

Junli Zhang

POSTDOCTORAL SCHOLAR · UC DAVIS

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Education

Department of Plant Sciences, University of California, Davis
POSTDOCTORAL SCHOLAR IN DUBCOVSKY'S LAB

Davis, California, USA
Nov 2013 - Present

Department of PSES, University of Idaho
PH.D. IN PLANT SCIENCE

Moscow, Idaho, USA
Aug 2008 - Dec 2013

College of Agronomy, Northwest A&F University
B.S. IN AGRONOMY

Yangling, Shaanxi, China
Sep. 2004 - Jul. 2008

Skills

Basic Programming	Python, Perl, Markdown, LaTeX, R, SAS, Shell Script
Quantitative Genetics	Linkage mapping, association mapping, fine mapping
Lab Skills	Common lab procedures used in molecular genetics
Statistics	Good at experiment design and statistical analysis
Bioinformatics	Shell Script, Slurm usage, blast, exome capture
Software	Microsoft Office, R, SAS, MapMaker 3.0b, QTL Cartographer, TASSEL, GAPIT, R/qtI
Languages	English, Chinese

Experience

Dubcovsky's lab, Department of Plant Sciences, University of California, Davis
POSTDOCTORAL SCHOLAR

Davis, CA, USA
Nov. 2013 - Present

- Genome-wide Association Study on Water Use Efficiency and Yield Components of Wheat Using an Association Mapping Panel and Nested Association Mapping Panel
- Genome-wide Association Mapping of Stripe Rust Resistance in Spring Hexaploid Wheat from National Small Grains Collection (NSGC)

Chen's Lab, Department of PSES, University of Idaho
RESEARCH ASSISTANT

Moscow, ID, USA
Aug 2008 - Oct 2013

- Association Mapping of Hagberg Falling Number in Hard White Spring Wheat
- Water and Nitrogen Use Efficiency Study of Triticeae CAP (TCAP) Wheat and Barley Collections (Canopy spectrum reflectance and genome-wide association mapping)
- Quantitative Trait Locus (QTL) Mapping of Grain Yield and Physiological Traits Using a Population of Recombinant Inbred Lines of Common Wheat
- Study on Barley Yellow Dwarf Virus (BYDV) Resistance of Bread Wheat by RNAi Technique Using Both Virus-Induced Gene Silencing (VIGS) and Transgenic Methods

Honors & Awards

2011-2012 Easton, Gene and Marlene PSES Scholarship
2010-2011 Pure Line Scholarship & Toevs, John L. & Lois K. Scholarship

University of Idaho
University of Idaho

Professional Affiliation

Since 2011 American Society of Agronomy (ASA)
Since 2011 Crop Science Society of America (CSSA)

USA
USA

Publications

 [Google Scholar Citation Metrics](#)

 [ResearchGate Profile](#)

2016

- Bulli, P., **J. Zhang**, S. Chao, X. Chen, and M. Pumphrey. 2016. Genetic architecture of resistance to stripe rust in a global winter wheat germplasm collection. *G3* 6(8): 2237–2253.
- Chen, J., M.J. Guttieri, **J. Zhang**, D. Hole, E. Souza, and B. Goates. 2016a. A novel QTL associated with dwarf bunt resistance in Idaho 444 winter wheat. *Theor Appl Genet*: 1–10.
- Chen, J., J. Wheeler, K. O'Brien, W. Zhao, N. Klassen, **J. Zhang**, B. Bowman, Y. Wang, C. Jackson, J.M. Marshall, and X.M. Chen. 2016b. Registration of “UI Platinum” Hard White Spring Wheat. *Journal of Plant Registrations* 10(1): 36–40.

2015

- Bonman, J.M., E.M. Babiker, A. Cuesta-Marcos, K. Esvelt-Klos, G. Brown-Guedira, S. Chao, D. See, J. Chen, E. Akhunov, **J. Zhang**, H.E. Bockelman, and T.C. Gordon. 2015. Genetic diversity among wheat accessions from the USDA National Small Grains Collection. *Crop Science* 55(3): 1243–1253.
- Bowman, B.C., J. Chen, **J. Zhang**, J. Wheeler, Y. Wang, W. Zhao, S. Nayak, N. Heslot, H. Bockelman, and J.M. Bonman. 2015. Evaluating grain yield in spring wheat with canopy spectral reflectance. *Crop Science* 55(5): 1881–1890.
- Maccaferri, M., **J. Zhang**, P. Bulli, Z. Abate, S. Chao, D. Cantu, E. Bossolini, X. Chen, M. Pumphrey, and J. Dubcovsky. 2015. A genome-wide association study of resistance to stripe rust (*Puccinia striiformis* f. sp. *tritici*) in a worldwide collection of hexaploid spring wheat (*Triticum aestivum* L.). *G3* 5(3): 449–465. (**First 3 authors contributed equally**)

2014

- **Zhang, J.**, J. Chen, B.C. Bowman, K. O'Brien, J.M. Marshall, and J.M. Bonman. 2014a. Association mapping of Hagberg falling number in hard white spring wheat. *Crop Science* 54(3): 1243–1252.
- **Zhang, J.**, J. Chen, C. Chu, W. Zhao, J. Wheeler, E.J. Souza, and R.S. Zemetra. 2014b. Genetic dissection of QTL associated with grain yield in diverse environments. *Agronomy* 4(4): 556–578.
- Chen, J., G. Hu, **J. Zhang**, C. Chu, and Y. Wu. 2014. Mapping of STS markers developed from drought tolerance candidate genes and preliminary analysis of their association with yield-related traits in common wheat (*Triticum aestivum*). *Cereal Research Communications* 42(2): 199–208.

2013

- Chen, J., J. Wheeler, J. Clayton, W. Zhao, K. O'Brien, **J. Zhang**, C. Jackson, J.M. Marshall, B.D. Brown, K. Campbell, X.M. Chen, R. Zemetra, and E.J. Souza. 2013. Registration of “UI Stone” soft white spring wheat. *Journal of Plant Registrations* 7(3): 321–326.

2011

- Li, P., J. Chen, P. Wu, **J. Zhang**, C. Chu, D. See, G. Brown-Guedira, R. Zemetra, and E. Souza. 2011. Quantitative trait loci analysis for the effect of *Rht-B1* dwarfing gene on coleoptile length and seedling root length and number of bread wheat. *Crop Sci.* 51(6): 2561–2568.