Jialu Wei

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Education

August 2017	Ph.D. in Plant Breeding, Iowa State University (ISU), Ames, Iowa, USA
- Present	- GPA: 3.92/4.00 - Minor: Statistics
	- Advisor: Dr. Jianming Yu
August 2013	B.S. in Agronomy, China Agricultural University (CAU), Beijing, China
- June 2017	- GPA: 3.94/4.00, ranking 1/63
	- Academic Exchange Program with National Taiwan University, February - June, 2015

* Research Experience

August	201	7
August	201	,

Graduate Research Assistant, Quantitative Genetics and Maize Breeding Lab, ISU

- Present

- Investigating maize heat stress response mechanisms from cellular, biochemical and wholeplant levels, with a focus on transcriptome analyses
- Conducting phenotypic plasticity analyses on a sorghum association panel through the integration of genomic and environmental profiling
- Contributed to a project of designing sorghum CRISPR/Cas9 targeted mutagenesis system

February 2016

Undergraduate Research Assistant, Key Laboratory of Crop Heterosis and Utilization, CAU

- June 2017

 Performed hydroponic experiments with a cotton RIL population and conducted QTL mappings on salt-resistance related trait

***** Teaching Experience

Spring 2021

Graduate Teaching Assistant, Department of Agronomy, ISU

Introduction to Crop Science: Dr. Mary Wiedenhoeft (106 students)

- Developed communication skills including articulating complex topics to students in an understandable way, and responding to students' impromptu questions
- Guided students on tackling assignments through strategic analyses of questions and implementing knowledge from lectures; graded and provided feedback on assignments

Fall 2016

Teaching Assistant, Department of Agronomy, CAU

Experiments of Trial Design and Biostatistics: Dr. Jinping Hua (50 students)

- Graded homework and exams, followed by in-class reviews to clarify complex topics as reflected by students' answers
- Designed weekly quizzes to reinforce students' comprehension on key concept

Honors & Awards

Febrary 2022	Brown Graduate Fellowship Award
October 2021	Francis and Beatriz (Castro) Mar Graduate Scholarship for professional development
2017 - 2021	Scholarship to support Ph.D. study: Chinese Scholarship Council
April 2020	Bayer Travel Award for professional meetings
March 2020	Second Place in Poster Competition, 7th ISU R.F. Baker Plant Breeding Symposium
September 2019	Peter J. Loesch Jr. Memorial Fund Travel Award for worldwide scientific meetings
2013 - 2017	National Scholarship, Dean Scholarship, Jinlongyu Scholarship, Excellent Student Award, Outstanding Graduate Award

***** Leadership Activities & Professional Contributions

2019 - Present	Department of Agronomy Senator, Graduate and Professional Student Senate, ISU
2019 - 2021	Executive and Editorial Committee Member, Chinese Genomics Online Meet-up
2020	Media Committee Chair, 7th ISU R.F. Baker Plant Breeding Symposium, ISU
2019	Speaker Committee Member, 6th ISU R.F. Baker Plant Breeding Symposium, ISU
2020 - Present	Member of National Association of Plant Breeders (NAPB)
2018 - Present	Member of the American Society of Agronomy, the Crop Science Society of America, and the Soil Science Society of America (ASA-CSSA-SSSA)

❖ Professional Development & Trainings

Aug - Dec, 2021	Preparing Future Faculty Program: Panel discussion series on faculty hiring and promotion process at different institutions; mentor-mentee relationship building; job materials polishing
Nov. 10, 2020	Workshop in 2020 ASA-CSSA-SSSA International Annual Meeting: <i>Phenotypic Plasticity and Genotype by Environment Interaction: Dissection and Prediction (Dr. Jianming Yu group from ISU)</i>
Jun. 9 - 12, 2019	Plant and Animal Breeding Short Course: Genotype to Phenotype Models for Traditional and New Phenotyping Data in Plant Breeding (Dr. Fred van Eeuwijk group from Wageningen University)
Jun. 11 - 13, 2018	The Agricultural Production Systems sIMulator Training Course: Evaluating Production and Environmental Performance of Cropping Systems with APSIM (Dr. Archontoulis group from ISU)
May. 10 - 11, 2018	Plant and Animal Breeding Short Course: Plant and Animal Breeding - Exploiting New Technologies in Different Ways and at Different Scales (Dr. John Hicky group from Roslin Institute)

Publication & Presentations

Publications

Char, S. N., **Wei, J.**, Mu, Q., Li, X., Zhang, Z. J., Yu, J., Yang, B. 2019. An *Agrobacterium*-delivered CRISPR/Cas9 system for targeted mutagenesis in sorghum. Plant Biotechnology J. 18:319-321.

