

CURRICULUM VITAE

University of Idaho

NAME: Jianli Chen

DATE: May, 2019

RANK OR TITLE: Associate Professor and Wheat Breeder

DEPARTMENT: Plant Sciences

OFFICE LOCATION: University of Idaho Aberdeen Research & Extension Center,
1693 S 2700 W, Aberdeen, ID 83210

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DATE OF FIRST EMPLOYMENT AT UI: June 17, 2007

DATE OF TENURE: July 1, 2014

DATE OF PRESENT RANK OR TITLE: July 1, 2014

EDUCATION:

Degrees:

Ph.D., 2005 Virginia Polytechnic & State University, Blacksburg, VA - Plant Breeding and Genetics
M.S., 1988 Northwest Agricultural University, Yangling, Shaanxi, China - Plant Breeding and Genetics
B.S., 1983 Northwest Agricultural University, Agronomy, Yangling, Shaanxi, China - Agronomy

EXPERIENCE:

Teaching, Extension and Research Appointments:

2014 - present, Associate Professor and Wheat Breeder, Graduate Faculty, Department of Plant Sciences, University of Idaho Aberdeen Research & Extension Center, Aberdeen, ID, USA
2007 - 2013, Assistant Professor and Wheat Breeder, Graduate Faculty, Department of Plant Sciences, University of Idaho Aberdeen Research & Extension Center, Aberdeen, ID, USA
2007 - present, Adjunct Professor, Department of Plants, Soils, and Climate, Utah State University, Logan, UT, USA (Graduate committee)
2010 - present, Adjunct Professor, Department of Plant and Soil Sciences, Northwest A & F University, Yangling, Shaanxi, P. R. China (Graduate committee)
2006 - 2007, Research Scientist, Department of Crop and Soil Environmental Sciences (CSES), Virginia Polytechnic Institute and State University (Virginia Tech), Blacksburg, Virginia, USA
1997 - 2006, Research Associate, Department of CSES, Virginia Tech, Blacksburg, Virginia, USA
1996, Visiting Scientist, USDA-ARS Forage and Range Research Laboratory (FRRL), Utah State University, Logan, Utah, USA
1994 - 1995, Adjunct Associate Professor, Shaanxi Academy of Agricultural Sciences (SAAS), Yangling, Shaanxi, P.R. China
1993, Visiting Scholar, USDA-ARS FRRL, Utah State University, Logan, Utah, USA
1990 - 1993, Adjunct Assistant Professor, SAAS, Yangling, Shaanxi, P. R. China
1988 - 1990, Research Faculty, SAAS, Yangling, Shaanxi, P. R. China
1983 - 1985, Teacher, Biology, Genetics, and Breeding, Professional High School of Agriculture, Shangnan, Shaanxi, P.R. China

Academic Administrative Appointments:

1994 - 1995, Executive Secretary, National Program Office for the United Nation Development Program (UNDP), Shaanxi Academy of Agricultural Sciences, Shaanxi, Yangling, P.R. China

TEACHING ACCOMPLISHMENTS: (Academic and Extension teaching)

Areas of Specialization:

Plant Breeding, Genetics, Genomics, Cytogenetics

Courses Taught in Classroom at UI:

PISc502 Advanced Plant Breeding and Genetics, directed study, two students, spring 2019
 PISc501 Guest Seminar, Overview of Wheat Breeding Methods, spring 2019
 PISc502 Advanced Plant Breeding and Genetics, directed study, four students, fall 2018
 PISc501 Guest Seminar, Overview of US Wheat Breeding and Genetics Programs, fall 2018
 PISc502 Cereal Breeding and Genetics, directed study, two students, fall 2017
 PISc502 QTL Mapping in Cereal Crops, directed study, two students, spring and fall 2016
 PISc502 Cereal Breeding and Genetics, directed study, two students, summer 2015
 PISc501 Guest Seminar, Chromosome engineering and breeding, spring 2012
 PISc501 Guest Seminar, Breeding for drought tolerance spring 2011
 PISc501 Guest Seminar, Chromosome engineering and breeding, spring 2010
 PISc501 Graduate seminar, 50% team teaching class, fall 2008, spring and fall 2009, spring 2010
 PISc399 Special study, 50% team teaching class, Mar. 2009
 PISc501 Guest Seminar, Genome-wide identification of the quantitative trait loci associated with end-use quality and disease resistance in bread wheat, spring 2008

Courses Taught in Classroom before UI:

CSES4144 Plant Breeding and Genetics, special topics, Depart. of CSES, Virginia Tech (VT), 2000
 CSES5144 Advanced Plant Breeding and Genetics, special topics, Depart. of CSES, VT, 2003
 Virginia Governor's School Use of DNA Technology in Plant Breeding, VT, 2002 and 2006
 High School Biology and Introduction to Plant Genetics and Breeding, Shangnan Professional High School of Agriculture, Shangnan, Shaanxi, P.R. China, 1983-85

Scholarly Events Organized/Chaired

Student symposium, Aberdeen, twice per year, 2009 – 2019

Students Advised and Being Advised:**Graduate Students as a Major Professor:**

Tyler Gordon, Ph.D, 2016 - present
 Justin Wheeler, Ph.D, 2016 - present
 Kyle Isham, MS, 2018 - present
 Jacob Bevan, MS, 2017 - present
 Yuxiu Liu, Visiting Ph.D, 2014 - 2016
 Brian Bowman, Ph.D, 2011 - 2015
 Santosh, Nayak, MS, 2011 - 2014
 Junli Zhang, Ph.D, 2008 - 2013
 Ping Li, Visiting Ph.D, 2010 - 2012

Graduate Committee:

Katrina Johnson, MS, 2018 - present
 Rachel Patterson, Ph.D, 2019 started
 Kaitlyn Bissonette, MS, 2012

Undergraduate Students:

Jaren Woods (Utah Valley University), summer 2019
 Brittany Arielle Mangum (ISU), summer 2019
 Alyssa Sierra Freeman (ISU), summer 2019
 LinTao Lai (High school graduated), fall, 2018
 Brian Zhu (High school graduated), summer, 2017
 Jacob Bevan (Pre-graduate student), summer, 2017
 Kyle Isham (UI), summer, 2016, 2017
 Chantel Inskeep (ISU), summer, 2016
 Chantel Inskeep (ISU), summer, 2015

Chance Power (UI), summer, 2015
 Kelly Deobald (UI), summer, 2014
 Cody O'Brien (BYU), summer, 2013
 Rachel Asmus (ISU), summer, 2013
 Sage Goff (BYU), summer, 2012
 Celina Twitchell (USU), summer, 2010 - 2011
 Soya Liu (WSU), summer, 2010
 Curtis Brown (ISU), summer, 2009 - 2012
 Tyler Mock (BYU), summer, 2009

SCHOLARSHIP ACCOMPLISHMENTS: (Including scholarship of teaching and learning, artistic creativity, discovery, and application/integration)

Refereed/Adjudicated Publications

Book chapters

Wang, X., W. Ji, X. Xu, **J. Chen**, H. Zhao, and X. Xue. 1993. Wheat Chromosome Engineering and Breeding (In Chinese). HeBei Science and Technology Press House. P. R. china.

Refereed Journals (24 since 2014, 49 papers since 2007, *Corresponding Author, IF, impact factor)

- Wang, R., T. Gordon, D. Hole, W. Zhao, K. Isham, J. M. Bonman, B. Goates, and **J. Chen***. 2019. Identification and Assessment of Two Major QTL for Dwarf Bunt Resistance in Winter Wheat Line 'IDO835'. *Theor Appl Genet.* (Accepted). Conceptualized this study, wrote and revised manuscript. **IF: 3.9.**
- Singh, L., J.A Anderson, **J. Chen**, B.S Gill, V.K Tiwari, and N. Rawat. 2019. Development and validation of a perfect KASP marker for Fusarium head blight resistance gene *Fhb1* in wheat. *The Plant Pathology Journal.* Conceptualized this study and revised manuscript.
- Zheng, X., X. Wen, L. Qiao, J. Zhao, X. Zhang, X. Li, Sh. Zhang, Z. Yang, Zh. Chang, **J. Chen***, J. Zheng*. 2019. Genetic dissection of QTrl.saw-2D.2, a major QTL for total seedling root length in wheat. *Planta.* Conceptualized this study and revised manuscript. **IF: 3.2.**
- Shao, Y., M-H. Tsai, Y. He, **J. Chen**, C. Wilson, A.H. Lin. 2019. Reduction of falling number in soft white spring wheat caused by an increased proportion of spherical B-type starch granules. *Food Chemistry* 284:140–148. Conceptualized this study and revised manuscript. **IF: 4.9.**
- Wang, R., Y. Liu, K. Isham, W. Zhao, J. Wheeler, N. Klassen, Y. Hu, J.M., Bonman, **J. Chen***. 2018. QTL identification and KASP marker development for productive tiller and fertile spikelet numbers in two high-yielding hard white wheat cultivars. *Molecular Breeding* 38 (135). Open access. <https://doi.org/10.1007/s11032-018-0894-y>. Conceptualized this study, wrote and revised manuscript.
- Liu, Y., R. Wang, Y. Hu, and **J. Chen***. 2018. Genome-Wide Linkage Mapping of Quantitative Trait Loci for Late-Season Physiological and Agronomic Traits in Spring Wheat under Irrigated Conditions. *Agronomy*, 60. doi:10.3390/agronomy8050060. Conceptualized this study, wrote and revised manuscript.
- Dong, H., R. Wang, Y. Yuan, J. Anderson, M. Pumphrey, Zh. Zhang, and **J. Chen***. 2018. Evaluation of the Potential for Genomic Selection to Improve Spring Wheat Resistance to Fusarium Head Blight in the Pacific Northwest. *Frontiers in Plant Science.* <https://doi.org/10.3389/fpls.2018.00911>. Conceptualized this study, wrote and revised manuscript. **IF: 3.7.**
- Bissonnette, K. M., Ph. Wharton, **J. Chen**, J. Marshall. 2018. Survey of *Fusarium* species associated with fusarium head blight of spring wheat (*Triticum aestivum*) in Southeastern Idaho. *Plant Health Progress* 19: 125-127. <https://doi.org/10.1094/php-10-17-0066-S>. Collaborator.
- Liang, X., Y. Liu, **J. Chen**, C. Adams. 2018. 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 DOI 10.1111/jac.12231. Conceptualized this study and revised manuscript.
- Zheng, X., X. Li, Ch. Ge, J. Chang, M. Shi, **J. Chen**, L. Qiao, Zh. Chang, J. Zheng, J. Zhang. 2017. Characterization of the CCT family and analysis of gene expression in *Aegilops tauschii*. *Dec. 2017. PLoS ONE.* <https://doi.org/10.1371/journal.pone.0189333>. Collaborator. **IF: .**
- Assanga, S.O., S. Dhakal, C-T., Tan, J.C. Rudd, G. Zhang, A. Ibrahim, Q. Xue, R. Devkota, S. Haley, **J. Chen**, M. P. Fuentealba, S. Baker, J. Baker. S.Y. Liu. 2017. Mapping of quantitative trait loci for grain yield and its components in a US popular winter wheat using 90K SNPs. *PLoS ONE.* Dec. 2017. DOI

