YIWEI JIANG
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Educational Background

B.S. 1989 Horticulture. Inner Mongolia Agricultural University, China
M.S. 1992 Agronomy. Shenyang Agricultural University, China
Ph.D. 2001 Horticulture. Kansas State University, USA

Professional Positions Held

2016-present Professor, Department of Agronomy, Purdue University, West Lafayette, IN
2011-2015 Associate Professor, Department of Agronomy, Purdue University, West Lafayette, IN
2005-2011 Assistant Professor, Department of Agronomy, Purdue University, West Lafayette, IN
2001-2004 Postdoctoral Research Associate, Department of Crop and Soil Sciences, The University of Georgia, Griffin, GA.
1998-2001 Graduate Research Assistant, Department of Horticulture, Forestry and Recreational Resources, Kansas State University, Manhattan, KS
1992-1997 Research Associate, Beijing Vegetable Research Center, Beijing, China
1989-1992 Graduate Research Assistant. Department of Basic Science, Shenyang Agricultural University, Shenyang, China

Honors and Awards

2018 Tengtou Agricultural Science Award. American Society of Agronomy, USA
2014-2017 Guest Professor, Inner Mongolia Agricultural University, China
2014-2017 Guest Professor, Lanzhou University, China
2014-2017 Adjunct Research Professor, Tianjin Agricultural University, China
2013-2015 Adjunct Research Professor, Shanxi Agricultural University, China
2012 Agricultural Research Spotlight, Purdue University. 2012
1999 Outstanding Graduate Paper Award, 2nd Place Poster. C-5 division, Crop Science Society of America, Salt Lake City, UT.

Memberships in Academic, Professional, and Scholarly Societies

American Society of Horticultural Science
Crop Science Society of America

Published Work

Refereed Journal Articles (*denotes corresponding author)

1. Zhao, X., G. Nie, Y.Yao, Z. Ji., J. Gao, X. Wang, and **Y. Jiang*.** 2020. Natural variation and genomic prediction on growth, physiological traits and nitrogen use efficiency of perennial ryegrass under low nitrogen stress. J. Exp. Bot. 71:6670–6683.

