

YANG LIN

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EDUCATION

2010-2015 Ph.D. Geography, University of California, Santa Barbara
2007-2010 M.Sc. Soil Science, University of Alberta, Canada
2003-2007 B.Sc. Biological Sciences, Zhejiang University, China

RESEARCH INTERESTS

environmental science | soil health | biogeochemistry | ecosystem ecology | soil organic matter | redox biogeochemistry

ACADEMIC POSITIONS

2020-present Assistant Professor, University of Florida
2016-2019 Postdoctoral Scholar, University of California, Berkeley
2015-2016 Postdoctoral Scholar, University of California, Santa Barbara
2010-2015 Graduate Research and Teaching Assistant, University of California, Santa Barbara
2007-2010 Graduate Research and Teaching Assistant, University of Alberta

REFERRED PUBLICATIONS

(^uUndergraduate students, ^GGraduate student from my group, ^gOther graduate students)

Journal Articles

33. Wang X^u, Zhang H, Sun H, Chang SX, **Lin Y**, and Cai Y. Converting natural forests to tea plantations reduced soil phosphorus sorption capacity in subtropical China. *Land Degradation & Development*. In press. DOI: 10.1002/ldr.4943.
32. Nyabami P^G, Maltais-Landry G, and **Lin Y**. Nitrogen release dynamics of cover crop mixtures in a subtropical agroecosystem were rapid and species-specific. *Plant and Soil*. In press. DOI: 10.1007/s11104-023-06183-4.
31. Xu M^{G*}, **Lin Y***, Ma J, Gao P, Yang G, Song C, Zhang X, Long L, Chen C, and Wu J. Biochar regulated biogeochemical cycling of iron and chromium in paddy soil system by stimulating *Geobacter* and *Clostridium*. *Pedosphere*. *, equal contribution. In press. DOI: 10.1016/j.pedsph.2023.07.013.
30. Champiny RE^G, Bacon AR, Brush ID^u, Colopietro DJ^g, McKenna AM, and **Lin Y**. (2024) Unraveling the persistence of deep podzolized carbon: insights from organic matter characterization. *Science of the Total Environment* 906, 167382. DOI: 10.1016/j.scitotenv.2023.167382.
29. Mahmood S^G, Nunes MR, Kane DA, and **Lin Y**. (2023) Soil health explains the yield-stabilizing effects of soil organic matter under drought. *Soil & Environmental Health* 1, 100048. DOI: 10.1016/j.seh.2023.100048. Editor's choice.