- 10.1371/journal.pone.0189669. Collaborator.
- 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 DOI:10.1007/s11104-017-3454-z. Conceptualized this study and revised manuscript. **IF: 3.3.**
- Chen, J***, J. Wheeler, N. Klassen, W. Zhao, K. O'Brien, C. Jackson, J. M. Marshall, X.M. Chen. 2017. Registration of 'UI Sparrow' wheat. *Journal of Plant Registration*. Open access. DOI: 10.3198/jpr2017.04.0021crc. Conceptualized this study, wrote and revised manuscript.
- 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. DOI:10.3390/agronomy7030051. Conceptualized this study, wrote and revised manuscript.
- Wang, R., **J. Chen***, J. Zhang, W. Zhao, J. Wheeler, N.Klassen, J.A. Anderson, D.R. See and Y. Dong. 2017. Genome-Wide Association Mapping of Resistance QTL to Fusarium Head Blight in Spring Wheat Lines Grown in Pacific Northwest and CIMMYT. *Phytopathology*. DOI: 10.1094/PHYTO-02-17-0073-R. Conceptualized this study, wrote and revised manuscript.
- K.L. Jernigan, C. F. Morris, R. Zemetra, **J. Chen**, K. Garland-Campbell, A.H. Carter. 2017. Genetic mapping of quantitative trait loci for end-use quality traits in a soft wheat RIL population. *Journal of Cereal Science*. DOI: 10.1016/j.jcs.2017.06.005. Collaborator.
- Liu, Y., P. Li, J. Zhang, Y. Hu, and **J. Chen***. 2016. Dwarfing genes *Rht4* and *Rht-B1b* affect plant height, agronomic traits, and kernel quality traits in common wheat under two water regimes. *Field Crops Research* Vol. 204: 242-248. DOI: 10.1016/j.fcr.2017.01.020. Conceptualized this study, wrote and revised manuscript. **IF: 4.0.**
- J. Chen***, M. J. Guttieri, J. Zhang, D. Hole, E. Souza, B. Goates. 2016. A novel QTL associated with dwarf bunt resistance in Idaho 444 winter wheat. *Theor Appl Genet*. 129(12): 2313-2322. DOI 10.1007/s00122-016-2783-2. Conceptualized this study, wrote and revised manuscript. **IF: 3.9.**
- J. Chen***, J. Wheeler, K. O'Brien, W. Zhao, N. Klassen, J. Zhang, B. Bowman, Y. Wang, C. Jackson, J. M. Marshall, X.M. Chen. 2015. Registration of 'UI Platinum' Hard White Spring Wheat. *J. Plant Registration* 10: 36-40. DOI:10.3198/jpr2015.06.0037crc. Conceptualized this study, wrote and revised manuscript.
- Bowman, B., **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 Sci*.55:1881 – 1890. Conceptualized this study, wrote and revised manuscript.
- Bonman, J.M., E. M. Babiker, A. Cuesta-Marcos, K. Esvelt-Klos, G. Brown-Guedira, Sh. Chao, D. See, **J.Chen**, E. Akhunov, J. Zhang, H. E. Bockelman, and T. C. Gordon. 2015. Genetic Diversity among Wheat Germplasm-Bank Accessions. *Crop Sci*. 55:1243 – 1253. Collaborator.
- Sherman, J.D., N. K. Blake, J. M. Martin, K. D. Kephart, D. K. Weaver, S. P. Lanning, H.-Y. Heo, M. Pumphrey, **J. Chen**, and L. E. Talbert. 2015. Impact of a major gene for stem solidness on agronomic performance of spring wheat near-isogenic lines. *Crop Sci*. 55 (2): 514-520. Collaborator.
- Zhang, J., **J. Chen***, Ch. Chu, W. Zhao, J. Wheeler, E. Souza, and R. Zemetra. 2014. Genetic dissecting of QTL associated with grain yield in diverse environments. *Agronomy* 4(4): 556-578. Conceptualized this study, wrote and revised manuscript.
- Zhang, J., **J. Chen***, Y. Wang, B. Bonman, J. Wheeler, W. Zhao, K. O'Brien, J.M. Marshall, H. Bockelman, and J. Bonman. 2014. Association mapping of Hagberg falling number in hard white spring wheat collection materials. *Crop Science* 54:1243–1252. Conceptualized this study, wrote and revised manuscript.
- Chen, J***, G. Hu, C. Chu, and Y. Wu. 2013. STS markers developed from drought tolerance candidate genes and mapped in two mapping populations and one set of nulli-tetrasomic lines of common wheat (*Triticum aestivum*). *Cereal Communication* DOI: 10.1556/CRC.2013.0056. Conceptualized this study, wrote and revised manuscript.
- Liu, Sh., C.A. Griffey, M.D. Hall, A. L. McKendry, **J. Chen**, W.S. Brooks, G. Brown-Guedira, D. Van Sanford, D.G. Schmale. 2013. Molecular characterization of field resistance to Fusarium head blight in two US soft red winter wheat cultivars. *Theor Appl Genet* DOI 10.1007/s00122-013-2149-y. Collaborator.
- Chen, J***, J. Wheeler, J. Clayton, W. Zhao, K. O'Brien, C. Jackson, J. M. Marshall, B.D. Brown, K. Campbell, X.M. Chen, R. Zemetra, and E.J. Souza. 2013. Registration of 'UI Stone' Wheat. *J. Plant Registration* 7: 321 – 326. Conceptualized this study, wrote and revised manuscript.
- Chen, J***, Ch. Chu, E.J. Souza, M.J. Guttieri, X. Chen, S. Xu, D. Hole, and R. Zemetra. 2012. Whole genome-wide mapping for high-temperature adult-plant resistance to stripe rust (*Puccinia striiformis* f. sp.

- triticum*) in a hard red winter wheat germplasm IDO444. *Molecular Breeding* 29: 791 – 800. Conceptualized this study, wrote and revised manuscript.
- Chen, J***, E.J. Souza, D. Hole, M.J. Guttieri, K. O'Brien, J. Wheeler, L. Sorensen, J. Clayton, R. Zemetra, J.M. Marshall, and X. Chen. 2012. Registration of 'UI SRG' Wheat. *J. Plant Registration* 6 (2): 66-70. Conceptualized this study, wrote and revised manuscript.
- Chen, J***, C.A. Griffey, S. Liu, and M.A. Saghai Maroof. 2012. Registration of 'VA04W-433' and 'VA04W-474' Wheat Germplasm. *J. Plant Registration* 6 (1): 111-116. Conceptualized this study, wrote and revised manuscript.
- Liu, S.Y., C.A. Griffey, M.D. Hall, **J. Chen**, S. Liu, D. Tucker, W.S. Brooks. 2012. Registration of Becker/Massey Wheat Recombinant Inbred Line Mapping Population. *J. Plant Registration* 3:358-362. Collaborator.
- Li, P., **J. Chen***, and P. Wu. 2012. Evaluation of grain yield and three physiological traits in 30 spring wheat genotypes across three irrigation regimes. *Crop Sci* 52 (1): 110-121. Conceptualized this study, wrote and revised manuscript.
- Li, P., P. Wu, and **J. Chen***. 2012. Evaluation of flag leaf chlorophyll content index in 30 spring wheat genotypes under three irrigation regimes. *Australian Journal of Crop Science*, 6:1123-1130. Conceptualized this study, wrote and revised manuscript.
- Li, P., **J. Chen***, P. Wu, J. Zhang, Ch. Chu, D. See, G. Brown-Guedira, R. Zemetra, and E. Souza. 2011. QTL analysis for the effect of *RhtB1* dwarfing gene on coleoptiles length, seedling root length and numbers of bread wheat (*Triticum aestivum* L.). *Crop Sci* 51: 2561-2568. Conceptualized this study, wrote and revised manuscript.
- Li, P., **J. Chen***, and P. Wu. 2011. Agronomic characteristics and grain yield of 30 spring wheat genotypes under drought stress and non-stress conditions. *Agronomy Journal* 103 (6): 1619-1628. Conceptualized this study, wrote and revised manuscript.
- Li, P., P. Wu, and **J. Chen***. 2011. Water use efficiency and nitrogen use efficiency of 30 spring wheat genotypes under drought stress and well-watered conditions. *International Agricultural Engineering Journal*, 20:8-17. Conceptualized this study, wrote and revised manuscript.
- Quincke, M. C., J. Peterson, R.S. Zemetra, J. L. Hansen, **J. Chen**, O. Riera-Lizarazu, Ch.C. Mundt. 2011. Quantitative trait loci analysis for resistance to *Cephalosporium* stripe, a vascular wilt disease of wheat. *Theor Appl Genet* 122:1339–1349. Collaborator.
- Chao, S., J. Dubcovsky, J. Dvorak, M.C. Luo, P.S. Baenziger, R. Matnyazov, D.R. Clark, L. Talbert, J.A. Anderson, S. Dreisigacker, K. Glover, **J. Chen**, K. Campbell, P.L. Bruckner, J.C. Rudd, S. Haley, B.F. Carver, R. Sims, M.E. Sorrells, and E. Akhunov. 2011. Homoeolog-specific patterns of linkage disequilibrium and SNP variation in hexaploid wheat. *BMC Genomics* 11: 727-744. Collaborator.
- Griffey, C.A., W. E. Thomason, R. M. Pitman, B. R. Beahm, P. G. Gundrum, S. Y. Liu, **J. Chen**, J. J. Paling, D. W. Dunaway, W. S. Brooks, M. E. Vaughn, J. E. Seago, B. C. Will, E.G. Hokanson, H. D. Behl, R. A. Corbin, T. R. Lewis, M. D. Hall, J. T. Custis, D.E. Starner, S. A. Gulick, S. R. Ashburn, D. L. Whitt, H. E. Bockelman, J. P. Murphy, R. A. Navarro, E. J. Souza, G. L. Brown-Guedira, J. A. Kolmer, D. L. Long, Y. Jin, X. Chen, and S. E. Cambron. 2011. Registration of 1 'SW049029104' Wheat. *J. Plant Registration* 1: 91-97. Collaborator.
- Griffey, C.A., W. E. Thomason, R. M. Pitman, B. R. Beahm, J. J. Paling, **J. Chen**, P. G. Gundrum, J. K. Fanelli, D. W. Dunaway, W. S. Brooks, M. E. Vaughn, E. G. Hokanson, H. D. Behl, R. A. Corbin, J. E. Seago, B. C. Will, M. D. Hall, S. Y. Liu, J. T. Custis, D. E. Starner, S. A. Gulick, S. R. Ashburn, E. H. Jones Jr., D. L. Whitt, H. E. Bockelman, E. J. Souza, G. L. Brown-Guedira, J. A. Kolmer, D. L. Long, Y. Jin, X. Chen, and S. E. Cambron. 2011. Registration of 'Merl' wheat. *J. Plant Registration* 1:68-74. Collaborator.
- Hall, M. D., W. Rohrer-Perkins, C. A. Griffey, S. Y. Liu, W. E. Thomason, A. O. Abaye, A. Bullard-Schilling, P. G. Gundrum, J. K. Fanelli, **J. Chen**, W. S. Brooks, J. E. Seago, B. C. Will, E. G. Hokanson, H. D. Behl, R. M. Pitman, J. C. Kenner, M. E. Vaughn, R. A. Corbin, D. W. Dunaway, T. R. Lewis, D. E. Starner, S. A. Gulick, B. R. Beahm, D. L. Whitt, J. B. Lafferty, and G. A. Hareland. 2011. Registration of 'Snowglenn' Winter Durum Wheat. *J. Plant Registration* 1: 81-86. Collaborator.
- Chen, J***, E.J. Souza, N.A. Bosque-Pérez, M.J. Guttieri, K.L. O'Brien, J.M. Windes, S.O. Guy, B.D. Brown, X.M. Chen, and R.S. Zemetra. 2010. Registration of 'UI Winchester' Wheat. *J. Plant Registration* 4:1 - 4. Conceptualized this study, wrote and revised manuscript.
- Griffey, C.A., W. E. Thomason, R. M. Pitman, B. R. Beahm, J. J. Paling, **J. Chen**, J. K. Fanelli, J. C. Kenner, D. W. Dunaway, W. S. Brooks, M. E. Vaughn, E.G. Hokanson, H. D. Behl, R. A. Corbin, J. T. Custis, C. M. Waldenmaier, D. E. Starner, S. A. Gulick, S. R. Ashburn, D. L. Whitt, H. E. Bockelman, E. J. Souza, D.