2. Wang, X., M. Li, A.H. Jannasch, and **Y Jiang*.** 2020. Submergence stress alters fructan and hormone metabolism and gene expression in perennial ryegrass with contrasting growth habits. Env. Exp. Bot. 179:104202.
3. Li, M., A.H. Jannasch, and **Y Jiang*.** 2020. Growth and hormone alterations in response to heat stress in perennial ryegrass accessions differing in heat tolerance. J. Plant Growth Regul. 39:1022–1029.
4. Gan L., L. Han, S. Yin, and **Y. Jiang*** . 2020. Chlorophyll metabolism and gene expression in response to submergence stress and subsequent recovery in perennial ryegrass accessions differing in growth habits. J. Plant Physiol. 251: 153195
5. Luo, F., Z. Pei, H. Liu, **Y. Jiang*,** and S. Sun*. 2020. Genome-wide association study for architecture and bioenergy traits in diverse sorghum and sudangrass germplasm. Agronomy. 10, 1602.
6. Taylor, T., X. Zhao, M.D. Casler, and **Y. Jiang*.** 2020. Transcriptome profiling reveals differentially expressed genes associated with flowering time in contrasting switchgrass genotypes. Crop Sci. 60: 1472-1487.
7. Xu, C., Z. Xia, Z. Huang, C. Xia, J. Huang, M. Zha, S. Wang, M. Imran, S. Casteel, **Y. Jiang** and C. Zhang. 2020. Understanding the physiological and transcriptional mechanism of reproductive stage soybean in response to heat stress. Crop Breed Genet Genom. 2:e200004.
8. Powlen, J., C. Bigelow, A. Patton, **Y. Jiang**, and M.L. Fraser. 2020. Minimal irrigation requirement of Kentucky bluegrass and tall fescue blends in the northern transition zone. Crop Sci. (In press. https://doi.org/10.1002/csc2.20340).
9. Gao J., H. Qian, X. Guo, Y. Mi, J. Zhao, C. Xu, T. Zheng, M. Duan, Z. Tang, C. Lin, Z. Shen, **Y. Jiang**, and X. Wang. 2020. The signal peptide of Cry1Ia can improve the fluorescent intensity of eGFP and mCherry in *Escherichia coli* and *Bacillus thuringiensis* and enhance the host's fluorescent intensity. Microbial Cell Factories 19: 112.
10. Ji, Z., J.J. Camberato, C. Zhang, and **Y. Jiang*.** 2019. Effects of 6-benzyladenine, γ-aminobutyric acid, and nitric oxide on plant growth, photochemical efficiency, and ion accumulation of perennial ryegrass cultivars to salinity stress. HortScience 54: 1418-1422.
11. Taylor, T., C-E. Tornqvist, X. Zhao, R.W. Doerge, M.D. Casler, and **Y. Jiang*.** 2019. Identification of quantitative trait loci for plant height, crown diameter, and plant biomass in a pseudo-F_2 population of switchgrass. BioEnergy Res. 12:267–274.
12. Guo, H., Y. Wang, B. Zhang, D. Lia, J. Chena, J. Zong, J. Lia, J. Liu, and **Y. Jiang*.** 2019. Association of candidate genes with drought tolerance traits in zoysiagrass germplasm. J. Plant Physiol. 237:61–71.
13. Yao, Y., C. Zhang, J.J. Camberato, and **Y. Jiang*.** 2019. Nitrogen and carbon contents, nitrogen use efficiency, and antioxidant responses of perennial ryegrass accessions to nitrogen deficiency. J. Plant Nutr. 42: 2092-2101.
14. Cao Y, X., Zhao, Y. Liu, Y. Wang, W. Wu, **Y. Jiang**, C. Liao, X. Xu, S. Gao, Y. Shen, H. Lan, C. Zou, G. Pan, and H. Lin. 2019. Genome-wide identification of *ZmHMAs* and association of natural variation in *ZmHMA2* and *ZmHMA3* with leaf cadmium accumulation in maize. PeerJ 7:e7877.
15. Taylor, M., C-E. Tornqvist, X. Zhao, P. Grabowski, R. Doerge, J. Ma, J. Volenec, J. Evans, G. P. Ramstein, M.D. Sanciangco, C. R. Buell, M.D. Casler, and **Y. Jiang*.** 2018. Genome-wide association study in pseudo-F_2 populations of switchgrass identifies genetic loci affecting heading and anthesis dates. Front. Plant Sci. 9: 1250.