28. Almaraz M, Groffman PM, Silver WL, Hall SJ, **Lin Y**, O'Connell CS, and Porder S. (2023) Dinitrogen emissions dominate nitrogen gas emissions from soils with low oxygen availability in a moist tropical forest. *Journal of Geophysical Research: Biogeosciences*, 128. e2022JG007210.
27. Xu M^G, **Lin Y**, da Silva EB, Cui Q^G, Gao P, Wu J, and Ma LQ. (2022) Effects of copper and arsenic on their uptake and distribution in As-hyperaccumulator *Pteris vittata* L. *Environmental Pollution* 300, 118982.
26. **Lin Y***, Gross A*, and Silver WS. (2022) Low redox decreases potential phosphorus limitation on soil biogeochemical cycling along a tropical rainfall gradient. *Ecosystems* 25, 387–403. *, equal contribution.
25. Muthukrishnan R, Hayes K, Bartowitz K, Cattau ME, Harvey BJ, **Lin Y**, and Lunch C. (2022) Harnessing NEON to evaluate ecological tipping points: opportunities, challenges, and approaches. *Ecosphere* 13, e3989.
24. Nagy RC, Balch JK, others, and NEON Science Summit Participants including **Lin Y**. (2021) Harnessing the NEON data revolution to advance open environmental science with a diverse and data-capable community. *Ecosphere* 12, e03833.
23. Qin C, Bartelme R, Chung YA, Fairbanks D, **Lin Y**, Liptzin D, Muscarella C, Naithani K, Peay K, St Rose A, Stanish L, Pellitier P, Werbin Z, and Zhu K. (2021) From DNA sequences to microbial ecology: Wrangling NEON soil microbe data with the *neonMicrobe* R package. *Ecosphere* 12, e03842.
22. **Lin Y**, Campbell AN, Bhattacharyya A, Didonato N, Thompson AM, Tfaily MM, Nico PS, Silver WS, and Pett-Ridge J. (2021) Differential effects of redox conditions on the decomposition of litter and soil organic matter. *Biogeochemistry Letters* 154, 1-15.
21. Chari NR^u, **Lin Y**, Lin YS, Silver WS. (2021) Interactive effects of temperature and redox on soil carbon and iron cycling. *Soil Biology and Biochemistry* 157, 108235.
20. Slessarev EW, **Lin Y**, Jimenez BY^u, Homyak PM, Chadwick OA, D'Antonio CM, and Schimel JP. (2020) Cellular and extracellular C contributions to soil respiration after wetting dry soil. *Biogeochemistry* 147, 307–324.
19. **Lin Y**, Gross A, O'Connell CS, and Silver WS. (2020) Anoxic conditions maintained high phosphorus sorption in humid tropical forest soils. *Biogeosciences* 17, 89-101.
18. Gross A*, **Lin Y***, Weber PK, Pett-Ridge J, and Silver WS. (2020) The role of soil redox conditions in microbial phosphorus cycling in humid tropical forests. *Ecology* 101, e02928. *, equal contribution.
17. **Lin Y**, Slessarev EW, Yehl S^u, D'Antonio CM, and King JY. (2019) Long-term nutrient fertilization increased soil carbon storage in California grasslands. *Ecosystems* 22, 754-766.
16. 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.
15. **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.
14. 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.

13. Miller DL, Roberts DA, Clarke KC, **Lin Y**, Menzer O, Peters EB, McFadden JP. (2018) Gross primary productivity of a large metropolitan region using high spatial resolution satellite imagery. *Urban Ecosystems* 21, 831–850.
12. **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.
11. 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.
10. **Lin Y**, Prentice SE, Tran T^u, 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.
9. 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.
8. 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.
7. **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.
6. **Lin Y**, Scarlett RD^u, and King JY. (2015) Effects of UV photodegradation on subsequent microbial decomposition of *Bromus diandrus* litter. *Plant and Soil* 395: 263–271.
5. **Lin Y** and King JY. (2014) Effects of UV exposure and position on litter decomposition in a California grassland. *Ecosystems* 17: 158–168.
4. **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.
3. **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.
2. Wu J, Jiang P, Chang SX, Xu Q, and **Lin Y**. (2010) Dissolved soil organic carbon and nitrogen were affected by conversion of native forests to plantations in subtropical China. *Canadian Journal of Soil Science* 90, 27–36.
1. Yang X, Pattison S, **Lin Y**, Ikehata K, Lau BLT, Chang SX, and Liu Y. (2009) Agricultural wastes. *Water Environment Research* 81, 1490–1544.

In review or in preparation (only manuscripts with complete drafts are listed; available upon request)

Nyabami P^G, Weinrich E, Maltais-Landry G, and **Lin Y**. Three years of cover crops management increased soil organic matter and labile carbon pools in a subtropical vegetable agroecosystem. *Agrosystems, Geosciences & Environment*. Major revision.

Champiny RE^G and **Lin Y**. Enhanced rock weathering as a nature-based solution for carbon sequestration in sandy soils. Book chapter in *Progress in Soil Science Series*. In review.

Kellerman AM, **Lin Y**, McKenna AM, Osborne TZ, Lee Y^G, Freitas AM, Chanton JP, and Spencer RG. Identifying the molecular signatures of biosolids organic matter inputs revealed by 21 Tesla FT-ICR Mass Spectrometry. In review.