- L. Long, Y. Jin, X. Chen, and S. E. Cambron. 2010. Registration of 'Jamestown' Wheat. *J. Plant Registration* 4: 28 – 33. Collaborator.
- Griffey, C.A., W. E. Thomason, R. M. Pitman, B. R. Beahm, J. J. Paling, **J. Chen**, J. K. Fanelli, J. C. Kenner, D. W. Dunaway, W. S. Brooks, M. E. Vaughn, E.G. Hokanson, H. D. Behl, R. A. Corbin, J. T. Custis, C. M. Waldenmaier, D. E. Starner, S. A. Gulick, S. R. Ashburn, D. L. Whitt, H. E. Bockelman, E. J. Souza, D. L. Long, Y. Jin, X. Chen, and S. E. Cambron. 2010. Registration of 'Shirley' Wheat. *J. Plant Registration* 4: 38 - 43. Collaborator.
- Griffey, C.A., W. E. Thomason, R. M. Pitman, B. R. Beahm, J. J. Paling, **J. Chen**, J. K. Fanelli, J. C. Kenner, D. W. Dunaway, W. S. Brooks, M. E. Vaughn, E.G. Hokanson, H. D. Behl, R. A. Corbin, J. T. Custis, C. M. Waldenmaier, D. E. Starner, S. A. Gulick, S. R. Ashburn, D. L. Whitt, H. E. Bockelman, E. J. Souza, D. L. Long, Y. Jin, X. Chen, and S. E. Cambron. 2010. Registration of '3434' Wheat. *J. Plant Registration* 4: 44 - 49. Collaborator.
- Chen, J***, E. J. Souza, R. S. Zemetra, N. A. Bosque-Pérez, M. J. Guttieri, J. Wheeler, K. M. O'Brien, J. W. Windes, S. O. Guy, B. D. Brown, X. M. Chen. 2009. Registration of 'Cataldo' Spring Wheat. *J. Plant Registration* 3: 264 – 268. Conceptualized this study, wrote and revised manuscript.
- Griffey, C.A., W. E. Thomason, R. M. Pitman, B. R. Beahm, J. J. Paling, **J. Chen**, J. K. Fanelli, J. C. Kenner, D. W. Dunaway, W. S. Brooks, M. E. Vaughn, E.G. Hokanson, H. D. Behl, R. A. Corbin, J. T. Custis, C. M. Waldenmaier, D. E. Starner, S. A. Gulick, S. R. Ashburn, D. L. Whitt, H. E. Bockelman, E. J. Souza, D. L. Long, Y. Jin, X. Chen, and S. E. Cambron. 2009. Registration of 'USG 3555' Wheat. *J. Plant Registration* 3: 273 - 278. Collaborator.
- Griffey, C.A., W. E. Thomason, R. M. Pitman, B. R. Beahm, J. J. Paling, **J. Chen**, J. K. Fanelli, J. C. Kenner, D. W. Dunaway, W. S. Brooks, M. E. Vaughn, E.G. Hokanson, H. D. Behl, R. A. Corbin, J. T. Custis, C. M. Waldenmaier, D. E. Starner, S. A. Gulick, S. R. Ashburn, D. L. Whitt, H. E. Bockelman, E. J. Souza, D. L. Long, Y. Jin, X. Chen, and S. E. Cambron. 2009. Registration of '5205' Wheat. *J. Plant Registration* 3: 283 - 288. Collaborator.
- Zhou, K., J. Hao, C. Griffey, H. Chung, S. F. O'Keefe, **J. Chen**, and Sh. Hogan. 2007. Antioxidant Properties of *Fusarium* Head Blight-Resistant and-Susceptible Soft Red Winter Wheat Grains Grown in Virginia. *J. Agric. Food Chem.*, 2007, 55 (9), 3729-3736. Collaborator.
- Chen, J***, C. A. Griffey, M. A. Saghai Maroof, E. L. Stromberg, R. M. Biyashev, W. Zhao, M. R. Chappell, T. H. Pridgen, Y. Dong, and Z. Zeng. 2006. Validation of Two Major QTL for *Fusarium* Head Blight Resistance in Chinese Wheat Line W14. *Plant Breeding* 125: 99-101. Conceptualized this study, wrote and revised manuscript.

Invited talks and seminars (12 since 2014)

- Chen, J.** 2019. Improving low falling number in spring wheat. Invited talk at Falling number workshop, Portland, OR, Jan. 29-30, 2019.
- Chen, J.** 2018. Unlocking Genes Related to Low Falling Number Wheat Using Genomics-Assisted Approaches. Invited talk at Western Wheat Works meeting, Idaho Falls, ID. June 26-28, 2018.
- Chen, J.** 2018. Developing FHB Resistant Wheat Cultivars for Idaho and the Western US. Invited talk at Western FHB Symposium. Bozeman, MT. Mar. 13-14, 2018; at Western Wheat Works meeting, Idaho Falls, ID. June 26-28, 2018.
- Chen, J.** 2018. Overview of US Wheat Breeding and Genetics Programs. Invited talk to Northwest A & F University, Yangling, Shaanxi, P.R. China. May 31, 2018.
- Chen, J.** 2018. Overview of US Wheat Breeding and Genetics Programs. Invited talk to Shandong Agricultural University, Taian, P.R. China. May 14, 2018.
- Chen, J.** 2018. Genomic-Assisted Breeding for Productive Tiller and Spikelet Numbers in Wheat. Invited talk to Shanxi Academy of Agricultural Sciences, Lin Fen, Shanxi, P.R. China. May 2018.
- Chen, J.** 2017. Overview of US Wheat Breeding and Genetics Programs. Invited talk to Shanxi Academy of Agricultural Sciences, Lin Fen, Shanxi, P.R. China. May 2017.
- Chen, J.** 2016. Breeding and Genetics for dwarf bunt resistance. Invited talk to Institute of Plant Protection, China Academy of Agricultural Sciences. Beijing, P.R. China. Oct. 2016.
- Chen, J.** 2015. University of Idaho Wheat Breeding and Genetics Program Update. Invited talk to Shanxi Academy of Agricultural Sciences, Lin Fen, Shanxi, P.R. China. Oct. 2016.
- Chen, J.** 2015. Accelerated wheat breeding and genetics program at the University of Idaho. Invited talk to faculty and students in the departments of Crop and Soil Sciences and USDA-ARS, Manhattan, KS, Aug. 2015.
- Chen, J.** 2015. Accelerated wheat breeding and genetics program at the University of Idaho. Invited talk to

faculty and students in the department of Crop and Soil Sciences. Griffin Campus, University of Georgia, Griffin, GA, March, 2015.

Chen, J. University of Idaho Wheat Breeding and Genetics Program Update. Invited talk to XiJing Academy of Agricultural Sciences, XinJing, P.R. China. Oct. 13- 20, 2014.

Chen, J. Integrated wheat breeding and genetics program at University of Idaho. Invited talk at 2013 Yangling International Agri-science Forum. Yangling, Shaanxi, P.R. China. Nov. 7 - 9, 2013.

Chen, J. Breeding for drought tolerance in common wheat. Invited seminar by College of Agriculture, Northwest A&F University, Yangling, Shaanxi, P.R. China. May, 2012.

Chen, J. Molecular breeding for biotic and abiotic resistances in wheat. Invited seminar, College of Agriculture, Northwest A&F University, Yangling, Shaanxi, P.R. China. Sep. 2010.

Oral talks and published abstracts (26 since 2007, 10 since 2014)

Chen, J., R. Wang, K. Isham, J. Wheeler, W. Zhao, N. Klassen. 2019. Prospects and challenges to improve wheat grain yield components using molecular markers. Oral presentation and abstract in the proceedings of 2019 ASA, CSSA and SSSA Int'l Annual meeting, San Antonio, TX, Nov. 9 - 14.

Chen, J., L. Qiao, J. Wheeler, K. Isham, R. Wang, W. Zhao, N. Klassen. 2019. QTL mapping of grain cadmium and other related metal in spring wheat. Oral presentation and abstract in the proceedings of 2019 ASA, CSSA and SSSA Int'l Annual meeting, San Antonio, TX, Nov. 9 - 14.

Chen, J., R. Wang, K. Isham, J. Wheeler, W. Zhao, N. Klassen. 2019. QTL associated with yield components identified in two spring wheat populations. Oral presentation and abstract in the proceedings of 2019 International Plant and Animal Genome XVI Conference, Town & Country Convention Center, San Diego, California Jan.12-16, 2019.

Wang, R., **J. Chen**, D. Hole, W. Zhao, K. Isham, T. Gordon, J. M. Bonman, M. J. Guttieri, E. Souza, B. Goates. 2018. Prospects and challenges for breeding bunt resistant wheat using molecular marker assisted selection. Oral presentation and abstract in the proceedings of XX international workshop on the smuts and bunts, Logan, UT, USA, May 29 to June 2.

Gordon, T., R. Wang, D. Hole, B. Goates, H. Bockelman, K. Klos, **J. Chen**, J. M. Bonman. 2018. Genome-Wide Association Mapping for Dwarf Bunt Resistance in the National Small Grains Collection. Oral presentation and abstract in the proceedings of XX international workshop on the smuts and bunts, Logan, UT, USA, May 29 to June 2.

Chen, J., D. Hole, R. Wang, J. Zhang, W. Zhao, M. Guttieri, E. Souza, B. Goates. 2017. Perspective using molecular marker-assisted breeding for dwarf and common bunt resistance in winter wheat. Oral presentation and abstract in the proceedings of 2017 International Wheat Genetics Symposium, Tulln, Austria, April 23 to 28.