Wei, J., Guo, T., Mu, Q., Alladassi, M., Mural, R., Boyles, R., Hoffmann, L., Salas-Fernandez, M., Hays, C., Thompson, A., Rooney, W., Kresovich, S., Schnable, J., Li, X., Yu. J. 2022. Phenotypic plasticity of flowering time and plant height in the Sorghum Association Panel. (Manuscript in preparation)

Wei, J., McNellie, J., Mu, Q., Chen, J, O'Rourke, J., Graham, M., Clark, N., Walley, J., Li, X., Yu, J. 2022. Insights into maize heat stress response mechanisms through transcriptome analyses. (Manuscript in preparation)

Guo, T., Li, X., Wei, J., Yu, J. 2022. Environment sampling in natural field conditions provides insights into the changing patterns of phenotypic plasticity. (Manuscript in progress)

Mu, Q., Longest, H., Char, S. N., **Wei, J.**, Tibbs-Cortes, L., Yang, B., Li, X., Yu, J. 2022. The cloning and characterization of *qHT7.1* and its homolog in sorghum and maize. (Manuscript in progress)

Presentations

Jan. 9, 2022	Plant & Animal Genome XXIX Conference, CA
	Invited Oral Talk: Investigating Dynamic Heat Stress Responses with Diverse Maize Inbreds: Embrace Complexity to Find Simplicity
Jan. 10, 2022	Plant & Animal Genome XXIX Conference, CA
	Poster: Phenotypic Plasticity Analysis Provides Insights into Sorghum Adaptation
Feb. 18, 2021	Corn Breeding Research Meeting 2021, virtual
	Oral Talk: How does Maize Respond to Heat Stress? An old question with an expanded study scope

Aug. 17 - 20, 2020	National Association of Plant Breeders 2020 Annual Meeting, virtual
	Poster: Advancing Understanding of Maize Heat Stress Response Mechanisms by Integrated Molecular, Biochemical, and Whole-Plant Analysis
Jun. 25-16,	62nd Annual Maize Genetics Conference, virtual
2020	Poster: Advancing Understanding of Maize Heat Stress Response Mechanisms by Integrated Molecular, Biochemical, and Whole-Plant Analysis
Mar. 6, 2020	7th Iowa State University R.F. Baker Plant Breeding Symposium, Ames, IA
	Poster: Advancing Understanding of Maize Heat Stress Response Mechanisms by Integrated Molecular, Biochemical, and Whole-Plant Analysis
Feb. 26, 2020	Iowa State University Plant Breeding Seminar, Ames, IA
	Oral Talk: Insights into maize heat stress response mechanisms through transcriptome analyses
Mar. 27, 2019	Iowa State University Plant Breeding Seminar, Ames, IA
	Oral Talk: Agrobacterium-delivered CRISPR/Cas9 system for targeted mutagenesis in sorghum
Mar. 14 - 17, 2019	61st Annual Maize Genetics Conference, St. Louis, MO
	Poster: Agrobacterium-delivered CRISPR/Cas9 system for targeted mutagenesis in sorghum
Mar. 6, 2019	6th Iowa State University R.F. Baker Plant Breeding Symposium, Ames, IA
	Poster: Agrobacterium-delivered CRISPR/Cas9 system for targeted mutagenesis in sorghum
Mar. 2, 2018	5th Iowa State University R.F. Baker Plant Breeding Symposium, Ames, IA
	Poster: Topics on genomic selection in breeding context
Jan. 13 - 17, 2018	Plant & Animal Genome XXVI Conference, San Diego, CA
	Poster: Topics on genomic selection in breeding context