Champiny RE^G, Sharma-Inglett K, and **Lin Y**. Carbon and nitrogen addition primed the decomposition of deep podzolized carbon. In preparation.

GRANTS AND AWARDS

- 2023-2024 PI with graduate student Co-PI Franky Celestin, Florida Cattle Enhancement Board, “Rapid and cost-effective prediction of soil health indicators for Florida ranchlands”. **\$24,907**.
- 2023-2025 Co-PI with graduate student Co-PI Noel Manirakiza, USDA SARE Graduate Student Grant, “Examining carbon-farming practices to address soil sustainability in the Everglades Agricultural Area, South Florida”. **\$16,500**.
- 2023-2024 PI, Archer Early Career Seed Grant, UF IFAS, “Developing the Florida Soil Health Database”. **\$49,969**.
- 2023-2024 Co-PI, St. Johns County Sponsored Projects, “Identifying Soil Health Sampling Scales for Corn Management”. \$9,652
- 2022-2027 Co-PI, St. Johns River Water Management District, “Environmental remediation technologies pilot project for treatment of biosolids-derived phosphorus from fields”. \$600,000 (my share, **\$88,000**).
- 2022-2024 Co-PI, Environmental Defense Fund, “Assessing a suite of indicators to predict soil carbon trajectories in agricultural systems”. \$280,000 (my share, **\$65,808**).
- 2022-2023 PI, Florida Cattle Enhancement Board, “Building a soil health database for Florida ranchlands”. **\$19,609**.
- 2022-2023 PI with graduate student Co-PI Precious Nyabami, VoLo Foundation Vista Grant, “Carbon sequestration: rewriting the role of modern agriculture in climate change”. **\$10,000**
- 2021-2026 PI, USDA-NIFA Food and Agricultural Sciences National Needs Graduate and Postgraduate Fellowship, “Data science training for future leaders in soil health research and extension”, **\$243,500**.
- 2021-2025 Co-PI, Florida Department of Agriculture and Consumer Services, Advances in FDACS Agricultural BMPs, “Integrated crop-livestock systems: validating plot-scale benefits through multi-farm demonstrations”. \$509,628 (my share, **\$12,900**).
- 2021-2024 Co-PI. St. Johns River Water Management District, “Transformation and transport of biosolids-derived phosphorus from fields to receiving waterbodies”. \$605,000 (my share, **\$89,000**).
- 2020-2021 PI, ICR User Facility, National High Magnetic Field Laboratory, “Chemical characterization of dissolved deep podzolized carbon”.
- 2015 Co-PI, Faculty Research Grant, University of California, Santa Barbara. “Soil carbon storage and stability under long-term nutrient fertilization” (\$6,800)
- 2014 NSF Doctoral Dissertation Improvement Grant in the Directorate for Biological Sciences. “Quantifying changes in lignin chemistry during photodegradation versus biotic decomposition using 2D NMR spectroscopy” (**\$19,505**)
- 2014 Graduate Division Dissertation Fellowship, University of California, Santa Barbara (**\$12,647**)
- 2014 Doctoral Student Travel Grant, Academic Senate, University of California, Santa Barbara (\$350)
- 2013-2014 Earth Research Institute Travel Grants, University of California, Santa Barbara (\$775)
- 2009 1st place student presentation, Alberta Soil Science Workshop (\$300)
- 2009 Mary Louise Imrie Graduate Student Award, University of Alberta (\$700)
- 2008 China Institute Travel Grant, University of Alberta (\$1000)

TEACHING AND MENTORING

Course Instructor

<u>Course</u>	<u>Unit</u>	<u>Term</u>	<u>Enrollment</u>
SWS4720C GIS in Soil and Water Sci.	3	Fall 2023	35
	3	Spring 2023	54
	3	Fall 2022	25
	3	Spring 2022	37
	3	Fall 2021	35
SWS4932/6932 Soil Health and Data	3	Fall 2023	6
	3	Fall 2022	16
	3	Spring 2021	7
IDS2935 Unintended Consequences in the Environment	3	Spring 2023	63
	3	Spring 2022	35
	3	Spring 2021	8
SWS4932/6932 Forest and Soil Ecosystem Services	3	Fall 2021	14
	3	Fall 2020	8