Chen, J., R. Wang, J. Zhang, D. Hole, M. J. Guttieri, E. Souza, B. Goates. 2016. Validation and marker assisted selection for a novel QTL *Q.DB.ui-7DS* associated with dwarf bunt resistance of winter wheat. Oral presentation and abstract in the proceedings of ASA, CSSA and SSSA Int'l Annual meeting, Phoenix, AZ, Nov. 15-18.

Tyler, G., **J. Chen**, R. Wang, J.M. Bonman. 2016. Association mapping of yield components in 2-Row spring barley from the USDA National Small Grains Collection. Oral presentation and abstract in the proceedings of ASA, CSSA and SSSA Int'l Annual meeting, Phoenix, AZ, Nov. 15-18.

Liu., Y., R. Wang, **J. Chen**, D.R. See. 2016. Genome-wide linkage mapping of QTL for yield component in UI Platinum/SY Capstone double haploid population. Oral presentation and abstract in the proceedings of ASA, CSSA and SSSA Int'l Annual meeting, Phoenix, AZ, Nov. 15-18.

Assanga, S.O., S. Dhakal, C-T., Tan, J.C. Rudd, G. Zhang, A. Ibrahim, Q. Xue, R. Devkota, S. Haley, **J. Chen**, M. P. Fuentealba, S. Baker, J. Baker. S.Y. Liu. 2015. Identification of QTL for yield and yield components and SNP development. ASA-CSSA-SSSA International Annual Meeting. Nov. 15-18, Minneapolis, MN USA.

Chen, J., Y. Wang, J. Zhang, B. Bowman, S. Nayaky, J. Wheeler, W. Zhao, K. O'Brien, H. Bockelman, and J. Bonman. 2012. Evaluation and utilization of collection materials to solve Idaho wheat production concerns. Oral presentation and abstract in the proceedings of ASA, CSSA and SSSA Int'l Annual meeting, Cincinnati, OH, Oct.21-24.

Bonman, J.M., H. E. Bockelman, **J. Chen**, B. Bowman, G. Brown-Guidera. 2012. Adding value to the National Small Grains Collection with molecular data. Oral presentation and abstract in the proceedings of 2012 ASA, CSSA and SSSA Int'l Annual meeting, Cincinnati, OH, Oct.21-24.

Chen, J., J. Zhang, C. Chu, P. Li, W. Zhao, J. Clayton, J. Wheeler, E. Souza, and R. Zemetra. 2011. QTLs

- associated with grain yield and carbon isotope discrimination were mapped in the flanking regions of QTLs associated with plant height and days to heading. Oral presentation and abstract in the proceedings of 2011 ASA, CSSA and SSSA Int'l Annual meeting, San Antonio, TX, Oct.16-19.
- Liu, Sh. C. Griffey, M. Hall, A. McKendry, **J. Chen**, G. Brown-Guedira, D. Van Sanford, D. Schmale. 2011. QTL for Scab Resistance In Soft Red Winter Wheat Cultivars. Oral presentation and abstract in the proceedings of 2011 ASA, CSSA and SSSA Int'l Annual meeting, San Antonio, TX, Oct.16-19.
- Chen, J.**, Ch. Chu, E. Souza, X. Chen, M. Guttieri, S. Xu, D. Hole, and R. Zemetra. 2010. Genome-Wide Identification of QTLs Conferring High-Temperature Adult-Plant (HTAP) Resistance to Stripe Rust (*Puccinia striiformis* f. sp. tritici) In Wheat. Oral presentation and abstract in the proceedings of 2010 ASA, CSSA and SSSA Int'l Annual meeting, Long Beach, CA, Oct. 31 to Nov.3.
- Chen, J.**, Ch. Chu, E. Souza, X. Chen, M. Guttieri, S. Xu, D. Hole, and R. Zemetra. 2010. Genome-Wide Identification of QTLs Conferring High-Temperature Adult-Plant (HTAP) Resistance to Stripe Rust (*Puccinia striiformis* f. sp. tritici) In Wheat. Oral presentation and abstract in the proceedings of 12th ITMI meeting, Beijing, China, Sep.1 – 3.
- Chen, J.**, J. Zhang, P. Li, W. Zhao, J. Wheeler, and R. Zemetra. 2010. Physiology Breeding for Drought Tolerance at University of Idaho Wheat Breeding and Genetics Program. Oral presentation and abstract in the proceedings of 2010 ASA, CSSA and SSSA Int'l Annual meeting, Long Beach, CA, Oct. 31 to Nov.3. 2010
- Liu, Sh., C. Griffey, M. Hall, W. Brooks, A. McKendry, **J. Chen**, G. Brown-Guedira, and D. Van Sanford. 2010. Linkage and Association of Genes for Morphological Traits and Scab Resistance In US Soft Red Winter Wheat Cultivars. Oral presentation and abstract in the proceedings of 2010 ASA, CSSA and SSSA Int'l Annual meeting, Long Beach, CA, Oct. 31 to Nov.3.
- Chen, J.**, K.M. O'Brien, M.J. Guttieri, K. Peterson, E.J. Souza, Ch. Chu, S. Xu, D. See, R. Zemetra, and D. Hole. 2009. Whole genome mapping of the Quantitative Trait Loci (QTL) Associated with End-use Quality of Bread Wheat Grown under Drought Condition. Oral presentation and abstract in the proceedings of 2009 International Plant and Animal Genome XVI Conference, Town & Country Convention Center, San Diego, California Jan. 10-14, 2009.
- Liu, Sh., C.A. Griffey, A.L. McKendry, **J. Chen**, M. Hall, V. Sanford, and G. Brown-Guedira. 2009. Markers for Scab Resistance in Native Sources and Its Application in Marker-Assisted Breeding. Oral presentation and abstract in the proceedings of 2009 International Plant and Animal Genome XVI Conference, Town & Country Convention Center, San Diego, California, Jan. 10-14, 2009.
- Zemetra, R.S., J.L. Hansen, T. Koehler, **J. Chen**, O. Riera-Lizarazu, J. Leonard, M. Quincke, J. Peterson, C. Mundt, G.K. Campbell, and X. Chen. 2008. Creation of a Multiple-Use Recombinant Inbred Line Population for the Development of Molecular Markers in Soft White Winter Wheat. Manuscript in the Proceeding of the 10th International Wheat Genetics Symposium, Australia, Aug. 24-29, 2008.
- Chen, J.**, C. A. Griffey, M.A. Saghari Maroof, J. Fanelli, and J. Paling. 2006. Validation and Genetic Characterization of Three Major QTL for Fusarium Head Blight Resistance in Wheat. Oral presentation and abstract in the proceeding of 2006 ASA-CSSA-SSSA International Annual Meeting, Indianapolis, IN.
- Chen, J.**, C. A. Griffey, M.A. Saghari Maroof, E. Stromberg, R. M. Biyashev, W. Zhao, M. Chappell, and Y. Dong. 2004. Update on QTL Mapping of *Fusarium* Head Blight Resistance in Wheat. Oral presentation and abstract in the proceedings of 2nd International Symposium on Fusarium Head Blight Incorporating the 8th European Fusarium Seminar. Dec. 11-15, 2004. Wyndham Orlando Resort, Orlando, FL, USA.
- Chen, J.**, C.A. Griffey, J. Wilson, and M.A. Saghari Maroof. 2003. QTL Mapping and Marker Assisted Selection of Fusarium Head Blight Resistance in a Chinese Wheat Line W14. P. 342-345. Manuscript in the Proceedings of Tenth International Wheat Genetics Symposium. Sep.1-6, 2003. *Paestum*, Italy. Edited by Norberto E. Pogna, Maurizio Romano, Edgar A. Pogna, and Giovanni Galterio. Printed in Rome by S.I.M.I., Via N. Nisco 3/A – 00179 Roma, Italy.
- Chen, J.**, C.A. Griffey, T. Pridgen, M. Chappell. 2000. Assessment and Rational Utilization of Scab Resistance Sources in the Virginia Wheat Breeding Program. P.10-17. Manuscript in the Proceedings of International Wheat Scab Symposium. May 2000. Suzhou and Nanjing, P.R. China.
- Chen, J.**, C.A. Griffey, M.A. Saghari-Maroof, W. Zhao, R.M. Biyashev, W. Xie. 2001. Resistance to *Fusarium* Head Blight and Associated Molecular Markers. Oral presentation and abstract in the proceedings of 2001 ASA meetings. Charlotte, NC.

Posters and published abstracts (17 since 2014, 41 since 2007)

