

DANIEL SJARPE
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Education

- PLPM, Iowa State University **2015 – 2017**
Major – Master’s in Plant Pathology

- Biology, University of North Dakota **2008 – 2012**
Major – Biology
Overall GPA: 3.69

Awards

- University of North Dakota Track and Field Team **Fall 2008 – Spring 2010**
- Presidential Scholarship – University of North Dakota **August 2008 – May 2012**

Research Experience

Plant pathology laboratory at Iowa State University, Ames, IA **2015 – Present**

- Graduate Student / Research Assistant
Title: Effects of seed treatments and soybean varieties on root rot caused by
Fusarium virguliforme

Dow AgroSciences, LLC, Lanesboro, MN and Fargo, ND (contracted through Kelly Services)

Research & Development Intern **Summer 2009 – 2015**

- Measuring, staking, flagging plots for establishment and wildlife fencing
- Assisting with corn, soybean, sunflower, and wheat research
- Responsible for mixing chemical treatments and stewardship of waste materials
- Participated in plot spraying, crop tolerance and pest efficacy assessments
- Operated machinery for spraying, tillage, plot maintenance and crop destruction activities
- Responsible for company- provided vehicle, multi-state travel and expense management

Dr. Steven Ralph Lab

August 2011 – May 2012

Plant-Insect Interactions with Poplars and White-marked Tussock Moths

- Bioassays performed on genetically enhanced mutant poplar trees
- If the mutant poplar tree was interesting it was compared to wild type trees
- Applied genetic analysis if the mutant tree was significantly different from the wild type
- Implemented scientific methodology for collection of data using Microsoft Excel
- Cloning of Poplar trees using air layering
- Analyzed the collected data using real-time PCR

Memberships

- American Phytopathological Society (APS)

Publications, Presentations and Papers

- *Management of sudden death syndrome of soybean through seed treatments* **January 2016**
Video presentation for Extension and Outreach
- *Integrated management of sudden death syndrome* **January 2017**
Video presentation for Extension and Outreach
- *Scouting for field crop diseases* **March 2017**
Oral presentation at Iowa State Crop Scouting School
- Effect of seed treatments and soybean cultivars on root rot caused by *Fusarium virguliforme* **November 2017**
Master’s thesis