers, B. M., Veraverbeke, S., Azzari, G., Czimczik, C. I., Holden, S. R., Mouteva, G. O., Sedano, F., Treseder, K. K., Randerson, J. T.
2014; 119 (8): 1608-1629
- **Factors affecting host range in a generalist seed pathogen of semi-arid shrublands** *PLANT ECOLOGY*
Beckstead, J., Meyer, S. E., Reinhart, K. O., Bergen, K. M., Holden, S. R., Boekweg, H. F.
2014; 215 (4): 427-440

- **A meta-analysis of soil microbial biomass responses to forest disturbances** *FRONTIERS IN MICROBIOLOGY*
Holden, S. R., Treseder, K. K.
2013; 4
- **Fungal Carbon Sequestration** *SCIENCE*
Treseder, K. K., Holden, S. R.
2013; 339 (6127): 1528-1529
- **Changes in Soil Fungal Communities, Extracellular Enzyme Activities, and Litter Decomposition Across a Fire Chronosequence in Alaskan Boreal Forests** *ECOSYSTEMS*
Holden, S. R., Gutierrez, A., Treseder, K. K.
2013; 16 (1): 34-46
- **The effect of fire on microbial biomass: a meta-analysis of field studies** *BIOGEOCHEMISTRY*
Dooley, S. R., Treseder, K. K.
2012; 109 (1-3): 49-61
- **Evidence for Different Contributions of Archaea and Bacteria to the Ammonia-Oxidizing Potential of Diverse Oregon Soils** *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*
Taylor, A. E., Zeglin, L. H., Dooley, S., Myrold, D. D., Bottomley, P. J.
2010; 76 (23): 7691-7698
- **Characterizing the interaction between a fungal seed pathogen and a deleterious rhizobacterium for biological control of cheatgrass** *BIOLOGICAL CONTROL*
Dooley, S. R., Beckstead, J.
2010; 53 (2): 197-203