Curriculum Vitae

Zhikai Liang

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Department of Agronomy & Horticulture
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Employment

Research Assistant, Department of Agronomy and Horticulture, University of Nebraska-Lincoln 2015-present

Research Assistant, Department of Biochemistry, Molecular Biology, Entomology and Plant Pathology, Mississippi State University 2012-2015

Education

PhD candidate Agronomy and Horticulture (with James C. Schnable), University of Nebraska-Lincoln 2015-present

BA Agronomy, Nanjing Agricultural University 2007-2011

Publications

4. Choudhury SD, Samal A, Stoerger V, Schnable JC, **Liang Z**, Yu J (2016) Automated Vegetative Stage Phenotyping Analysis of Maize Plants using Visible Light Images. 22nd ACM SIGKDD Conference on Knowledge Discovery and Data Mining.

3. **Liang Z**, Schnable JC (2016) RNA-seq based analysis of population structure within the maize inbred B73. PLoS ONE doi: 10.1371/journal.pone.0157942

2. Lv Y, **Liang Z**, Ge M, Qi W, Zhang T, Lin F, Peng Z, Zhao H (2016) Genome-wide identification and functional prediction of nitrogen-responsive intergenic and intronic long non-coding RNAs in maize (Zea mays L.). BMC Genomics doi: 10.1186/s12864-016-2650-1

1. Zhang Y, Zheng J, **Liang Z**, Liang Y, Peng Z, Wang C. (2015) Verification and evaluation of grain QTLs using RILs from TD70 x Kasalath in rice. Genet Mol Res doi: 10.4238/2015.November.18.53

Manuscripts in Review

1. Zhang Y, Ngu DW, **Liang Z**, Qiu Y, Roston RL, Schnable JC. Identifying changes in gene regulation across multispecies genomic system.

Presentations

Oral Presentations

1. **Liang Z**, Schnable JC. (2016) B73 maize population structure analysis by RNA-seq data. 58th Maize Genetics Conference. Jacksonville, Florida.

Poster Presentations

1. **Liang Z**, Bashyam S, Samal A, Choudhury SD, Geng B, Ge Y, Rodriguez O, Schnable JC. (2016) Computer vision based phenotyping of panicoid crops. 2016 Nebraska Plant Science Retreat. Nebraska City, Nebraska.

2. **Liang Z**, Bashyam S, Samal A, Choudhury SD, Geng B, Ge Y, Rodriguez O, Schnable JC. (2016) Computer vision based phenotyping of panicoid crops. 2016 Purdue Plant Science Symposium. West Lafaytte, Indiana.

3. **Liang Z**, Schnable JC. (2016) B73 maize population structure analysis by RNA-seq data. UNL Plant Breeding and Genetics Symposium. Lincoln, Nebraska.

4. **Liang Z**, Schnable JC. (2015) B73 maize population structure analysis by RNA-seq data. Plant Science Symposium "Plant Phenomics: from pixels to traits". Lincoln, Nebraska.

Awards

1. 2016 DuPont Plant Sciences Symposia Series - Purdue Plant Science Symposium, Travel Scholarship.

Teaching Experience

Mississippi State University (Starkville, Mississippi, USA)

Lecturer, BCH8654 Intermediary Metabolism, taught two classes for graduates (2014)

Service and Outreach

1. Committee, 2017 Dupont Pioneer - UNL Plant Breeding Symposium (2016 -).

2. Mentor. NSF REU (Research Experiences for Undergraduates) Sites Program Student, Kyle Johnsen. (June to August, 2016)

3. "Sunday with a scientist" Educated children on measuring plant phenotypes from computer vision. (May 15, 2016)

4. Secretary. Information Department, Chinese Students and Scholars Association, Mississippi State University. (August 2012 to August 2013)