Graduate Students Advisees

<u>Student</u>	<u>Degree</u>	<u>Role</u>	<u>Years</u>
Xinlin Wang	M.S. Thesis	Co-advisor	2023-present
JoAnn Donald	M.S. Thesis	Advisor	2023-present
Ryan Champiny	Ph.D.	Advisor	2023-present
Sarah Thompson	M.S. Non-thesis	Advisor	2022-present
Courtney Roen	M.S. Thesis	Advisor	2022-present
Swarnali Mahmood	Ph.D.	Advisor	2022-present
Bridgette Hattle	M.S. Non-thesis	Advisor	2021-present
Franky Celestin	Ph.D.	Advisor	2021-present
Noel Manirakiza	Ph.D.	Co-advisor	2021-present
Julia Lee	M.S. Thesis	Co-advisor	2022-2023
Ryan Champiny	M.S. Thesis	Advisor	2021-2022
Precious Nyabami	M.S. Thesis	Advisor	2020-2022
Qinghong Cui	M.S. Non-thesis	Advisor	2020
Vaasuki Marupaka	Ph.D.	Committee member	2023-present
Justina Odogwu	Ph.D.	Committee member	2023-present
Cristina Gil	M.S. Thesis	Committee member	2023-present
Nevaeh Renwick	M.S. Thesis	Committee member	2023-present
Elaine Beauvais	M.S. Non-thesis	Committee member	2022-present
Victoria Tesch	M.S. Thesis	Committee member	2022-present
Julia Ferreira	Ph.D.	Committee member	2022-present
Daniel Colopietro	Ph.D.	Committee member	2020-2023
Angelique Lopez	M.S. Non-thesis	Committee member	2022-2023
Min Xu	Ph.D.	Visiting student	2020

Mentoring of Undergraduate Student Researchers

<u>Student</u>	<u>Experience</u>	<u>Years</u>
Audrey Plauche	Research for pay	2023-present
Isabella Marinelli	Research internship	2023
Isabella Brush	Honors thesis; research internship; research for pay	2022-2023
Daniil Fortuna	Research internship; research for pay	2022-2023
Gabrielle Fisher	Honors thesis; research internship	2021-2022
Wistride Lumas	Volunteer	2021-2022
Victoria Tesch	Volunteer	2021
Merina Ingram	Research internship	2021
Julia Lee	Research for pay	2021
Xinlin Wang	Honors thesis; University scholar	2020-2022
Nikhil Chari	Honors thesis; Summer Undergraduate Research Fellowship	2019-2020