- Chen, J.**, R. Wang, K. Isham, J. Wheeler, W. Zhao, N. Klassen. 2019. Prospects and challenges to improve wheat grain yield components using molecular markers. Poster presentation and abstract in the proceedings of the first International Wheat Congress and the 14th International Wheat Genetics Symposium, Saskatoon, Canada, July 21-26.
- Isham, K., R. Wang, W. Zhao, J. Wheeler, N. Klassen, and **J. Chen**. 2019. Genome-wide QTL mapping of three yield components in a doubled haploid population derived from two adapted spring wheat cultivars 'UI Platinum' and 'LCS Star'. 2018 WheatCAP annual meeting, San Diego, Jan. 13, 2019.
- Wang, R., K. Isham, M. Su, J. Wheeler, D. Fu, **J. Chen**. 2019. Fine Mapping of Two QTL for Total Spikelet Number and Productive Tiller Number. 2018 WheatCAP annual meeting, San Diego, Jan. 13, 2019.
- Wang, R., Y. Liu, K. Isham, W. Zhao, J. Wheeler, N. Klassen, Y. Hu, J. M. Bonman, and **J. Chen**. 2019. QTL identification and KASP markers development for productive tiller and fertile spikelet number in two high yielding hard white spring wheat cultivars. Poster presentation and abstract in the proceedings of 2019 International Plant and Animal Genome XVI Conference, Town & Country Convention Center, San Diego, California Jan.12-16, 2019.
- Wang, R., T. Gordon, D. Hole, W. Zhao, K. Isham, J. M. Bonman, B. Goates, and **J. Chen**. 2019. QTL Identification and KASP Marker Development for Dwarf Bunt Resistance in Winter Wheat. Poster presentation and abstract in the proceedings of 2019 International Plant and Animal Genome XVI Conference, Town & Country Convention Center, San Diego, California Jan.12-16, 2019.
- Chen, J.**, R. Wang, W. Zhao, J. Wheeler, and N. Klassen. 2017. Update on Fusarium Head Blight Research and Breeding in Spring Wheat at University of Idaho Wheat Breeding and Genetics Program. Poster at Annual FHB Forum, Milwaukee, WI, Dec. 3-5, 2017.
- Wang, R., **J. Chen**, J. Zhang, W. Zhao, J. Wheeler, N. Klassen, J.A. Anderson, D.R. See and Y. Dong. 2016. Genome-Wide Association Mapping of Resistance QTL to Fusarium Head Blight in Spring Wheat Lines Grown in Pacific Northwest and CIMMYT. Poster presentation and abstract in the proceedings of ASA, CSSA and SSSA Int'l Annual meeting, Phoenix, AZ, Nov. 15-18
- Liang, X., D. Strawn, **J. Chen**, and J. Marshall. 2016. Cadmium Accumulation in Spring Wheat Grains Is Influenced By Cadmium Bioavailability and Root Length. Poster presentation and abstract in the proceedings of ASA, CSSA and SSSA Int'l Annual meeting, Phoenix, AZ, Nov. 15-18.
- Liang, X., Y. Liu, B. Bowman, and **J. Chen**. 2015. Physiological Responses and Yield Component Changes of Winter Wheat Genotypes under Three Water Regimes. Poster presentation and abstract in the proceedings of ASA, CSSA and SSSA Int'l Annual meeting, St. Paul, Minnesota, Nov. 15-18.
- Chen, J.***, J. Zhang, W. Zhao, J. Wheeler, N. Klassen, and J. Anderson. 2015. Assessment of resistance to *Fusarium* head blight in spring wheat lines grown in the Pacific Northwest and CIMMYT. Poster at Annual FHB Forum, St. Louis, MS, Dec. 7 -9, 2015.
- Bowman, B., **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. Poster presentation at 2015 International Wheat Conference, Sydney, Australia, Sep. 21 to 28, 2015.
- Chen, J.***, X. Chen, J. Zhang, D. See, Sh. Chao and J.M. Bonman. 2015. Identifying quantitative trait loci for high-temperature adult-plant resistance to stripe rust of wheat (*Triticum aestivum* L.). Poster presentation at 2015 Borlaug Global Rust Initiative, Sydney, Australia, Sep. 17 to 20, 2015.
- *Bowman, B., J. Zhang, J. M. Bonman, H. Bockelman, J. Wheeler, and **J. Chen**. 2015. Association Analysis of Yield in a Diverse Panel of Spring Wheat (*T. aestivum* L.) Genotypes. Poster presentation at PAG meeting, San Diego, California, Jan. 10-11, 2015.
- Assanga, S., Sh. Liu, J. C. Rudd, G. Zhang, A. Ibrahim, Q. Xue, R. Devkota, Sh. Chao, G. Bai, S. Haley, **J. Chen**, CT. Tan, M. Fuentealba. 2014. Identifying SNP Markers Linked to QTL for Drought Tolerance and *Wsm2* in Hard Red Winter Wheat and Introgression of Drought Tolerance QTL into *Ug99* Resistant Spring Wheat Cultivars for African Countries. Poster presentation at 2014 ASA, CSSA and SSSA Int'l Annual meeting, Long Beach, CA, Nov.1-5.
- *Nayak, S., Y. Wang, W. Zhao, B. Bowman, J. Wheeler, and **J. Chen**. 2014. QTL Conferring Type II Resistance to Fusarium Head Blight in Adapted Wheat Cultivar 'UI Stone' and Its Effect on Yield. Poster presentation at Annual FHB Forum, St. Louis, MS, Dec. 7 -9, 2014
- *Bowman, B., J. Zhang, J. M. Bonman², H. Bockelman², J. Wheeler¹, and **J. Chen**. 2014. Analysis of Yield and Drought Tolerance in a Diverse Panel of Spring Wheat (*T. aestivum* L.) Genotypes. Poster presentation at Annual TCAP meeting, San Diego, California, Jan. 11 - 12, 2014.
- Wang, Y., **J. Chen**, J. Zhang, B. Bowman, J. Wheeler, W. Zhao, S. Nayak, H. Bockelman, and J. Bonman. 2014. Evaluation of Grain Yield and Nitrogen Use efficiency of Spring Barley Accessions in Water Stress and Nitrogen Deficient Environments. Poster presentation at Annual TCAP meeting, San Diego, California, Jan. 11 - 12, 2014.

- Zhang, J., **J. Chen**, Ch. Chu, W. Zhao, J. Wheeler, E. Souza, and R. Zemetra. 2013. Genetic dissecting of QTL associated with grain yield in diverse environments. Poster presentation and abstract in the proceedings of ASA, CSSA and SSSA Int'l Annual meeting, Tampa, FL, Nov. 3 - 6.
- *Bowman, B., J. Zhang, J. M. Bonman², H. Bockelman², N. Heslot³, M.E. Sorrells³, J. Wheeler¹, and **J. Chen**. 2013. Canopy Spectral Reflectance as an Indicator of Yields in a Diverse Panel of Spring Wheat (*T. aestivum* L.) Genotypes. Poster presentation at Annual TCAP meeting, San Diego, California, Jan. 11 - 13, 2013.
- Wang, Y., **J. Chen**, J. Zhang, B. Bowman, J. Wheeler, W. Zhao, S. Nayak, H. Bockelman, and J. Bonman. 2013. Evaluation of Spring Barley Accessions in Water Stress and Nitrogen Deficiency Environments. Poster presentation at Annual TCAP meeting, San Diego, California, Jan. 11 - 13, 2013.
- *Zhang, J., **J. Chen**, J., Y. Wang, B. Bonman, J. Wheeler, W. Zhao, K. O'Brien, J.M. Marshall, H. Bockelman, and J. Bonman. 2012. Association mapping of low falling number in hard white spring wheat collection materials. Poster presentation and abstract in the proceedings of 2012 ASA, CSSA and SSSA Int'l Annual meeting, Cincinnati, OH, Oct.21-24.
- *Bowman, B., **J. Chen**, J. Zhang, J. Wheeler, M.J. Bonman, H. Bockelman, E. Jackson, Sh. Chao, N. Heslot, and M. E. Sorrells. 2012. Mining High Water and Nitrogen Use Efficient Wheat (*T. aestivum* L.) Genotypes in the USDA-ARS National Small Grains Collection. Poster presentation and abstract in the proceedings of 2012 International Plant and Animal Genome meeting, San Diego, California, Jan. 14 - 18, 2012.
- *Zhang, J., **J. Chen**, W. Zhao, J. Wheeler, E. Souza, and R. Zemetra. 2012. Quantitative Trait Loci Associated with Canopy Temperature, Chlorophyll Content Index, and Flag Leaf Senescence in a Recombinant Inbred line Population of Winter Wheat (*Triticum aestivum* L.). Poster presentation and abstract in the proceedings of 2012 International Plant and Animal Genome meeting, San Diego, California, Jan. 14 - 18, 2011.
- N.A. Bosque-Pérez, **J. Chen**, L.M. Unger, D.R. See, S. Odubiyi, and J. Wheeler. 2012. Marker-assisted breeding for Hessian fly and disease resistance in spring wheat. Poster presentation and abstract in the proceedings of the 20th Biennial International Plant Resistance to Insects Workshop. Minneapolis, Minnesota, April 1-4, 2012.
- N.A. Bosque-Pérez, J. Chen, L.M. Unger, D.R. See, S. Odubiyi, and J. Wheeler. 2012. Marker-assisted breeding for Hessian fly and disease resistance in spring wheat. Poster presentation and abstract in the proceedings of Entomological Society of America Pacific Branch Annual Meeting. Portland, Oregon, March 25-28, 2012.
- *Zhang, J., **J. Chen**, Ch. Chu, P. Li, W. Zhao, J. Clayton, J. Wheeler, E. Souza, and R. Zemetra. 2011. QTL analysis in a RIL population indicated effects of increasing wheat grain yield through coordinated improvements on yield-related traits. Poster presentation and abstract in the proceedings of 2011 NAPB (National association of plant breeders), annual conference, College Station, TX, May23-25, 2011
- *Li, P., **J. Chen**, J. Wheeler, and P. Wu. 2010. Effect of Water Stress on Grain Yield and Three Physiological Traits in Thirty Spring Wheat Genotypes. Poster presentation and abstract in the proceedings of Plant Breeding for Drought Tolerance, Fort Collins, CO, June 24 - 25, 2010.
- *Zhang, J., **J. Chen**, P. Li, W. Zhao, E. Souza, and R. Zemetra. 2010. Quantitative trait loci for grain yield in a recombination inbred line population of wheat (*Triticum aestivum* L.). Poster presentation and abstract in the proceedings of Plant Breeding for Drought Tolerance, Fort Collins, CO, June 24-25, 2010.
- Chen, J.**, E. Souza, X. Chen, M. Guttieri, Ch. Chu, S. Xu, D. Hole, and R. Zemetra. 2010. Quantitative trait loci for high-temperature adult-plant resistance to stripe rust (*Puccinia striiformis* f. sp. *tritici*) in a hard red winter wheat germplasm IDO444. Poster presentation and abstract in the proceedings of 2010 International Plant and Animal Genome meeting, San Diego, California, Jan. 10 - 13, 2010.
- *Zhang, J., P. Li, W. Zhao, Ch. Chu, E. Souza, and Robert Zemetra, and **J. Chen**. 2010. Identifying quantitative trait loci for canopy temperature, chlorophyll content, and grain yield in a recombination inbred line population of wheat (*Triticum aestivum* L.). Poster presentation and abstract in the proceedings of 2010 International Plant and Animal Genome meeting, San Diego, California, Jan. 10 - 13, 2010.
- Hu, G., **J. Chen**, Y. Wu, and Ch. Chu. 2010. Genetic mapping of thirteen drought tolerance candidate genes in wheat (*T. aestivum*). Poster presentation and abstract in the proceedings of 2010 International Plant and Animal Genome meeting, San Diego, California, Jan. 10 - 13, 2010.
- Liu, Sh., M.D. Hall, C.A. Griffey, A.L. McKendry, **J. Chen**, G. Brown-Guedira, J.P. Murphy and D. Van

