

Celeste Marie Falcon

Curriculum vitae

University of Minnesota, Department of Agronomy and Plant Genetics
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Education

- 2016 Ph.D., Applied Plant Sciences, University of Minnesota, St. Paul, MN
Concentration in Plant Breeding and Molecular Genetics
Thesis title-Implementing Association Mapping and Genomic Selection to Advance Breeding for Complex Traits in Barley
- 2011 B.S., Plant Science, Cornell University, Ithaca, NY
Honors thesis title-Mapping Genes Controlling Inulin Content in Wheat

Research Experience

- 2011- Graduate Research Assistant, Department of Agronomy and Plant Genetics, University of Minnesota, St. Paul, MN
- 2009-11 Undergraduate Researcher/Lab Assistant, Department of Plant Breeding and Genetics, Cornell University, Ithaca, NY
- 2010 Biological Science Aid, National Center for Genetic Resource Preservation, USDA-ARS, Fort Collins, CO
- 2008-09 Undergraduate Researcher/Lab Assistant, Department of Horticulture, Cornell University, Ithaca, NY
- 2008 Biological Science Aid, National Center for Genetic Resource Preservation, USDA-ARS, Fort Collins, CO

Fellowships, Grants, and Awards

- 2015-16 Doctoral Dissertation Fellowship, University of Minnesota
- 2015 Microbial and Plant Genomics Institute Travel Grant, University of Minnesota
- 2014 Microbial and Plant Genomics Institute Travel Grant, University of Minnesota
- 2014 College of Food, Agricultural, and Natural Resource Sciences Alumni Society Graduate Studies Professional Development Award, University of Minnesota
- 2014-15 MnDRIVE Global Food Supply Initiative Graduate Student Fellowship
- 2014 Crop Science Society of America PAG XXII Poster Competition-2nd place

Research Publications

- Falcon, C.M.**, K. P. Smith. Genome-wide association mapping for nitrogen use efficiency in elite six-row and two-row spring barley germplasm. *In preparation.*

Conference Presentations and Posters

- Falcon, C.M.**, K.P. Smith. "Haplotype diversity at a grain protein content QTL identified in elite six-row and two-row barley germplasm." Invited oral presentation: November 15-18, 2015. ASA, CSSA, and SSSA International Annual Meeting, Minneapolis, MN.
- Falcon, C.M.**, K.P. Smith. "Genome-wide association mapping for nitrogen use efficiency in spring two-row and six-row elite barley germplasm." Poster presentation: July 28-30, 2015. National Association of Plant Breeders Meeting, Pullman, WA.
- Falcon, C.M.**, K. P. Smith. "Evaluating Genomic Selection in the First Two Cycles of a Winter Barley Breeding Program." Invited oral presentation: January 10, 2015. International Plant and Animal Genome Conference XXIII, San Diego, CA.
- Falcon, C.M.**, K. P. Smith. "Evaluation of genomic selection in the context of initiating a winter barley breeding program." Poster presentation: November 2-5, 2014. ASA, CSSA, and SSSA International Annual Meeting, Long Beach, CA.
- Falcon, C.M.**, K. P. Smith. "Haplotype analysis of nitrogen use efficiency in elite barley germplasm." Poster presentation: August 6-7, 2014. National Association of Plant Breeders meeting, Minneapolis, MN.
- Falcon, C.M.**, K. P. Smith. "Genetic control of nitrogen use efficiency in elite barley germplasm." Oral presentation: July 1, 2014. North American Barley Researchers Workshop, Minneapolis, MN.
- Falcon, C.M.**, R. Horsley, K. P. Smith. "Genetic variation and trait architecture for nitrogen use efficiency in elite barley germplasm". Poster presentation, January 10-15, 2014. International Plant and Animal Genome Conference XXII, San Diego, CA.
- Falcon, C.M.**, K. P. Smith. "Evaluation of near isogenic lines for grain protein content in barley". Poster presentation, January 12-16, 2013. International Plant and Animal Genome Conference XXI, San Diego, CA.

Teaching Experience and Development

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| 2015 | Teaching Assistant for AGRO 8241-Chromosomal and Molecular Genetics of Plant Improvement |
| 2014 | Commenting on & Grading Student Writing: A Workshop for Teaching Assistants |
| 2013 | Preparing Future Faculty-Practicum for Future Faculty |
| 2013 | Preparing Future Faculty-The Academic Job Search |
| 2012 | Teaching Assistant for AGRO 1103-Crops, Environment, and Society |
| 2012 | Preparing Future Faculty-Teaching in Higher Education |

Mentoring Experience and Development

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| 2013-14 | Elijah Rasmuson-Undergraduate Research Assistant |
| 2013-14 | Erik Vavra-Undergraduate Research Assistant |

- 2012-13 Erin Pfarr-Undergraduate Research Project
- 2011-12 Tianqi (Gordon) Sun-Undergraduate Research Project
- 2012 Entering Mentoring: A Seminar to Train a New Generation of Scientists

Extension Experience

- 2014 Presented part of a workshop on using the Triticeae Toolbox (T3) Database for data access, visualization, and analysis to about 40 barley researchers at the North American Barley Researchers Workshop, Minneapolis, MN
- 2014 Presented a short field tour talk entitled "Genomic selection for winter malting barley" to about 150 North American barley researchers, University of Minnesota, St. Paul, Minnesota
- 2013 Presented a 1-hour online lecture along with two collaborators on implementing and analyzing the Type 2 Modified Augmented Design for plant breeding field trials to the Triticeae Coordinated Agriculture Project (TCAP) Plant Breeding Training Network, University of Minnesota, St. Paul, Minnesota
- 2013 Presented a 40-minute interactive lecture to 2013 Borlaug Fellows entitled "The Triticeae Coordinated Agriculture Project (TCAP) and the Triticeae Toolbox (T3) Database", University of Minnesota, St. Paul Minnesota
- 2013 Presented a short field tour talk entitled "Facultative 'Winter' Barley Breeding" to mixed group of local researchers and maltsters/brewers, University of Minnesota, St. Paul, Minnesota

Department and University Service

- 2014-16 Council of Graduate Students representative to Graduate Education Council
- 2013-14 Faculty position search committee member
- 2012-14 Borlaug Memorial Lecture Committee (2014 Committee Chair)
- 2012-15 Applied Plant Sciences Pioneer Plant Breeding Symposium Committee (2012-13 Committee Chair)
- 2012-13 Applied Plant Sciences Representative to the Council of Graduate Students
- 2012 Council of Graduate Students Representative to Student Senate
- 2012 TCAP (Triticeae Coordinated Agriculture Project) Seminar Series Committee

Professional Societies

- National Association of Plant Breeders
- Crop Science Society of America
- American Society of Agronomy
- Soil Science Society of America