Awards and Recognition of Advisees

<u>Student</u>	<u>Degree</u>	<u>Award/Recognition</u>	<u>Year</u>
Isabella Brush	UG	Frederick Smith Award (\$1,000)	2023
Julia Lee	M.Sc.	ASA-CSSA-SSSA Leadership Conference	2023
Julia Lee	M.Sc.	IFAS travel grant (\$250)	2023
Noel Manirakiza	Ph.D.	SARE Graduate Student Grant (\$16,500)	2023
Swarnali Mahmood	Ph.D.	Sam Polston Fellowship (\$1,000)	2023
Swarnali Mahmood	Ph.D.	ASA-CSSA-SSSA Leadership Conference	2023
Swarnali Mahmood	Ph.D.	CALS Scholarship (\$2,000)	2023
Swarnali Mahmood	Ph.D.	SWES Research Forum Best Poster Presentation (\$500)	2023
Ryan Champiny	Ph.D.	William Robertson Fellowship (\$1,000)	2023
Ryan Champiny	M.Sc.	SWES Excellence in Graduate Studies Award	2023
Isabella Brush	UG	Graetz Education Enrichment Fund (\$1,000)	2022
Precious Nyabami	M.Sc.	VoLo Foundation Vista Award (\$10,000)	2022
Ryan Champiny	M.Sc.	ESA Soil Ecology Section Travel Award (\$400)	2022
Daniil Fortuna	UG	CALS Research Internship (\$3,700)	2022
Swarnali Mahmood	Ph.D.	UF Grinter Award (\$6,900)	2021
Franky Celestin	Ph.D.	William C. and Bertha M. Cornett Fellowship	2021
Ryan Champiny	M.Sc.	SWES Biogeochemistry Fellowship (\$1,000)	2021
Precious Nyabami	M.Sc.	Graduate Student Council Travel Grant (\$350)	2021
Precious Nyabami	M.Sc.	IFAS Travel Grant (\$250)	2021
Xinlin Wang	UG	University Scholar Program (\$2,250)	2020

In-Service Training

2023	Guest lecture on soil health indicators for Florida Certified Crop Adviser Educational Program
2021	Guest lecture on soil health management for Florida Certified Crop Adviser Educational Program
2021	Co-organize a Soil Health extension IST (#316171) for county extension specialists and give lectures on the definitions and assessment of soil health.

INVITED SEMINARS

- 2023 SWES Department Research Forum
 2021 American Chemical Society Fall Meeting, Invited Oral Presentation, Geochemical section, Atlanta, GA.
 2019 Soil and Water Sciences Department, University of Florida, Gainesville, FL.
 2019 Program of Environmental Science, Whittier College, Whittier, CA.
 2019 Dept. of Environmental, Geographical, and Geological Sciences, Bloomsburg. University of Pennsylvania, Bloomsburg, PA.
 2017 Biogeosciences Seminar, University of California, Santa Barbara, Santa Barbara, CA.
 2016 Soil and Water Sciences Department, University of Florida, Gainesville, FL.
 2016 Tropical Research & Education Center, University of Florida, Homestead, FL.

WORKSHOPS

- 2023 Soil Spectroscopy for the Global Good workshop. St. Louis, MO.
 2023 EDF row crop greenhouse gas mitigation research workshop. Washington, D.C.
 2021 NSF NEON Workshop. Complex landscapes at Scale: Integrating our Understanding of Managed and Unmanaged Lands at Regional to Continental Scales. Virtual events due to COVID-19.
 2020 New Advances in Land Carbon Cycle Modeling. Northern Arizona University. Virtual events due to COVID-19.
 2019 Microbial Determinants of Phosphorus Transport Workshop, The Pennsylvania State University, University Park, PA.
 2019 NEON Science Summit, University of Colorado-Boulder, Boulder, CO.
 2016 Phosphorus Cycling in Terrestrial Ecosystems: Taking a new approach to advancing our fundamental understanding through a model-data connection, Oak Ridge National Lab, Townsend, TN.

PROFESSIONAL SERVICE

University and Departmental

- 2022-present SWES Teaching committee, Undergraduate Teaching Subcommittee
 2022 Selection committee, Ben Skulnick Fellowship, SWES
 2021 Faculty search committee member, nutrient cycling agroecologist, Agronomy Department, UF
 2021 Preview advisor for incoming first year undergraduate students
 2021 Selection committee, V.W. Carlisle Fellowship, SWES
 2021-2022 Faculty advisor for Strong Roots Movement. Winner of the 2022 Projects for Peace (UF, \$10,000 for promoting food and water accessibility in Kenya)
 2020-present Faculty advisor for the Agronomy-Soils Club
 2020 Selection committee, Sam Polston Fellowship, SWES

Editorial Activities

- 2023-present *Soil Use and Management*, Associate Editor
 2023-present *Soil & Environmental Health*, Editorial Board Member

Manuscript Review (the number of reviews is listed in parentheses)

