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Education

University of Florida, Gainesville, FL. Agronomy, Ph.D. 2013.
Beijing Forestry University, Beijing, China. Turfgrass Science, M.S. 2009.
Northwest A&F University, Yangling, Shaanxi, China. Rangeland Science, B.S. 2006.

Experience

Assistant Professor of Cropping System Agronomy (70% Research and 30% Extension), University of Idaho, Department of Plant, Soil and Entomological Sciences. September 2014 – present.
Postdoctoral Research Associate. University of Georgia, Department of Crop and Soil Sciences. February – August 2014.
Research Assistant (Ph.D.). University of Florida, Agronomy Department. August 2010 – December 2013.
Research Assistant (M.S.). Beijing Forestry University, Department of Turfgrass Science. September 2006 – June 2009.

Publications

- Dari, B., C.W. Rogers, **X. Liang**. Irrigated malt barley response to phosphorus and sulfur applications in an alkaline soil. *Journal of Plant Nutrition* (In Review)
- Torrion, J.A., O.S. Walsh, **X. Liang**, B.B. Vietez de Almeda, A. Sapkota. Managing high protein spring wheat cultivar 'Egan'. *Agronomy Journal* (In Review).
- Jiang, W., M. Jacobson, A. Kemanian, M. Langholtz, F. Montes, **X. Liang**, J. Jin. A case study defining economically marginal land for energy crop production. *BioEnergy Research* (In Review).
- Liang, X.**, M. Rashidi, C.W. Rogers, J.M. Marshall, A. Rashed. 2019. Winter wheat (*Triticum aestivum* L.) response to Barley yellow dwarf virus at different nitrogen application rates in the presence and absence of its aphid vector, *Rhopalosiphum padi* L. (Hemiptera: Aphididae). *Entomologia Experimentalis et Applicata* (In Press)
- Yang, R., **X. Liang**, J.A. Torrion, O. Walsh, K. O'Brien K, Q. Liu. 2018. The influence of water and nitrogen availability on the expression of end-use quality parameters of spring wheat. *Agronomy* 8:257. (Invited research article)
- Zhao, Z., S. Prager, K. Cruzado, **X. Liang**, W.R. Cooper, G. Hu, A. Rashed. 2018. Characterizing zebra chip symptom severity and identifying spectral signatures associated with 'Candidatus Liberibacter solanacearum'-infected potato tubers. *American Journal of Potato Research* 95:584-596.
- Liang, X.**, J.E. Erickson, L.E. Sollenberger, D.L. Rowland, M.L. Silveira, W. Vermerris. 2018. Physiological responses of elephantgrass and energycane to soil drying. *Crop Science* 58:354-363.
- Liang, X.**, Y. Liu, J. Chen, C. Adams. 2017. Late-season photosynthetic rate and senescence were associated with grain yield in winter wheat of diverse origins. *Journal of Agronomy and Crop Science* 204:1-12.
- Liang, X.**, D. Strawn, J. Chen, J.M. Marshall. 2017. Variation in cadmium accumulation in spring wheat cultivars: uptake and redistribution to grain. *Plant and Soil* 421:219-231.
- Liu, Y., **X. Liang**, F. Zhou, Z. Zhang. 2017. Accessing the agronomic and photosynthesis-related traits of high-yielding winter wheat mutants induced by ultra-high pressure. *Field Crops Research* 213:165-173.
- Liu, Y., B.C. Bowman, Y. Hu, **X. Liang**, W. Zhao, J. Wheeler, N. Klassen, H. Bockelman, J.M. Bonman, J. Chen. 2017. Evaluation of agronomic traits and drought tolerance of winter wheat accessions from the National Small Grain Collection. *Agronomy* 7:51.
- Liang, X.**, D. Su, Z. Wang, X. Qiao. 2017. Effects of turf thatch on rainfall interception, runoff, and soil evaporation. *Journal of Water Resource and Protection* 9:799-810.
- Liang, X.**, J.E. Erickson, W. Vermerris, D.L. Rowland, L.E. Sollenberger, M.L. Silveira. 2016. Root architecture of sorghum genotypes differing in root angles under different water regimes. *Journal of Crop Improvement* 31:39-55.
- Liang, X.**, V. Liakos, O. Wendroth, G. Vellidis. 2016. Scheduling irrigation using an approach based on the van Genuchten

Model for Irrigation Scheduling. *Agricultural Water Management* 176:170-179.

Liang, X., J.E. Erickson, M.L. Silveira, L.E. Sollenberger, D.L. Rowland. 2015. Tissue chemistry and morphology affect root decomposition of perennial bioenergy grasses on a sandy soil in a sub-tropical environment. *Global Change Biology Bioenergy* 8:1015-1024.

Liang, X., D. Su, S. Yin, Z. Wang. 2009. Leaf water absorption and desorption functions for three turfgrasses. *Journal of Hydrology* 376:243-248.

Liang, X., D. Su, Y. Yang. 2008. Effect of irrigation on biomass of cool-season turfgrass mixtures. *Acta Agrestia Sinica* 16(01):60-64.

Teaching and Mentoring

Teaching:

Plant Physiology, PLSC401, Department of Plant Sciences, University of Idaho, (guest lecturer: Abiotic and Biotic Stresses), spring 2018

Seminar, PLSC400, Department of Plant Sciences, University of Idaho, (guest lecturer: Crop Responses to Abiotic and Biotic Factors), fall 2017

Advising and Mentoring:

Graduate Students:

Jingya Yang, M.S. (major advisor), Department of Plant Sciences, anticipated graduation in August 2020

Travis Chase, M.S. (advisory committee), Department of Plant Sciences, anticipated graduation in May 2019

Atoosa Nikoukar, M.S. (advisory committee), Department of Entomology, Plant Pathology and Nematology, anticipated graduation in August 2019

Postdoctoral Research Associates:

Dr. Rui Yang, May 2017 – present

Dr. Hossein Sadeghi, April – September 2016

Synergistic Activities

Professional and Scholarly Memberships

American Society of Agronomy (ASA)

Crop Science Society of America (CSSA)

Soil Science Society of America (SSSA)

Potato Association of America (PAA)

Gamma Sigma Delta, The Honor Society of Agriculture

Professional Society Service

Reviewing editor of *Journal of Crop Improvement* (since 2017)

Scientific Reviewer: *Agriculture, Agronomy, Agronomy Journal, Crop Science, Global Change Biology Bioenergy, Horticulturae, Journal of Agronomy and Crop Science, Journal of Plant Registration, PLoS ONE, Soil Science Society of America Journal, Soil & Tillage Research, and South African Journal of Plant and Soil*

Judge for the SASES Research Symposium Contest at ASA-CSSA Annual Meetings. Baltimore, MD, November 4-7 2018.

Judge for Graduate Student Oral Competition in the section of Crop Physiology and Metabolism (C02) at ASA-CSSA-SSSA Annual Meetings. Phoenix, AZ, November 6-9 2016.

Judge for graduate student competition at Beltwide Cotton Conferences, San Antonio, TX, January 5-7 2015.