

YANG LIN

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Professional Preparation

Zhejiang University, China (Biological Sciences)	BS	2007
University of Alberta, Canada (Soil Science)	MS	2010
University of California, Santa Barbara (Geography)	PhD	2015
University of California, Berkeley	Post-doc	2019

Appointment

Starting January, 2020 Assistant Professor, Soil and Water Sciences Department, Institute of Food and Agricultural Sciences, University of Florida, Gainesville, FL 32611

Research Interests

Soil health, soil carbon cycling, decomposition, and soil mapping

Selected Publications (undergraduate mentee co-author underlined>

Gross A*, **Lin Y***, Weber PK, Pett-Ridge J, and Silver WS. (2019) The role of soil redox conditions in microbial phosphorus cycling in humid tropical forests. *Ecology*, in press. *, equal contribution.

Lin Y, Slessarev EW, Yehl S, D'Antonio CM, and King JY. (2019) Long-term nutrient fertilization increased soil carbon storage in California grasslands. *Ecosystems* 22, 754-766.

Bhattacharyya A, Campbell AN, Tfaily MM, **Lin Y**, Silver WS, Nico PS, and Pett-Ridge J. (2018) Redox fluctuations control the coupled cycling of iron and carbon in tropical forest soils. *Environmental Science and Technology* 52, 14129–14139.

Lin Y, Bhattacharyya A, Campbell AN, Nico PS, Pett-Ridge J, and Silver WS. (2018) Phosphorus fractionation responds to dynamic redox conditions in a humid tropical forest soil. *Journal of Geophysical Research: Biogeosciences* 123, 3016-3027.

Shi Z, **Lin Y**, Wilcox KR, Jiang L, Jung CG, Xu X, Yuan M, Guo X, Zhou J, and Luo Y. (2018) Successional change in species composition alters climate sensitivity of grassland productivity. *Global Change Biology* 24: 4993-5003.

Lin Y, King JY, Karlen SD, and Ralph J. (2018) Short-term facilitation of microbial litter decomposition by ultraviolet radiation. *Science of the Total Environment* 615, 838–848.

Adair CE, Parton WJ, King JY, Brandt LA, and **Lin Y**. (2017) Accounting for photodegradation dramatically improves prediction of carbon losses in dryland systems. *Ecosphere* 8, e01892.

Lin Y, Prentice SE, Tran T, Bingham NL, King JY, and Chadwick OA. (2016) Modeling deep soil properties on California grassland hillslopes using LiDAR digital elevation models. *Geoderma Regional* 7, 67–75.

Slessarev EW, **Lin Y**, Bingham NL, Johnson JE, Dai Y, Schimel JP, Chadwick OA. (2016) Water balance defines a threshold in soil pH at the global scale. *Nature* 540, 567-569.

Xu X, Shi Z, Chen XC, **Lin Y**, Niu SL, Jiang LF, Luo RS, and Luo YQ. (2016) Unchanged carbon balance driven by equivalent responses of production and respiration to climate change in a mixed grass prairie. *Global Change Biology* 22, 1857-1866.

- Lin Y**, King JY, Karlen SD, and Ralph J. (2015) Using 2D NMR spectroscopy to assess effects of UV radiation on cell wall chemistry during litter decomposition. *Biogeochemistry* 125: 427-436.
- Lin Y**, Scarlett RD, and King JY. (2015) Effects of UV photodegradation on subsequent microbial decomposition of *Bromus diandrus* litter. *Plant and Soil* 395: 263-271.
- Lin Y** and King JY. (2014) Effects of UV exposure and position on litter decomposition in a California grassland. *Ecosystems* 17: 158-168.
- Lin Y**, Han G, Zhao M, and Chang SX. (2010) Spatial vegetation patterns as early signs of desertification: a case study of a desert steppe in Inner Mongolia, China. *Landscape Ecology* 25, 1519-1527.
- Lin Y**, Hong M, Han G, Zhao M, Bai Y, and Chang SX. (2010) Grazing intensity affected spatial patterns of vegetation and soil fertility in a desert steppe. *Agriculture, Ecosystems and Environment* 138, 282-292.

Synergistic Activities

1. NSF Doctoral Dissertation Improvement Grant in the Directorate for Biological Sciences (2014, \$19,505), Graduate Division Dissertation Fellowship, University of California, Santa Barbara (2014, \$12,647), and co-author, Faculty Research Grant of Dr. Jennifer King, University of California, Santa Barbara (2015, \$6,800).
2. Session co-convenor, 2014 and 2016 American Geophysical Union Annual Fall Meetings.
3. I have mentored > 10 undergraduate students on their independent research projects. Many have presented their work at local and/or national conferences. Several mentees are publishing their results or have coauthored peer-reviewed publications with me.
4. I am active in reaching out to K-12 students in ethnically diverse schools via guest lecturing, mentoring student research, and science fair demonstrations.
5. Reviewer for peer-reviewed journals including *Biogeochemistry*, *Biogeosciences Discussion*, *Ecology*, *Ecosystems*, *Functional Ecology*, *Global Change Biology*, *Journal of Ecology*, *Journal of Geophysical Research: Biogeosciences*, *Proceedings of the National Academy of Sciences*, *Science of the Total Environment*, and *Soil Biology & Biochemistry*. Grant reviewer: Agriculture and Food Research Initiative, USDA-NIFA.

Graduate and Postdoctoral Advisors

Scott Chang (University of Alberta; MS Advisor), Jennifer King (University of California, Santa Barbara; PhD Advisor), Whendee Silver (University of California, Berkeley; Post-doc Advisor).