

Derek Nedveck
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dnedveck.com

Research Experience

- PhD Candidate in Plant Biological Sciences** *September 2012–Present*
Advisor: Peter Tiffin
University of Minnesota-Twin Cities, St Paul, MN
- B.S. Biochemistry** *August 2006–August 2011*
Certificate (Minor) in German
University of Wisconsin-Madison, Madison, WI
- Academic Year Abroad** *August 2009–July 2010*
Studied Linguistics, Literature and Culture
Albert-Ludwigs-Universität Freiburg, Freiburg, Germany

Research Experience

- Research Assistant** *October 2012–August 2014*
Peter Tiffin's Lab
University of Minnesota-Twin Cities, Dept. of Plant Biology
Genome-wide association analysis of saponin production in *Medicago truncatula*
Analysis of signatures of local adaptation in *M. truncatula* genome
- Research Assistant** *October 2011–June 2012*
Franziska Krajinski's Lab
Max Planck Institute for Molecular Plant Physiology, Golm, Germany
Analyzed microRNA expression using quantitative real-time PCR
Characterized an arbuscular mycorrhizal-associated microRNA in *Medicago truncatula*
- Summer Research Opportunity Program Participant** *Summer 2009*
Jean-Michel Ané's Lab
University of Wisconsin-Madison, Dept. of Agronomy
Studied the symbiosis signalling pathway in *Medicago truncatula*

Teaching Experience

- BIOL3272/5272: Applied Biostatistics, Teaching Assistant** *Spring 2015*
Professor: Yaniv Brandvain
University of Minnesota-Twin Cities
- BIOL3272/5272: Applied Biostatistics, Teaching Assistant** *Fall 2014*
Professor: Fumiaki Katagiri
University of Minnesota-Twin Cities

Co-organizing “Does[0]Compute?”***Fall 2014–Spring 2015***

Biocomputing discussion group for graduate students and faculty
Co-led session on data skills in science and setting up a project space
Co-led session on using Git and GitHub for a scientific workflow
Co-led session on using R for data analysis

Co-taught “How to Use a Computer as a Tool in Grad School”***Fall 2013 & 2014***

Computer Skills Workshop for Incoming Grad Students
Robust work documentation, backing up data, and finding computer tools

Co-taught “Practical Computing for Biologists”***Fall 2013 & 2014***

Computer Skills Workshop for Grad Students
Regular expressions, Unix computing, Python

Funding and Awards**NSF Graduate Research Fellowship Program Honorable Mention*****April 2014*****Dayton Bell Museum Fund Fellowship*****March 2014*****Outreach and Service****“Science in Your Backyard” at the Midtown Farmer’s Market*****Summer 2014***

Science demonstrations and activities for children
Discussed current science topics and explained my thesis research to adults

Phytograds Officer***Academic year 2013 & 2014***

Plant Biological Sciences graduate student organization officer
Planned departmental parties and graduate student retreats

UROP Mentor of Lea Graber***Summer 2014***

Helped design experiment and choose and carry out analyses

Science Olympiad Judge***March 2013, 2014, 2015***

Minnesota State Competition
Designed, supervised, and judged “Crime Busters” event

Science Olympiad Judge***December 2013***

Minnesota Invitational Competition
Designed, supervised, and judged “Experimental Design” event