16. Liu, M., X. Song, and **Y. Jiang*.** 2018. Growth, ionic response and gene expression of shoots and roots of perennial ryegrass under salinity stress. Acta. Physiol. Plant. 40: 112.
17. Tornqvist, C-E., M. Taylor, **Y. Jiang**, J. Evans, C. R. Buell, S. M. Kaeppler, and M.D. Casler. 2018. Quantitative trait locus mapping for flowering time in a lowland x upland switchgrass pseudo-F2 population. The Plant Genome 11: 1700932.
18. Xu, C., C. Xia, Z. Xia, X. Zhou, J. Huang, Z. Huang, Y. Liu, **Y. Jiang**, S. Casteel, and C. Zhang. 2018. Physiological and transcriptomic responses of reproductive stage soybean to drought stress. Plant Cell Rep. https://doi.org/10.1007/s00299-018-2332-3
19. Zhao, X., L. Luo, Y. Cao, Y. Liu, Y. Li, W. Wu, Y. Lan, **Y. Jiang,** S. Gao, Z. Zhang, Y. Shen, G. Pan, and H. Lin. 2018. Genome-wide association analysis and QTL mapping reveal the genetic control of cadmium accumulation in maize leaf. BMC Genomics. 19: 91.
20. Harre, N.T., H. Nie, **Y. Jiang,** and B.G. Young. 2018. Differential antioxidant enzyme activity in rapid response glyphosate-resistant *Ambrosia trifida*. Pest Manage. Sci. 74: 2125-2132.
21. Song, X., S-M. Wang, and **Y. Jiang***. 2017. Genotypic variations in plant growth and nutritional elements of perennial ryegrass accessions under salinity stress. J. Amer. Soc. Horti. Sci. 142: 476-483.
22. **Jiang*, Y**., X. Wang, X. Yu, X. Zhao, N. Luo, Z. Pei, H. Liu, and D. F. Garvin. 2017. Quantitative traits loci associated with drought tolerance in *Brachypodium distachyon*. Front. Plant Sci. 8: 811.
23. Wang, X., **Y. Jiang*,** X. Zhao, X. Song, X. Xiao, Z. Pei, and H. Liu. 2017. Association of candidate genes with submergence response in perennial ryegrass. Front. Plant Sci. 8: 791.
24. Grabowski, P, J. Evans, C. Daum, S. Deshpande, K. Barry, M. Kennedy, G. Ramstein, S. Kaeppler, R. Buell, **Y. Jiang**, and M. Casler. 2017. Genome-wide associations with flowering time in switchgrass using exome-capture sequencing data. New Phytol. 213: 154–169.
25. Yin, X., C. Zhang, X. Song, and **Y. Jiang***. 2017. Interactive short-term effects of waterlogging and salinity stress on growth and carbohydrate, lipid peroxidation and nutrients in two perennial ryegrass cultivars. J. Amer. Soc. Horti. Sci. 42: 110–118.
26. Law, Q.D., J. M. Trappe, **Y. Jiang**, R. F. Turco, and A.J. Patton. 2017. Turfgrass selection and grass clippings management influence soil carbon and nitrogen dynamics. Agron. J. 109: 1719–1725.
27. Luo, N., X. Yu, N. Gang, J. Liu, and **Y. Jiang***. 2016. The specific peroxidase differentiates *Brachypodium distachyon* accessions and associates with drought tolerance traits. Ann. Bot. 118: 259–270.
28. **Jiang*, Y**., Y. Li, G. Nie, and H. Liu. 2016. Leaf and root growth, carbon and nitrogen contents, and gene expression of perennial ryegrass to different nitrogen supplies. J. Amer. Soc. Horti. Sci. 141: 555–562.
29. **Jiang*, Y**., Y. Cui, Z. Pei, H. Liu, and S. Sun. 2016. Growth response and gene expression to deficit irrigation and recovery of two perennial ryegrass accessions contrasting in drought tolerance. HortScience 51: 921–926.
30. Nie, G., L. Huang, X. Zhang, M. Taylor, **Y. Jiang**, X. Yu, X. Liu, X. Wang and Y. Zhang. 2016. Marker-trait association for biomass yield of potential bio-fuel feedstock *Miscanthus sinensis* from Southwest China. Front. Plant Sci. 7: 802.