Biogeochemistry, Biogeosciences, Biology and Fertility of Soils, Canadian Journal of Soil Science, CATENA, Chemosphere, Critical Reviews in Environmental Science and Technology, Ecology, Ecology and Evolution, Ecosystems, Environmental Science & Technology, European Journal of Soil Science, Functional Ecology, Geoderma, Global Biogeochemical Cycles, Global Change Biology, Journal of Arid Environments, Journal of Ecology, Journal of Geophysical Research: Biogeosciences, Journal of Plant Ecology, Journal of Soils and Sediments, Landscape Ecology, Nature, Nature Communications, New Phytologist, PeerJ, Plant and Soil, Proceedings of the National Academy of Sciences, Remote Sensing, Science of the Total Environment, Scientific Reports, Soil Biology & Biochemistry, Soil Science Society of America Journal, and Soil & Environmental Health.

- 2023 *Biogeochemistry* (1), *Critical Reviews in Environmental Science and Technology* (1), *Environmental Science & Technology* (1), *New Phytologist* (1), *Science of the Total Environment* (1), *Soil & Environmental Health* (2), *Soil Science Society of America Journal* (1).
- 2022 *Biogeochemistry* (1), *Chemosphere* (1), *EDIS* (2), *European Journal of Soil Science* (1), *Geoderma* (1), *Nature* (1), *New Phytologist* (1), *Soil Biology & Biochemistry* (1).
- 2021 *Biogeochemistry* (1), *Ecosystems* (1), *Geoderma* (3), *Science of the Total Environment* (1).
- 2020 *Biology and Fertility of Soils* (1), *Current Biology* (1), *Ecology and Evolution* (1), *Ecosystems* (1), *Global Biogeochemical Cycles* (1), *Global Change Biology* (1), *Journal of Geophysical Research: Biogeosciences* (1), *Nature Communications* (1), *Plant and Soil* (2), *PLoS One* (1), *Science of The Total Environment* (1).

Proposal Review

- 2021 Ad-hoc review for NSF-DEB core program.
- 2020 Ad-hoc reviews for NSF-DEB core program and OPUS.
- 2020 Ad-hoc review for National Science Center, Poland.
- 2019 Ad-hoc review for Agriculture and Food Research Initiative, USDA-NIFA.

PROFESSIONAL SOCIETIES

- Since 2012 American Geophysical Union
- Since 2014 Soil Science Society of America
- Since 2023 International Humic Substances Society

RECENT CONFERENCE PROCEEDINGS

- Brush I^a, Lee Y^G, and **Lin Y**. Impacts of biosolids application history and rate on soil phosphorus leaching loss. 2023 ASA, CSSA, SSSA International Annual Meeting.
- Lee Y^G and **Lin Y**. Predictability of phosphorus leaching from biosolids treated soils. 2023 ASA, CSSA, SSSA International Annual Meeting.
- Mahmood S^G and **Lin Y**. Hot water-extractable carbon indicates carbon trajectory in archived soils from long-term agricultural trials. 2023 ASA, CSSA, SSSA International Annual Meeting.

Champiny RE^G, Bacon A, and **Lin Y**. A deep dive into sandy soil carbon: characteristics and degradability of deep podzolized carbon in a southeastern US coastal plain soil. Oral presentation, 2023 Global Conference on Sandy Soils. Madison, WI.

Celestin F^G, Mylavarapu RS, and **Lin Y**. Soil health assessment across various cropping systems in Florida sandy soils. Oral presentation, 2023 Global Conference on Sandy Soils. Madison, WI.

Brush Iⁿ, Champiny RE^G, and **Lin Y**. Characterization of deep podzolized carbon with infrared spectroscopy. Poster presentation, 2022 ASA, CSSA, SSSA International Annual Meeting.

Celestin F^G, Mylavarapu RS, and **Lin Y**. Assessing soil health indicators across various cropping systems in Florida. Oral presentation, 2022 ASA, CSSA, SSSA International Annual Meeting.