- Sanford. 2009. Identification of diagnostic markers for scab resistance in US wheat cultivars. Poster presentation and abstract in the proceedings of International Annual Meeting of ASA-CSSA-SSA. Pittsburg, PA. November, 1-5, 2009.
- Liu, Sh., M. Hall, C. Griffey, A. McKendry, **J. Chen**, W. Brooks, G. Brown-Gudeara, and D. Van Sanford. 2009. Saturation Mapping of QTL for Scab Resistance in a Virginia Native Source 'Massey'. Poster presentation and abstract in the proceedings of 2009 National FHB Forum, Orlando, Florida, 7-9 December.
- Chen, J.**, K.M. O'Brien, M.J. Guttieri, K. Peterson, and E.J. Souza. 2008. Evaluation of End-use Quality in Bread Wheat Using a Recombination Inbred Line Population. Poster presentation and abstract in the proceedings of AACC international annual meeting, Honolulu, Hawaii, Sep. 21-24, 2008.
- Chen, J.**, C.A. Griffey, Sh. Chao, and G. Brown-Guedira. 2008. Validation of Six QTL Associated with Fusarium Head Blight Resistance in Adapted Soft Red Winter Wheat. Poster presentation and abstract in the proceedings of 2008 International Plant and Animal Genome XVI Conference, Town & Country Convention Center, San Diego, California, Jan. 12-16, 2008.
- Chen, J.**, C. Hollingsworth, L. Talbert, D. See, J. Marshall, R. Zemetra, and C. Griffey. 2008. Marker-assisted evaluation of FHB resistance in Pacific Northwest Wheat Genotypes. Poster presentation and abstract in the proceedings of 2008 National Fusarium Head Blight Forum, Indianapolis, Indiana, Dec. 4-6, 2008.
- Liu, Sh., C.A. Griffey, **J. Chen**, A.L. McKendry, C.H. Sneller, P. Murphy, and G. Brown-Guedira. 2008. Breeding and genomics of Fusarium head blight in soft red winter wheat: research progress and ongoing projects. Poster presentation and abstract in the proceedings of 2008 Joint Annual Meeting, Houston, Texas, Oct.5-9.
- Bosque-Pérez, N.A., D.J. Schotzko, **J. Chen**, D.R. See, E.J. Souza, J. Hansen, and R.S. Zemetra. 2008. Marker-assisted selection for resistance to Hessian fly in spring wheat. Poster presentation and abstract in the proceedings of the Eighteen Biennial International Plant Resistance to Insects Workshop, Fort Collins, Colorado, February 10-13, 2008.
- Chen, J.**, J. Windes, R. Zemetra, and C.A. Griffey. 2007. Haplotyping of Known FHB Resistance QTL in Pacific Northwest Wheat Genotypes. Poster presentation and abstract in the proceedings of 2007 National Fusarium Head Blight Forum, Kansas City, Missouri, Dec.2-4, 2007.
- Liu, Sh., C.A. Griffey, **J. Chen**, and G. Brown-Guedira. 2007. Pyramiding FHB Resistance QTL using Marker-Assisted Selection in Wheat. Poster presentation and abstract in the proceedings of 2007 National Fusarium Head Blight Forum, Kansas City, Missouri, Dec.2-4, 2007.
- Schotzko, D.J., N.A. Bosque-Pérez, E.J. Souza, **J. Chen**, M.J. Guttieri, T. Koehler, and R.S. Zemetra. 2007. Screening spring wheat for resistance to Hessian fly in northern Idaho. Poster presentation and abstract in the proceedings of Entomological Society of America Annual Meeting, San Diego, California, December 9-13, 2007.
- Chen, J.**, J. Fanelli, C. A. Griffey, J. Paling, M.A. Saghai Maroof, and Gina Brown-Guedira. 2006. Progress in Development and MAS of FHB Resistant Wheat Cultivars and Germplasm at Virginia Tech. *P.* 91. Poster presentation and abstract in the proceedings of 2006 National Fusarium Head blight Forum. Dec. 10-12. Sheraton Imperial Hotel, Research Triangle Park, North Carolina. USA.
- Chen, J.**, C. A. Griffey, M.A. Saghai Maroof, J. Fanelli, J. Wilson, T. Pridgen, J. Paling, and D. Nabati. 2006. Validation and Marker-Assisted Selection of Two Major QTL Conditioning Fusarium Head Blight Resistance in Wheat. *P.* 189. Poster presentation and abstract in the proceedings of the International Conference on the Status of Plant & Animal Genome Research. Jan. 14-18, 2006. Town & Country Hotel, San Diego, CA, USA.
- Chen, J.**, C. A. Griffey, M.A. Saghai Maroof. 2005. Prospect for Introgression of Fusarium Head Blight Resistance QTLs into Soft Red Winter Wheat. *P.* 158. Poster presentation and abstract in the proceedings of the International Conference on the Status of Plant & Animal Genome Research. Jan. 15-19, 2005. Town & Country Hotel, San Diego, CA, USA.
- Chen, J.**, C. A. Griffey, M.A. Saghai Maroof, J. Fanelli, J. Wilson, T. Pridgen, J. Paling, D. Nabati, and W. Brooks. 2005. Haplotype Selection of Two Major QTL for Improved Fusarium Head Blight Resistance in Elite Wheat Backgrounds. *P.* 23. Poster presentation and abstract in the proceedings of the 2005 National Fusarium Head blight Forum. Dec. 11-13, 2005. Hilton Milwaukee City Center, Milwaukee, Wisconsin. USA.
- Chen, J.**, C. A. Griffey, M.A. Saghai Maroof, J. Wilson, D. Nabati, and T. Pridgen. 2004. Haplotyping of Unique Near Isogenic Lines for Resistance to *Fusarium* Head Blight in Common Wheat. *P.* 31. Poster presentation and abstract in the proceedings of 2nd International Symposium on Fusarium Head Blight Incorporating the 8th European Fusarium Seminar. Dec. 11-15, 2004. Wyndham Orlando

- Resort, Orlando, FL, USA. (Abstract).
- Griffey, C.A., **J. Chen**, J. A. Wilson, J. Shaw, D. Nabati, M.R. Chappell and T. Pridgen. 2004. *Fusarium* Head Blight Resistance Incorporated into Soft Red Winter Wheat. *P.* 70. Poster presentation and abstract in the proceedings of 2nd International Symposium on Fusarium Head Blight Incorporating the 8th European Fusarium Seminar. Dec. 11-15, 2004. Wyndham Orlando Resort, Orlando, FL, USA. (Abstract).
- Chen, J.**, C.A. Griffey, and M.A. Saghai Maroof. 2003. QTL Mapping and SSR Genotyping of Fusarium Head Blight Resistance in Virginia Tech Wheat Breeding Program. *P.* 172. Poster presentation and abstract in the proceedings of the International Conference on the Status of Plant & Animal Genome Research. Jan. 11-15, 2003. Town & Country Hotel, San Diego, CA. USA.
- Chen, J.**, C. A. Griffey, R. M. Biyashev, M.A. Saghai Maroof. 2003. QTL Mapping and Marker Assisted Selection of *Fusarium* Head Blight Resistance in Wheat. Poster presentation and abstract in the proceedings of the 1st Central Asian Wheat Conference. June 9-13, 2003. Alma-Ata, Kazakhstan.
- Wilson, J.A., C.A. Griffey, **J. Chen**, D. Nabati, and T. Pridgen. 2003. Success of Alternative Breeding Methods in Transferring Fusarium Head Blight Resistance to Soft Red Winter Wheat. *P.* 295-299. Poster presentation and abstract in the proceedings of 2003 National Fusarium Head Blight Forum Proceedings. Dec. 13-15, 2003. Bloomington, MN, USA.
- Chen, J.**, C.A. Griffey, and M.A. Saghai Maroof. 2002. QTL Mapping and SSR Genotyping of Fusarium Head Blight Resistance in Virginia Tech Wheat Breeding Program. *P.* 26. Poster presentation and abstract in the proceedings of 2002 National Fusarium Head Blight Forum. Dec. 7-9, 2002. Holiday Inn Cincinnati-airport, Erlanger, KY, USA.
- Chen J.**, C.A. Griffey and Saghai M.A. Maroof. 2001a. Heredity and Molecular Markers for Wheat Scab Resistance. *P.* 10-13. Poster presentation and abstract in the proceedings of 2001 National Fusarium Head Blight Forum. Dec. 8-10. Holiday Inn Cincinnati-airport, Erlanger, KY, USA.
- Chen, J.**, C.A. Griffey, M. Chappell. 2001b. Efficacy of Haploid Production in Common Wheat. Poster presentation and abstract in the proceedings of 2001 Southern Grain Workers Conference. Griffin, GA, USA.
- Griffey, C.A., J. Wilson, D. Nabati, **J. Chen**, T. Pridgen, W. Rohrer, and B. Robinson. 2001. Selective Breeding for Fusarium Head Blight Resistance in Soft Red Winter Wheat. *P.* 235-236. Poster presentation and abstract in the proceedings of 2001 National Fusarium Head Blight Forum. Dec. 8-10. Holiday Inn Cincinnati-airport, Erlanger, KY, USA.
- Chen J.**, C.A. Griffey, T. Pridgen, M. Chappell, J. Shaw. 2000a. Characterization of Scab (*Fusarium*) Resistance in Wheat. *P.* 91. Poster presentation and abstract in the proceedings of the 3rd International Crop Science Congress. August 17-22. CCH Congress Centrum, Hamburg, Germany.
- Chen J.**, C.A. Griffey, M.A. Saghai Maroof, W. Zhao, W. Xie, T. Prigden and R. M. Biyashev. 2000b. Genetic Analysis of Resistance to Fusarium Head Blight in Common Wheat. *P.* 19-24. Poster presentation and abstract in the proceedings of 2000 National Fusarium Head Blight Forum. Dec. 10-12. Holiday Inn Cincinnati-airport, Erlanger, KY, USA.
- Chappell M., C. Griffey, **J. Chen**, T. Pridgen, D. Nabati, W. Zhao, and M. Vaughn. 2000. Assessment and Reaction of *Triticum aestivum* Genotypes to *Fusarium graminearum* and Its Effects on Traits Related to Grain Yield and Quality. *P.* 246-250. Poster presentation and abstract in the proceedings of 2000 National Fusarium Head Blight Forum. December 10-12. Holiday Inn Cincinnati-Airport, Erlanger, KY, USA.
- Chen J.** and C.A. Griffey. 1999. Haploid Production in Twelve Wheat F₁ by Wheat x Maize Hybridization Method. Poster presentation and abstract in the proceedings of 1999 Eastern & Southern Wheat Workers Conference. 2-4 May, Williamsburg, Virginia.
- Griffey C.A. and **J. Chen**. 1999. Research on *Fusarium* Head Blight in the Virginia Tech Small Grains Program. *In:* Proceeding of 1999 Eastern & Southern Wheat Workers Conference. 2-4 May, Williamsburg, Virginia.
- Griffey C.A., **J. Chen** and T. Pridgen. 1998. Assessment and Selection of Scab Resistance in Soft Winter Wheat. Vol. 3: 273-275. Poster presentation and abstract in the proceedings of Ninth International Wheat Genetics Symposium, University of Saskatchewan, Saskatoon, Canada, 1998.8.
- Chen J.**, X.Z. Xue, D. Cai, K.B. Jenssen and N.J. Chatterton. 1998. Development and Characterization of *Elymus rectisetus* Species and Accession-specific RAPD Markers. Vol. 3: 98-101. Poster presentation and abstract in the proceedings of Ninth International Wheat Genetics Symposium, University of Saskatchewan, Saskatoon, Canada, 1998.8.