31. Liu, Qiang and **Y. Jiang***. 2016. Exogenous application of nitrogen and cytokinin on growth, carbohydrate, and antioxidant metabolism of creeping bentgrass after de-submergence. HortScience 51: 1602–1606.
32. Yu, X., P.M. Pijut, S. Byrne, T. Asp, G. Bai, and **Y. Jiang***. 2015. Candidate gene based association mapping of winter survival and spring regrowth in perennial ryegrass. Plant Sci. 235: 37-45.
33. Liu, M. and **Y. Jiang***. 2015. Genotypic variation in growth and metabolic responses of perennial ryegrass exposed to short-term waterlogging and submergence stress. Plant Physiol. Biochem. 95: 57-64.
34. Zong, J., Y. Gao, J. Chen, H. Guo, Y. Wang, F. Meng, **Y. Jiang***, and J. Liu. 2015. Growth and enzymatic activity of four warm-season turfgrass species exposed to waterlogging. J. Amer. Soc. Hortic. Sci. 140: 151-162.
35. Cui, Y., J. Wang, X. Wang, and **Y. Jiang***. 2015. Phenotypic and genotypic diversity for drought tolerance among and within perennial ryegrass accessions. HortScience 50: 1148–1154.
36. Huang, B., M. DaCosta, and **Y. Jiang***. 2014. Research advances in mechanisms of turfgrass tolerance to abiotic stresses: from physiology to molecular biology. Crit. Rev. Plant Sci. 33: 141–189.
37. Wang X., Z. Yang, M. Wang, L. Meng, **Y. Jiang**, and Y. Han. 2014. The BRANCHING ENZYME1 gene, encoding a glycoside hydrolase family 13 protein, is required for in vitro plant regeneration in *Arabidopsis*. Plant Cell Tiss. Organ Cult. 117: 279-291.
38. Tang, J., X. Yu, N. Luo, F. Xiao, J.J. Camberato, and **Y. Jiang***. 2013. Natural variation of salinity response, population structure and candidate genes associated with salinity tolerance in perennial ryegrass accessions. Plant Cell Environ. 36: 2021-2033.
39. Yu X., G. Bai, S. Liu, N. Luo, Y. Wang, D.S. Richmond, P.M. Pijut, S.A. Jackson, J. Yu, and **Y. Jiang***. 2013. Association of candidate genes with drought tolerance traits in diverse perennial ryegrass accessions. J. Exp. Bot. 64: 1537-1551.
40. Tang, J., J.J. Camberato, X. Yu, N. Luo, and **Y. Jiang***. 2013. Growth response, carbohydrate and ion accumulation of diverse perennial ryegrass accessions to increasing salinity. Sci. Hortic. 154: 73-81.
41. Wang, K. and **Y. Jiang***. 2013. The effects of short-term excessive irrigation on growth and physiology of creeping bentgrass on sand and soil greens. Intl. Turf Soc. Res. J. 12: 517-522.
42. Luo, N., X. Yu, J. Liu, and **Y. Jiang***. 2012. Nucleotide diversity and linkage disequilibrium in antioxidant genes of *Brachypodium distachyon*. Plant Sci. 197: 122-129.
43. **Jiang*, Y**., Y. Yao, and Y. Wang. 2012. Physiological response, cell wall components, and gene expression of switchgrass under short-term drought stress and recovery. Crop Sci. 52: 2718–2727.
44. Yu, X., N. Luo, J. Yan, J. Tang, S. Liu, and **Y. Jiang***. 2012. Differential growth response and carbohydrate metabolism of global collection of perennial ryegrass accessions to submergence and recovery following de-submergence. J. Plant Physiol. 169: 1040-1049.
45. Rutledge, J., J.J. Volenec, **Y. Jiang**, and Z.J. Reicher. 2012. Physiological changes in roughstalk bluegrass exposed to high temperature. Crop Sci. 52: 869-878.
46. Yu, X., G. Bai, N. Luo, Z. Chen, S. Liu, J. Liu, S. Warnke, and **Y. Jiang***. 2011. Association of simple sequence repeat (SSR) markers with submergence tolerance in diverse populations of perennial ryegrass. Plant Sci. 180: 391-398.

