# JEFFREY L. NEYHART

## CURRICULUM VITAE

University of Minnesota – Twin Cities Department of Agronomy and Plant Genetics 411 Borlaug Hall 1991 Buford Circle Falcon Heights, MN 55108

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#### **EDUCATION**

Bachelor of Science, Plant Science, Cornell University, Ithaca, NY	2014
<b>Doctorate of Philosophy</b> , Plant Breeding and Molecular Genetics, University of Minnesota – Twin Cities, St. Paul, MN	Expected 2019

#### HONORS

2015 2014 – 2015
2014
2014
2011 – 2014
2014 – Present
2011 – 2014

## **RESEARCH EXPERIENCE, CONT.**

<b>Nucleic Acid Analysis Laboratory</b> , DuPont Pioneer, Johnston, IA Summer research intern Designed and carried out an independent research project evaluating the efficacy of molecular characterization protocols for experimental crop lines	2013
<b>Plant Biology Division</b> , Samuel Roberts Noble Foundation, Ardmore, OK Summer research scholar with Dr. Kelly Craven Investigated various methods of isolating and identifying an endophyte species with reported plant growth-enhancing properties. Experimented with different selective nutrient media for fungal isolation and DNA sequencing for identification	2012
TRAINING & OTHER EXPERIENCE	
Summer Institute in Statistical Genetics, University of Washington, Seattle, WA Module 6: Gene Expression Module 12: Supervised Methods of Statistical Machine Learning Module 15: Mixed Models in Quantitative Genetics Proficiency in several programming languages R Shell/Bash Python	2015
RESEARCH INTERESTS	
Interests center on exploring new methods and ideas with promising application in plant breeding and genetics, including genomics technologies for genotyping and molecular characterization, unmanned aerial vehicles (UAVs) for high-throughput phenotyping, co- cultivation of crop plants and endophytic species, and genome editing for precise gene modification; interdisciplinary collaboration will hopefully be a focus in current and future research.	
TEACHING EXPERIENCE	
<b>Teaching Assistant</b> , Oral Communication, Cornell University, Ithaca, NY Interacted individually with students and with the class as a whole to develop effective public speaking skills; most students demonstrated remarkable improvement in these skills; also assisted with regular class activities, such as grading and attendance	Fall, 2013

#### TEACHING EXPERIENCE, CONT.

**Study Group Leader**, Intro to Evolutionary Biology and Diversity, Cornell University, Ithaca, NY Led a small study group that served as learning supplement to a large, lecture-based course; employed creative and interactive learning techniques to ensure student understanding of course material; most students reported benefiting from study group participation

#### **TEACHING INTERESTS**

Teaching interests focus primarily around the emphasis on conceptual and analytical learning, while assessing this learning through organized writing; this may involve addressing relevant issues and questions in the subject field through research-supported analysis and thoughtful expression.

#### **SOCIETIES & HONORARIES**

2015 – Present
2015 – Present
2015 – Present
2013 – 2014

#### UNIVERSITY SERVICE

President, APS Graduate Student Association	2015 – 2016
Borlaug Memorial Lecture Planning Committee	2015
Pioneer Plant Breeding Symposium Planning Committee	2014 – 2015
Other APS fundraising and social committees	2014 - Present

#### **PRESENTATIONS & POSTERS**

"Leveraging Novel Genomics Techniques in a New Two-Row Barley Breeding Program," **Thesis Proposal Seminar**, University of Minnesota, September 21, 2015 (Presentation).

*"VRS1* Reverse Genetics Through Gene Editing," **University of Minnesota Barley Symposium**, June 12, 2015 (Presentation).

"Virus-induced gene silencing of traits in the developing grain of wheat," **Triticeae Coordinated Agricultural Project (TCAP) Annual Meeting**, January 9, 2015 (Poster).

#### **COMMUNITY SERVICE**

Usher, St. Catherine's Parish, Farmingdale, New Jersey	2006 – Present
Volunteer, Second Harvest Heartland, Minneapolis, Minnesota	2015 – Present

Fall, 2012

Page 3 of 4

## ADDITIONAL INFORMATION

Languages: English; basic fluency in Spanish Citizenship: United States

### REFERENCES

References will be furnished upon request.