Mahmood S^G, Kane DA, Nunes MR, and **Lin Y**. Healthy soil stabilizes US corn yield under drought. Oral presentation, 2022 ASA, CSSA, SSSA International Annual Meeting.

Colopietro DJ^g, Bacon AR, Gonzales Y^g, **Lin Y**, and Mahmood S^G. Aggregate stability gradient under low-severity burning in the Florida flatwood ecosystems. Oral presentation, 2022 ASA, CSSA, SSSA International Annual Meeting.

Manirakiza N^G, **Lin Y**, Amgain NR, Rabbany A, Trotta M, and Bhadha J. Estimation of carbon sequestration potential and soil enzymatic activity of regenerative farming practices within the Everglades Agricultural Area (EAA), Florida. Oral presentation, 2022 ASA, CSSA, SSSA International Annual Meeting.

Champiny RE^G, Bacon A, and **Lin Y**. Deep podzolized carbon: stabilization mechanisms for carbon accumulation in sandy soils. Poster presentation, 2022 Ecological Society of America and Canadian Society for Ecology & Evolution Joint meeting.

Lin Y. Improving soil health scoring functions. Oral presentation, 2021 American Geophysical Union Annual Fall Meeting.

Nyabami P^G, Maltais-Landry G, and **Lin Y**. Cover crops: How does mixing legume and grass cover crops influence nitrogen release in subtropical sandy soils? Poster presentation, 2021 Soil Science Society of America Annual meeting.

Lin Y, Gross A, and Silver WS. Redox regulated potential phosphorus limitation on soil biogeochemical cycling along a tropical rainfall gradient. Poster presentation, 2020 American Geophysical Union Annual Fall Meeting.

Lin Y, Gross A, O'Connell CS, and Silver WS. Humid tropical forest soils retained high phosphorus sorption under anoxic conditions. Oral presentation, 2019 American Geophysical Union Annual Fall Meeting.

Lin Y, Slessarev EW, Yehl S, D'Antonio CM, and King JY. Long-term nutrient fertilization increased soil carbon storage in California grasslands. Oral presentation, 2019 International Soils Meeting.

Lin Y, Gross A, and Silver WS. Coupling of soil carbon, organic phosphorus, and amorphous minerals along wet tropical forest rainfall gradient. Oral presentation, 2018 American Geophysical Union Annual Fall Meeting.

Lin Y, Gross A, and Silver WS. Redox regulates soil phosphorus status across a rainfall gradient in wet tropical forests. Oral presentation, 2018 Ecological Society of America Annual Meeting.

Lin Y, Gross A, and Silver WS. Microbial C:P stoichiometry is shaped by redox conditions along an elevation gradient in humid tropical rainforests. Poster presentation, 2017 American Geophysical Union Annual Fall Meeting.

- King JY, **Lin Y**, Karlen SD, and Ralph J. Short-term dynamics of photopriming increase litter carbon loss during decomposition. Poster presentation, 2017 American Geophysical Union Annual Fall Meeting.
- Lin Y**, Bhattacharyya A, Campbell AN, Nico PS, Pett-Ridge J, and Silver WS. Soil phosphorus redistribution among iron-bearing minerals under redox fluctuation. Oral presentation, 2016 American Geophysical Union Annual Fall Meeting.
- Lin Y**, Campbell AN, Bhattacharyya A, Nico PS, Silver WS, and Pett-Ridge J. Redox fluctuation differentially affected decomposition of litter and soil organic matter. Poster presentation, 2016 Luquillo CZO meeting, Rio Mar, PR.
- Lin Y**, Campbell AN, Bhattacharyya A, Nico PS, Silver WS, and Pett-Ridge J. Redox-induced variations in phosphorus fractions in a humid tropical forest soil. Poster presentation, 2016 INTERFACE phosphorus workshop, Townsend, TN.