47. Luo, N., J. Liu, X. Yu, and **Y. Jiang***. 2011. Natural variation in drought response of *Brachypodium distachyon*. Physiol. Plant. 141: 19-29.
48. **Jiang*, Y**., E. Watkins, S. Liu, X. Yu, and N. Luo. 2010. Antioxidative responses and expression of candidate genes in prairie junegrass under drought stress. J. Am. Soc. Hortic. Sci. 135: 303-309.
49. Liu, S. and **Y. Jiang***. 2010. Identification of differentially expressed genes in perennial ryegrass under drought stress. Physiol. Plant. 139: 375-387.
50. Wang, Y., C.A. Bigelow, and **Y. Jiang***. 2009. Ploidy level and DNA content of perennial ryegrass germplasm as determined by flow cytometry. HortScience 44: 2049-2052.
51. Bian, S. and **Y. Jiang***. 2009. Reactive oxygen species, antioxidant enzyme activities, and gene expression patterns in leaves and roots of Kentucky bluegrass in response to drought stress and recovery. Sci. Hortic. 120: 264-270.
52. **Jiang*, Y**., H. Liu, and V. Cline. 2009. Correlations of leaf relative water content, canopy temperature, and spectral reflectance in perennial ryegrass under water deficit conditions. HortScience 44: 459-462.
53. Wang, K., S. Bian, and **Y. Jiang*.** 2009. Anaerobic metabolism of roots in Kentucky bluegrass in response to short-term waterlogging alone and in combination with high temperatures. Plant and Soil 314: 221-229.
54. Wang, K. and **Y. Jiang***. 2007. Waterlogging tolerance of Kentucky bluegrass cultivars. HortScience 43: 386-390.
55. Wang, K. and **Y. Jiang***. 2007. Antioxidant responses of creeping bentgrass roots to waterlogging. Crop Sci. 47: 232-238.
56. **Jiang*, Y.** and K. Wang. 2006. Growth, physiological and anatomical responses of creeping bentgrass cultivars to different depths of waterlogging. Crop Sci. 46: 2420- 2426.
57. **Jiang, Y.** and R.N. Carrow. 2005. Assessment of canopy narrow-band spectral reflectance and turfgrass performance under drought stress. HortScience 40: 242-245.
58. **Jiang, Y.**, R.N. Carrow, and R.R. Duncan. 2005. Physiological acclimation of seashore paspalum and bermudagrass to low light. Sci. Hortic. 105: 101-115.
59. **Jiang, Y.** and R.N. Carrow. 2007. Broadband spectral reflectance models of turfgrass species and cultivars to drought stress. Crop Sci. 47: 1611-1618.
60. **Jiang, Y.**, R.R. Duncan, and R.N. Carrow. 2004. Assessment of low light tolerance of seashore paspalum and bermudagrass. Crop Sci. 44: 587-595.
61. **Jiang, Y.**, R.N. Carrow, and R.R. Duncan. 2003. Effects of morning and afternoon shade in combination with traffic stress on seashore paspalum. HortScience 38: 1218-1222.
62. **Jiang, Y.**, R.N. Carrow, and R.R. Duncan. 2003. Correlation analysis procedures for canopy spectral reflectance data of seashore paspalum under traffic stress. J. Am. Soc. Hortic. Sci. 128: 343-348.
63. **Jiang, Y.** and B. Huang. 2002. Protein alterations in tall fescue in response to water stress and abscisic acid. Crop Sci. 42: 202-208.
64. **Jiang, Y.** and B. Huang. 2001. Effects of calcium on physiological responses of tall fescue and Kentucky bluegrass to drought stress. Intl. Turf Soc. Res. J. 9: 297-302.
65. **Jiang, Y.** and B. Huang. 2001. Responses of photosynthesis and water relations to heat stress alone or in combination with drought: A comparison of tall fescue and perennial ryegrass. HortScience 36: 682-686.
66. **Jiang, Y.** and B. Huang. 2001. Drought and heat stress injury to two cool-season turfgrasses in relation to antioxidant metabolisms and lipid peroxidation. Crop Sci. 41: 436-442.

67. **Jiang, Y**. and B. Huang. 2001. Osmotic adjustment and root growth associated with drought-preconditioning enhanced heat tolerance in Kentucky bluegrass. Crop Sci. 41: 1168-1173.
68. **Jiang, Y.** and B**.** Huang. 2001. Effects of calcium on antioxidant metabolism and water relations associated with heat tolerance in two cool-season grasses. J. Exp. Bot. 52: 341-349.
69. **Jiang, Y.** and B. Huang. 2000. Effects of drought or heat stress alone and in combination on Kentucky bluegrass. Crop Sci. 40: 1358-1362.