Other Creative Activities:**UI Wheat Breeding and Genetics Program Webpage:**

<http://www.cals.uidaho.edu/aberndeen/wheat/toppage1.htm>

Research Progress Report

- Chen, J., R. Wang, D. Fu. Cloning yield components QTL in spring wheat. USDA-ARS NIFA IWYP-Wheat CAP, Jan. Apr. Aug. 2017-2018.
- Chen, J. Developing FHB resistant wheat cultivars for Idaho and the Western US. USWBSI, 2014-2018.
- Chen, J. Marker assisted breeding of fusarium head blight resistance in wheat. AD-421 Hatch report, 2008 – 2018
- Chen, J. Developing wheat cultivars for Idaho and world markets, IWC progress report, 2007 – 2018
- Chen, J. QTL mapping of grain Cadmium content in spring wheat, IWC progress report, 2017-2018
- Chen, J. Developing low cadmium content wheat cultivars, Ardent Flour Mill, 2015 - 2018
- Chen, J. WERA-1009 report and variety update, PNW Wheat Quality Council 2008 - 2016
- Chen, J. Developing ClearField wheat varieties, BASF annual report, 2007 – 2016
- Chen, J. Phenotyping of NSGC, USDA SCA Report, 2011 - 2015
- Chen, J. Improving barley and wheat germplasm for changing environments, TCAP annual report, 2011 - 2015
- Chen, J. Digging the genetic factors underlying late maturity α -amylase (LMA) in wheat, IWC progress report, 2013 - 2015
- Chen, J. Marker-assisted breeding of fusarium head blight resistance in wheat, IWC progress report, 2010 - 2011
- Chen, J. Genomics-accelerated breeding for abiotic resistance in wheat, IWC progress report, 2010
- Chen, J. Bring marker to the wheat field, WheatCAP annual report, 2008 - 2010
- Chen, J. Sourcing white wheat for Kraft end use products, report to Kraft, 2008

Professional development (meetings attended, and training received)

- Map-based gene cloning workshop organized by the WheatCAP in UC Davis, Jan. 2018
- International Plant and Animal Genome meeting, San Diego, Jan. 2016-2019
- Western Wheat Workers meeting, different locations, 2007 – 2018
- Tri-State Grower Conference, different locations, 2009, 2011-2016
- NWIC Congress Visit, Washington DC., March, 2015, 2016, 2017
- WSCIA Breeder Meeting, different locations, 2011-17
- Durable resistance to rust in wheat, St. Paul, MN in Oct., 2016
- USDA-NIFA grant planning meeting, San Diego, Jan. 10, 2016
- High throughput genotyping, Spokane, WA, Nov. 9 – 10, 2015
- California Quality meeting, Davis, CA, Nov.13, 2015
- Whole grain summit, Portland, OR, June, 2015
- Cereal POD meeting, Boise, ID, Apr. 2, 2015
- ASA and CSSA annual meeting, Long Beach, CA, Nov. 1 -5, 2014
- PNW WQC, different locations, 2008 – 2016
- Great Plain WQC, Kansas City, MO, Feb. 18-20, 2014
- BGRI 2011 Technical Workshop, St. Paul, Minnesota, June, 2011
- Cereal Topic Team meeting, Spokane, WA, 2011, 2012, 2013
- WA Foundation Seeds Association, different locations, 2011-2015

Patents and Cultivar Releases:**Since 2007**

- UI Cataldo Soft White Spring Wheat, 2008
- UI Winchester Hard Red Spring Wheat, 2009
- VA04W433 and VA04W-474 Soft Red Winter Wheat Germplasm, 2009
- UICF-Grace Hard White ClearField Winter Wheat, 2009, PVP filed in 2010 (20100086)
- UI Silver Hard White Winter Wheat, 2009, PVP filed in 2013 (201400011)
- UI SRG Hard Red Common Winter Wheat, 2010

UI Stone Soft White Common Spring Wheat, 2012, PVP filed in 2013 (201300342)
 UI Platinum Hard White Spring Wheat, 2014, PVP filed in 2014 (201400419)
 UI Sparrow Soft White Winter Wheat, 2016, PVP filed in 2017 (201700189)

Before 2007

VA00W-526 Wheat, 05-032
 VA02W-555 Wheat, 07-006
 VA02W-370 Jamestown Wheat, 07-007
 VA03W409 Shirley Wheat, 08-061
 VA01W-205 FFR 5205 Wheat, 08-062
 VA04W-90 Soft Red Winter Wheat, 09-100

Grants and Contracts Awarded: Sole spending authority (SA) \$2,512,908 since 2014

Competitive: SA \$729,774 since 2014

- J. Dubcovsky, J. Chen et al. “Validation, characterization and deployment of QTL for grain yield components in wheat” sponsored by USDA-NIFA-IWYP, 10M. SA \$214,302 (01/01/2017 – 12/31/2021).
- J. Chen. “Developing FHB resistant wheat cultivars for Idaho and the Western US” sponsored by USWBSI. SA \$187,090 (05/01/14-06/30/20).
- J. Chen, J. Marshall, and D. Fu. “Finding solutions to low falling number wheat in Idaho” sponsored by USDA-ARS NACA, \$150,000. SA \$50,000 (07/01/18 – 06/30/2020).
- D. Strawn, J. Chen, X. Liang. Integration of variety selection and soil properties to reduce cadmium in wheat grain. USDA-NIFA, \$200,000. SA \$10,000 (07/01/19 – 06/30/21).
- J. Dubcovsky, J. Chen et al. “Improving barley and wheat germplasm for changing environments” sponsored by USDA-NIFA, Federal, 25M. SA \$510,495 (02/01/2011 – 12/31/2016).
- J. Chen. “Phenotyping of NSGC” sponsored by USDA-ARS ATCA, \$246,625. SA \$246,625 (02/01/2011 – 12/31/2015).
- J. Chen, R. Zemetra, and D. Hole. “Developing the Next Generation of Neoclassical Plant Breeders” sponsored by USDA-NIFA, Federal, \$249,000. SA \$80,000 (01/15/11 – 01/14/16).

Idaho Wheat Commission: SA \$1,418,369 since 2014

- J. Chen, R. Wang, and S. Hunter. “Breeding durable, high level, dwarf bunt resistance using molecular-marker assisted selection”, \$106,588. SA \$86,182 (07/01/18 – 06/30/20)
- J. Chen. “Developing wheat cultivars for Idaho” sponsored by Idaho Wheat Commission, \$885,789. SA \$885,789 (07/01/14 – 06/30/20).
- J. Chen. “Characterizing the cause effect for low falling number hard white spring wheat” sponsored by Idaho Wheat Commission, \$191,218. SA \$191,218 (07/01/17 – 06/30/20).
- J. Chen. “Digging the genetic factors underlying late maturity α -amylase (LMA) in wheat” sponsored by Idaho Wheat Commission, \$51,503. SA \$44,023 (07/01/14 – 06/30/16).
- D. Strawn, X. Liang, J. Chen, P. McDaniel, and J. Marshall. “Agronomic and genetic factors affecting cadmium uptake by wheat from Idaho soils” sponsored by Idaho Wheat Commission. \$264,105. SA \$103,657 (07/01/14 – 06/30/20).
- J. Chen. “GPS system” and “Real-time PCR” sponsored by Idaho Wheat Commission, \$67,500. SA \$67,500 (07/01/17 – 06/30/18).
- J. Chen. “Mini tractor and rototiller” sponsored by Idaho Wheat Commission, \$10,000. SA \$10,000 (07/01/16 – 06/30/17).
- J. Chen. “Aberdeen Plot Combine Upgrade” sponsored by Idaho Wheat Commission, \$100,000. SA \$30,000 (07/01/15 – 06/30/16).

Industry: SA \$136,000 since 2014

- J. Chen, D. Strawn, P. McDaniel, and J. Marshall. “Field-based study of factors affecting cadmium uptake by wheat from Idaho soils” sponsored by Ardent Flour Mill and Nestle. \$150,000. SA \$71,000 (07/01/15 – 06/30/19).
- J. Chen. “Evaluation of drought tolerance in spring wheat”, sponsored by KeyGene. SA \$28,000 (04/01 – 12/31/17).
- J. Chen. “Development of Imazamox resistant winter cultivars” sponsored by BASF. SA \$37,000

(1/01/14 – 12/31/16).

Honors and Awards:

Science Award, Idaho Grain Producer Association, 2018
 UI President's Mid-Career Award, University of Idaho, 2018
 USDA Certificate of Appreciation, outstanding service as a member of the Plant Variety Protection Board from 2015-2017, 2017
 First Place Outstanding Papers, CSSA Plant Genetic Resource, 2016
 USDA-NIFA panelist, Biology of Agricultural Plants, 2011 and 2015
 Aberdeen Wheat Breeding Professorship, Idaho Wheat Commission Endowment, 2013-current
 Award of Excellence, Western Association of Agricultural Experiment Station Directors, 2012
 Dr. Richard C. Heimsch Outstanding Research Award, Gamma Sigma Delta Awards Committee and College of Agricultural and Life Sciences, 2011
 Third Prize of National Invention, Chinese Academy of Agricultural Sciences, 1998
 First Progressive Prize of Sciences & Tech., Science & Technology Committee of Shaanxi, 1992

OUTREACH AND EXTENSION

Extension publication:

Chen, J., J. Wheeler, W. Zhao, and J.M. Marshall. 2011. Evaluation of resistance to Fusarium head blight in fifty spring wheat cultivars and advanced lines grown in Pacific Northwest. 2011 Small Grains Report, Southcentral and Southeast Idaho Cereals Research and Extension Program, Idaho Agricultural Experiment Station, UI Research Bulletin 180: 108-115.
 Marshall, K. Bissonnette, and J. Chen. 2012. The re-emergence of Fusarium Head Blight in Idaho. UI Extension Publication,
 Chen, J. 2012. Evaluation of water and nitrogen use efficiency in materials from NSGC. Triticeae CAP Newsletter.

Scholarly Presentations

Chen, J. QTL mapping of grain Cadmium content. Invited talk by Ardent Flour Mills. Boise, ID. June 6, 2019.
 Chen, J. Developing Wheat Cultivars for Idaho and World Markets, IWC research review, Boise, ID, Feb. 2008 – 2019.
 Chen, J. Variety development and QTL mapping of low falling number wheat. IWC research review, Boise, ID, Feb. 2016 – 2019.
 Chen, J. Developing multiple, high-level dwarf bunt resistance using molecular marker assisted selection. IWC research review, Boise, ID, Feb. 2018 - 2019.
 Chen, J. Breeding for ultra-low Cadmium and desirable SRC wheat. Invited talk by Ardent Flour Mills. Denver, Co. July 23, 2018.
 Chen, J. Genetic responses to LMA and PHS. Invited talk to IWC-UI Falling number symposium. Spokane, Nov. 27, 2017.
 Chen, J. Breeding for ultra-low Cadmium wheat. Invited talk by Ardent Flour Mills. Boise, ID, May 16, 2017
 Chen, J. Characterization of the genetics and genomics of LMA. Invited talk to Tri-state Falling number summit. Spokane, ID. Feb. 15, 2017
 Chen, J. Variety update. Invited oral talk to Washington Crop Improvement Association, varied locations, Nov. 2013 – 2018.
 Chen, J. Breeding for ultra-low Cadmium wheat. Invited talk by Ardent Flour Mills. Boise, ID, Apr. 5, 2016
 Chen, J. Breeding for ultra-low Cadmium wheat. Invited talk by Ardent Flour Mills. Boise, ID, Apr. 2, 2015
 Chen, J. Variety development pipeline. Invited oral talk to Idaho Wheat Commissioners, Boise, ID, Oct. 2015
 Chen, J. Evaluation of WUE and NUE in Materials from NSGC. TCAP annual meeting. San Diego, Jan. 2011 – 2015