Book Chapters

1. Kopp, K.L. and **Y. Jiang**. 2013. Turfgrass water use. In: J. Stier, S. Bonos and B. Horgan (eds.) Turfgrass: Biology, Use, and Management, Turfgrass Monograph 56. Crop Science Society of America, Inc. Madison, WI. pp. 319-346.
2. **Jiang, Y.** and Y. Wang. 2010. Candidate gene expression involved in plant drought resistance. In: M. Pessarakli (ed.) Handbook of Plant & Crop Stress. CRC Press. Taylor and Francis Publisher. Boca Raton, FL. pp. 867-876.
3. **Jiang, Y.** 2007. Identification of turfgrass stress utilizing spectral reflectance. In: M. Pessarakli (ed.) Handbook of Turfgrass Management and Physiology. CRC Press. Taylor and Francis Publisher. Boca Raton, FL. pp. 547-556.
4. **Jiang, Y.** 2007. Responses of turfgrass to low oxygen stress. In: M. Pessarakli (ed.) Handbook of Turfgrass Management and Physiology. CRC Press. Taylor and Francis Publisher. Boca Raton, FL. pp. 531-545.
5. Huang, B. and **Y. Jiang**. 2001. Physiological and biochemical responses of plants to drought and heat stress. In: M. Kang (ed.) Crop Improvement in the 21st Century. The Haworth Press, Inc. Binghamton, NY. pp. 279-306.

Refereed Proceedings

1. Grabowski P., M. Taylor, C-E. Tornqvist, M.D. Casler, and **Y. Jiang**. 2016. Genetic control of flowering and biomass in switchgrass. Proceedings of the 9th International Symposium on Molecular Breeding of Forage and Turf. pp. 26. MBFT2016, Lanzhou, China.
2. **Jiang, Y**. 2015. Association mapping of abiotic stress tolerance in turfgrass: research opportunities and challenges. Proceedings of the 24th Annual Rutgers Turfgrass Symposium. pp. 18. New Brunswick, NJ, USA.
3. **Jiang, Y**. and X. Yu. 2013. Candidate gene association mapping of cold hardiness in perennial ryegrass. Proceedings of the 7th International Symposium on Molecular Breeding of Forage and Turf. pp. 42-45. MBFT2012, Salt Lake City, UT, USA.
4. Yu, X. and **Y. Jiang**. 2013. Improving association analysis of stress tolerance traits by model testing and selection in perennial ryegrass. Proceedings of the 7th International Symposium on Molecular Breeding of Forage and Turf. pp 86. MBFT2012, Salt Lake City, UT, USA.

Invited Presentations

Approximately 65 invitations at regional, national and international conferences/symposiums and academic institutions.

Professional Contributions to Teaching

Primary Course Taught

AGRY514, *Environmental Stress Management for Turfgrass* (1 credit). Department of Agronomy, Purdue University. 2006-current.

AGRY624, *Plant Ecophysiology* (3 credits). Department of Agronomy, Purdue University. 2007-current.

Shared Course Taught

ARGY696, *Graduate Research Seminar* (1 credit), Department of Agronomy, Purdue University. 2006, 2013, 2016.

Guest Lectures

AGRY110, *Survey of Turfgrass Culture* (Instructor: Dr. Cale Bigelow). Department of Agronomy, Purdue University. 2005-2008, 2010, 2012, 2013.

HORT590S, *Plant Environmental Stress Physiology* (Instructor: Dr. David Rhodes). Department of Horticulture and Landscape Architecture, Purdue University. 2005.

Advising Undergraduate Students

Serving or has served as the academic advisor for 32 Turfgrass Science and Crop Science majors

Thesis/Dissertation Advisor, Postdoctoral and Visiting Scholar Sponsor, and Undergraduate Training

Mentored Graduate Students as Major Advisor

MSc.: Yankai Wang, (Agronomy, 2020), Yanyu Yao (Agronomy, 2018), Zhongjie Ji (Agronomy, 2018), Ying Wang (Agronomy, 2009), Kehua Wang (Agronomy, 2007)

Ph.D.: Megan Taylor (Agronomy, 2018), Xiaoqing Yu (Agronomy, 2013)

Graduate Student Awards (excluding travel awards):

Megan Taylor, Gerald O. Mott Award, 2018. Crop Science Society of America

Megan Taylor, Outstanding Graduate Teaching Assistant, College of Agriculture, Purdue University. 2018.

Xiaoqing Yu, Outstanding Ph.D. Research Award, Department of Agronomy, Purdue University. 2012.

Xiaoqing Yu, Outstanding Graduate Paper Award, 2nd Place Poster, C-5 section, Crop Science Society of America, Long Beach, CA. 2010.

Ying Wang, Outstanding Graduate Paper Award, 3rd Place Poster, C-5 section, Crop Science Society of America, Houston, TX. 2008.

Kehua Wang, Outstanding M.S. Research Award, Department of Agronomy, Purdue University. 2007.

Graduate Advisory Committee

MSc.: Lilian Ayala (Forestry, 2020), Jada Powlen (Horticulture, 2019), Congshan Xu (Agronomy, 2018), Zhikai Yang (Agronomy, 2018), Xiaochen Xu (Agronomy, 2015), Ghazaleh Mokhtarian (Botany, 2015), Quincy Law (Agronomy, 2014), Xing Liu (Agronomy, 2013), Yang Liu (Plant Pathology, 2012), Autumn Nance (Entomology, 2011), Ariana Torres (Horticulture, 2010), Deborah Morton (Agronomy, 2008)

Ph.D.: Aziz Ebrahimi (Forestry, in process), Swarup Mishra (Agronomy), Seunghyun Choi (Horticulture, in process), Fatemeh Sheibani (Horticulture, in process), Xiaochen Xu (Agronomy, 2019), Ryan Gibson (Agronomy, 2018), Joshua Craver (Horticulture, 2018), Garrett Owen (Horticulture, 2017), Jon Trappe (Agronomy, 2015), Celina Gomez (Horticulture, 2014), Chris Currey (Horticulture, 2013), Yanbin Xia (Agronomy, 2012), James Rutledge (Agronomy, 2010), Dylan Kosma (Horticulture, 2009), Kristina Walker (Agronomy, 2008), Jason DeKoff (Agronomy, 2008)

Postdoctoral Researchers

Zijian Sun (2014), Shuwei Liu (2009-2010), Shaomin Bian (2007-2008)

Visiting Students and Scholars

Jia Tang (2018-2019), Mengxin Xu (2018-2019), Yunfei Gao (2018-2019), Jin-Lin Zhang (2016-2018), Mingxi Liu (2017-2018), Wei Liu (2017-2018), Baoping Zhao (2017-2018), Lu Gan (2017-2018), Xiongwei Zhao (2016-2018), Lu Pan (2016-2017), Yaoshen Li (2016), Xin Song (2015-2017), Xicheng Wang (2016-2017), Manli Li (2016), Xiujie Yin (2015-2016), Qiang Liu (2015-2016), Gang Nie (2014-2016), Yu Cui (2013-2014), Mingxi Liu (2014), Jinchi Tang (2010-2011), Na Luo (2009-2011), Huifen Liu (2008-2009)

Undergraduate Research Training

Shujun Yao (2017), Frederick Beck (2011), Matt Sliepka (2010), Jiapei Yan (2009), Kuangyi Zhao (2008-2009), Nick Gressley (2005), Nick Baker (2005)

National and International Recognition

Editorial Boards of Scientific Journals

2014-2019	Associate Editor, *Crop Science*, Crop Science Society of America
2017-2018	Topic Editor, *Frontiers in Plant Science*
2013	Associate editor, *International Turfgrass Research Journal*, International Turfgrass Society