- Chen, J. Digging the genetic factors underlying late maturity α -amylase (LMA) in wheat, IWC research Review, Boise, ID, 2012- 2015
- Chen, J. University of Idaho Hard White Breeding Program Update. Invited talk to Japanese trade team. Boise, Sep. 2015.
- Chen, J. Development of low cadmium content wheat. Invited talk to Ardent Flour Mill representatives, Boise, ID, April, 2015.
- Chen, J. How much moisture is too much? Invited seminar to grain elevator managers, Wheat Quality Workshop, Aberdeen, ID. March 18, 2015.
- Chen, J. Idaho Wheat Overview and University of Idaho Hard White Breeding Program Update. Invited talk to China Trade Team, Idaho Falls, ID. July 21, 2014.
- Chen, J. Idaho Hard White Update. Invited talk to USW and NAWG, Washington D. C. DC, Jan.28-Feb.1, 2014.
- Chen, J. Integrated wheat breeding and genetics program at University of Idaho. Invited talk at 2013 Yangling International Agri-science Forum. Yangling, Shaanxi, P.R. China. Nov. 7 - 9, 2013.
- Chen, J. Wheat variety development and production in Idaho. Invited talks by the Center of Agriculture and Technology Development. Boji, Shaanxi, P.R.China. Oct. 28- Nov.6, 2013.
- Chen, J. Towards better understanding of low falling number issue of spring wheat. Gave talk to PNW meeting. Jan. 2013.
- Chen, J. UI hard white wheat program update. Gave a talk to Dr. Glen Weaver from ConAgra and IWC Aberdeen, Oct. 2012.
- Chen, J. UI hard white wheat program update. Gave a talk to Taiwan Trade Team. Idaho Falls, July, 2012.
- Chen, J. FHB resistance in PNW spring wheat. Cereal school at Pocatello, Burley, and Idaho Falls, Feb. 2012.
- Chen, J. Aberdeen Wheat Breeding and Genetics Program Update. Power county grower's association meeting. Fairview Inn, America Falls, 2008 - 2015
- Chen, J. and D. Hole. TCAP project update presented to Northwest A & F University delegation from China, USU, Mar, 2011
- Chen, J. Why you choose plant breeding for our career? Seminar given to summer students at UI and ARS. Aberdeen, July, 2010
- Gary Hagen and Craig Bohach. FY2010 UI Vandalathon with UI Leadership and congressional staffers. Feb. 2010, Moscow. Provided slides for Administrators
- Chen, J. Breeding for drought tolerance in the University of Idaho Wheat breeding and Genetics Program. Plant Breeding Network. Invited seminar, TCAP online seminar series. Nov. 2012
- Chen, J. Breeding for drought tolerance in common wheat. Invited seminar by College of Agriculture, Northwest A&F University, Yangling, Shaanxi, P.R. China. May, 2012.
- Chen, J. Marker-assisted breeding of fusarium head blight resistance in wheat, Boise, ID, 2010 - 2011
- Chen, J. Zhang, P. Li, J. Wheeler, W. Zhao, J. Clayton, B. Bowman, G. Hu, H. Bockelman, and J. Bonman. Evaluation of drought tolerance in wheat. Western Wheat Workers meeting, Idaho Falls, ID, July, 2011
- Chen, J. Genomics-Accelerated Breeding for Abiotic Resistance in Wheat, Boise, ID, 2010
- Chen, J. What do you have in your daily food table? – A story of wheat. Invited seminar, UI-ARS seminar series, Aberdeen, ID, July 2010.
- Chen, J. Molecular breeding for biotic and abiotic resistances in wheat. Invited seminar, College of Agriculture, Northwest A&F University, Yangling, Shaanxi, P.R. China. Sep. 2010.
- Chen, J. Job Fair for middle school students, Oct, 2009, America Falls, ID
- Chen, J. Breeding for end-use quality, presented to Kraft team, Oct. 2009, Aberdeen, ID
- Chen, J. Overview of UI wheat breeding program, presented to Dana Peterson, policy specialist from Kansas Commission, Blaine and Hans from IWC. Oct. 2009, Aberdeen, ID
- Chen, J. Overview of Idaho Wheat Breeding Program. Presented to wheat growers at Wheat Marketing Center (WMC), Portland, OR, Jan, 2009
- Chen, J. Is wheat breeding interesting to you. Invited seminar, UI-ARS seminar series, Aberdeen, ID. July 2009.
- Chen, J. Breeding for desirable end-use quality. Presented to cooperators from Oversea customers, Moscow, ID, June, 2008
- Chen, J. Wheat varieties and their end-use quality. Gave talk to Pendleton Mills, Sep. 2008
- Chen, J. Developing hard white wheat. Gave a talk to Taiwan Trade Team. Oct. 2008, Boise, ID

Chen, J. Wheat breeding program update. Invited seminar, UI-ARS seminar series, Aberdeen, ID. Nov. 2008.

Chen, J. Development of an accelerated wheat breeding program for Idaho and Pacific Northwest. Invited seminar, Depart. of PSC, Utah State University, Logan, UT. Oct. 2007

Field presentations

Parma Field day, 2019

Hard white wheat field day in various locations, 2016 - 2019

UI-LCS field day, Update of variety development, 2012 - 2018

Aberdeen field day, 2007, 2008, 2009, 2011, 2013, 2015, 2016, 2017, 2018, 2019

Rockland and Arbon field days, Update of variety development, 2008 - 2019

Aberdeen field tours to people from IWC and industry, 2008 - 2019

General Mill field day, 2011, 2012, 2013, 2014

Field tour to a Chinese delegation in Aberdeen, Evaluation and selection of Dwarf bunt lines, Aug. 28, 2011

Field tour for an Ethiopia Team, Variety development and research update, August 19, 2011

Field tour for Western Wheat Workers meeting, Variety development and research update, 2007, 2011

Field tour for Ethiopians, Morrell Financial Stewardship, and Morrell Agro-Industries, Development

PLC in Utah, Variety development and research update, July 16, 2009

Lab tour for Mexican miller team, Breeding for end-use quality, Oct. 2009

Kimberly field day, Update of variety development July 22, 2008

Moscow field day, Update of variety development June 16, 2007

Burley field day, Update of variety development June 22, 2007

Public-industry interaction:

UI and IWC research and marketing development

UI, Ardent, Nestle, IWC research collaboration, 2015 – present, \$30,000 each year

Research development with Keygene, 2017, \$28,000

MTA development with Monsanto

MTA development with K2

MTA development with KHW

MTA development with BASF

MTA development with Dow AgroSci

UI-LCS Agreement and MTA development with LCS

MTA development with Bayer AgroSci

Research development with Nabisco

Research development with Syngenta

Research development with Sun Grain

Research development with Ardent Flour Mills

Research development with Thresher

Research development with GrainKraft

Trade Journals, popular press and newspaper articles:

Idaho Grain Magazine, 2012 spring issue. Evaluation of FHB resistance in PNW spring wheat lines.

Idaho Grain Magazine, 2011 spring issue. Building better wheat.

Idaho Grain Magazine, 2011 summer issue. Idaho wheat breeder to survey gene bank.

Idaho Grain Magazine, 2010 summer issue. Hard white wheat shifts to winter.

Idaho Grain Magazine, 2010 summer issue. Local quest for resistance to fusarium head blight.

Idaho Grain Magazine, 2007 fall issue. Idaho's newest wheat breeder brings needed experience.

Ag News, 2010. UI Releases two new hard white winter wheats.

Aginfo.net, 2010. Some new hard white winter wheats.

Programs & People. 2010. What's next? Hard whites and other 21 century priorities.

Farmer-Stockman. 2009. Idaho's Big Wheat Push.

PROFESSIONAL DEVELOPMENT: (workshops and seminars attended)

Scholarship and teaching:

Women luncheon at ASA and CSSA meetings, 2009 -2012, 2019
 UI online training certificates, 2016, 2017, 2018, 2019
 USDA-NIFA WheatCAP training workshop on gene cloning, Jan. 7 – 13, UCD, 2018
 USDA-NIFA WheatCAP online seminar series, Fall, 2018
 UI Extension meeting, Moscow, Apr. 2013, Apr. 2018
 CALS award reception, Moscow, Apr.2013, Apr. 2018
 PLS meeting, monthly, 2018
 PSES meeting, Boise, 2014; Boise, 2015; Twin Falls, 2016; Boise, 2017
 Plant Breeding Training Network, seminar series once a week offered by TCAP, 2011 - 2016
 T3 Toolbox data base development, once a month offered by TCAP, 2011 - 2016
 Celebration of Agriculture, Moscow, Apr.2014
 Association mapping class online offered by TCAP, Oct. to Dec., 2012
 BGRI 2011 Technical Workshop, June, 2011, St. Paul, Minnesota
 Taiwan Goodwill Mission Banquet, Oct. 2011
 PAID UI Career development workshop, 2010, 2011, 2012, Moscow, ID
 USDA-CRRESE Grantsmanship Workshop, Mar. 2009, Las Vegas
 COS database training by Sara from OSP, Aug. 2009, Aberdeen
 JMP genomic training, Oct. 2009, Aberdeen
 USDA-CRRESE Grantsmanship Workshop, Oct. 2008, Salt Lake

SERVICE:

Major Committee Assignments:

International

Local Organizing Committee for XX International Smut Meeting, Logan, UT, May 2018

National:

ASA Tengtou Agricultural Science Award Committee (2018 – 2019)
 USDA's Plant Variety Protection Board, 2015 – 2016
 National Wheat Improvement Committee, member, 2011 – 2013, Chair, 2014 – 2016
 National Crop Improvement Committee, member, 2012 - 2015

Regional:

Local Organizing Committee for Western Wheat Workers meeting, 2011, 2014, 2018
 Western Wheat Workers, member, 2007 – 2013; chair, 2014 – 2016
 WERA-1009 committee, member, 2008 – 2016, co-chair 2009, chair 2010

State:

Foundation Seed Stock Committee, member, 2007 – present
 Idaho Grain Producer Association, member, 2007 – present
 Search Committee for the Plant Geneticist position for USDA-ARS, 2013

College and Departmental:

Member of Aberdeen Station Manager Search Committee, 2019
 Mentor committee, Daolin Fu, 2018 – present
 Mentor committee, Xi Liang, 2014 – present
 Member of UI-LCS Steering Committee, 2012 - current
 Chair of Search Committee for a post doctorate fellow, 2015, Hired Rui Wang
 Chair of Search Committee for Ag. Seed Technician, 2013, Hired Natalie
 Chair of Search Committee for a post doctorate fellow, 2012. Hired Dr. Yuegang Wang
 Juliet Marshall Promotion and Tenure Committee, 2009
 Chair of Search Committee for Support Scientist, 2008. Hired Justin Wheeler

Professional and Scholarly Organizations

Memberships in Professional Society

Crop Science Society of America (2005 – current)
Agronomy Science of America (2007 – current)
Gamma Sigma Delta, the Honor Society of Agriculture (2011 – current)

Review Activities

Reviewer of manuscript for PMC genetics (2010), TAG (2011, 2012, 2014, 2015, 2017, 2018, 2019), Molecular Breeding (2011, 2012, 2018), Journal of Plant Registration (2009 – present), Crop Science (2009 – present), cereal chemistry (2011 - present), Euphytica (2012, 2014, 2017, 2018), PLO ONE (2017, 2018)
Panelist, USDA-NIFA, Biology of Agricultural Plants Panel (2015)
Panelist, USDA-NIFA, Biology of Agricultural Plants Panel (2011)
Reviewer for USDA-ARS 5-year grants (2017)
Reviewer of Hatch Hatch proposal for UI (2009, 2010, 2014, 2015, 2017)
Reviewer of proposal for NSF-BREAD (2010)
Reviewer of Hatch Hatch proposal for WSU (2011)