Ad hoc Reviews for Scientific Journals

Acta Physiologiae Plantarum, Agronomy Journal, Bioenergy Research, BMC Genomics, Canadian Journal of Plant Science, Crop Forage and Turfgrass Management, Crop and Pasture Science, Crop Science, Environmental and Experimental Botany, Frontiers in Plant Science, Global Change Biology, Grass and Forage Science, Grassland Science, Hereditas, HortScience, HortTechnology, Journal of Agronomy and Crop Science, Journal of American Society of Horticultural Sciences, Journal of Plant Physiology, Molecular Biology Reports, Molecular Genetics and Genomics, New Phytologist, Pakistan Journal of Botany, PeerJ, Plant Biotechnology Journal, Plant Breeding, Plant Cell & Environment, Plant Genetic Resources, Plant Physiology and Biochemistry, Plant and Soil, Plant Signaling & Behavior, PloS One, Theoretical and Applied Genetics

Ad-hoc Reviews for Book Chapters

M. Dacosta and B. Huang. Physiological Adaptation of Perennial Grasses to Drought Stress. In: E. De La Barrera and W. K. Smith (eds.). 2009. Perspectives in Biophysical and Plant Ecophysiology. A Tribute to Park S. Nobel. Creative Commons, San Francisco, CA pp.169-190.

Panelist/*Ad Hoc* Reviewer for National and International Organizations

2014	Panelist	DOE/USDA Feedstock Genomics for Bioenergy, USA
2014, 2015	Ad-hoc	China National Science Foundation (Key program)
2012-2015	Ad-hoc	The Qatar National Research Fund
2012	Ad-hoc	Binational Agricultural Research & Development Fund (BARD)
2011	Ad-hoc	TOP Grants, Netherlands Organization for Scientific Research
2005	Ad-hoc	New Mexico Water Resources Research Institute

Chair/Committee in National and International Conferences

Moderator for Crop Physiology and Metabolism General Oral II. The Annual Meeting of Crop Science Society of America, Tampa, FL, 2017.

Judge for Graduate Student Oral Presentation Competition. C-5 Section. The Annual Meeting of Crop Science Society of America, Tampa, FL. 2013.

Co-Chair for Biotic and abiotic stress resistance section at the 7th International Symposium on Molecular Breeding of Forage and Turf, Salt Lake City, UT. 2012.

Graduate Student Award Committee. Association of Chinese American Scholars in North America. 2012.

Moderator for Turfgrass Breeding and Genetics Section I. The Annual Meeting of Crop Science Society of America, Long Beach, CA. 2010.

Judge for Graduate Student Oral Presentation Competition. C-5 Section. The Annual Meeting of Crop Science Society of America, Salt Lake City, UT. 2005.

Invited Discussion

Turfgrass DNA Research Discussion by the United States Golf Association (USGA) and Turfgrass Producers International (TPI), Far Hills, NJ. 2008. 13 university scientists and 7 industry participants.

Engagement

Departmental Service

2005-present	Graduate Committee
2017-present	Research Scholars, Visiting Scholars, Postdocs Committee
2017-2019	Greenhouse Committee
2016	Building Deputy Search Committee Chair
2005-2014	Turfgrass Field Day Committee
2005-2014	Turfgrass Scholarship Committee
2012, 2013	Crop Physiologist Search Committee
2010	Turf Extension Specialist Search Committee
2005-2015	Hosted 8 Agronomy Seminar or Special Seminar

College and University

2017	College of Agriculture Instructional Equipment Program Proposals Review
2016	Curriculum Student Relation Committee (CSRC)
2013	College of Agriculture Graduate Council
2011-2012	Graduate Council Member at Graduate School
2005, 2008	Judge for Sigma Xi Graduate Student Research Award Competition Poster Session (Life Science)

Professional Contributions in Outreach and Technology Transfer

Dr. Jiang annually participates in major educational events (e.g., Turf and Landscape Field Day, Green Exposition) coordinated by Purdue University Extension leadership that reach out to producers and clients. The total number of attendees at his educational talks has been approximately 1500 since 2005.