

Curriculum Vitae for Lisa Wasko DeVetter

Department of Horticulture
University of Wisconsin-Madison
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EDUCATION

PhD Candidate, Horticulture (graduation in December of 2013)

- Department of Horticulture at the University of Wisconsin-Madison (UW-Madison)
- Advisors: Drs. Rebecca Harbut and Jed Colquhoun
- Dissertation Projects:
 - 1) Modeling the effects of physiological, environmental, and genetic variables on yield of cranberry
 - 2) Characterization of floral bud development and return bloom across old and new cultivars of cranberry
 - 3) Comparison of non-structural carbohydrates across old and new cultivars of cranberry

Master of Science, Horticulture and Soil Science (2010)

- Departments of Horticulture and Agronomy at Iowa State University (ISU)
- Advisors: Drs. Gail Nonnecke (horticulture) and Lee Burras (soil science)
- Thesis Projects:
 - 1) Alternative weed management strategies influence on weed control, grapevine performance, and soil properties in an established midwestern vineyard
 - 2) Impacts of living mulches and irrigation on grapevine performance in an established midwestern vineyard
 - 3) Survey of Iowa fruit and vegetable growers' knowledge of production practices and their impacts on soil quality
- Additional research on agriculture knowledge transfer among school-aged children participating in a school garden program located in Uganda

Bachelor of Science, Horticulture and Biology (2007, Summa Cum Laude)

- Departments of Horticulture and Ecology, Evolution, and Organismal Biology (EEOB) at Iowa State University (ISU)
- Advisors: Dr. Gail Nonnecke (horticulture) and Mr. Jim Holtz (biology)

EMPLOYMENT HISTORY

Graduate Research Assistant in the Department of Horticulture at UW-Madison (2010-present)

- Dissertation research on cranberry physiology and factors influencing commercial production.
- Worked with the UW fruit extension program on field- and lab-based research and extension projects. Activities include high-tunnel construction and management, planting and establishment, plot maintenance, pruning, establishment and application of irrigation systems, fruit maturity and quality testing, harvesting, and plant and soil sample preparation for scientific analyses. Crops worked with include cranberry, grape, apple,

raspberry, and other minor fruit crops. Experienced with both conventional and organic production systems.

- Presented information on dissertation research and production of fruit crops to grower organizations, Wisconsin Master Gardeners, and fruit researchers and extension agents.
- Mentored and co-advised undergraduate independent research projects.

Graduate Research Assistant in the Department of Horticulture at ISU (2008-2010)

- Thesis research on alternative weed management practices in vineyard agroecosystems and Iowa fruit and vegetable growers' knowledge of soil quality.
- Assisted with grape, tree fruit, small fruit, and vegetable research and extension projects located at university research/demonstration sites and commercial farms. Activities include crop planting and establishment, experimental design, plot maintenance, pruning, establishment and application of irrigation systems, fruit maturity and quality testing, harvesting, and plant and soil sample preparation for scientific analyses.
- Presented information on thesis research, fruit crop production, and growing plants in soilless media to grower organizations, Iowa Master Gardeners, and other fruit researchers and extension agents.
- Assisted extension personnel at field days, workshops, and meetings.
- Mentored and co-advised undergraduate independent research projects.
- Assisted university faculty and personnel of a local nongovernmental organization with implementation of a study abroad program based in Uganda.

Undergraduate Research Assistant in the Department of Horticulture at ISU (2006-2008)

- Assisted faculty, research associates, and graduate students with projects on grapes, tree fruits, small fruits, and vegetables. Provided additional assistance with on-farm projects assessing soil quality in vineyard and strawberry production systems.
- Completed undergraduate research project that compared yield and fruit quality of grapes grown with conventional, organic, or integrated pest management (IPM) production practices.

Undergraduate Peer Mentor for the Biology Program at ISU (2004-2007)

- Residential mentor for the biology learning community. Responsibilities included tutoring, facilitating study sessions, collaborating with other mentors in planning educational and social events, and serving as a resource for students majoring in the biological sciences.

Undergraduate Independent Study Project in Biology at ISU (2006)

- Characterized two putative subspecies of moonwort (*Botrychium* spp.) via alloenzyme analyses.

Undergraduate Research Assistant in Genetics, Development, and Cell Biology at ISU (2005)

- Investigated molecular mechanisms responsible for maize inflorescence development. Acquired experience in nucleic acid extraction, polymerase chain reaction (PCR), and electrophoresis.

Undergraduate Laboratory Assistant in Plant Pathology and Microbiology at ISU (2005)

- Laboratory assistant for the course, Principles of Plant Pathology (PI P 408/508). Responsibilities included media making, performing fungal and bacterial transfers, and general microbiological lab preparation.

PUBLICATIONS

Research Papers

DeVetter, L.W., R. Harbut, and J. Colquhoun. 2013. Understanding yield-contributing factors of cranberry (*Vaccinium macrocarpon* Ait.). J. Am. Pomol. Soc. *In Press*.

DeVetter, L.W., R. Harbut, and J. Colquhoun. 2013. Bud development, return bloom, and external bud appearance differs across old and new cranberry cultivars. J. Amer. Soc. Hort. Sci. *In Review*.

DeVetter, L.W., R. Harbut, and J. Colquhoun. 2013. Feasibility of developing accurate yield prediction models in perennial fruit production systems using cranberry as a case study. Crop Sci. *Manuscript in preparation*.

DeVetter, L.W. and G. Nonnecke. 2013. Mulches reduce weeds, maintain yield, and promote soil quality in a midwestern vineyard. Am. J. Enol. Viticult. *Manuscript in preparation*.

DeVetter, L.W. and G. Nonnecke. 2013. Survey of Iowa fruit and vegetable growers' awareness of weed management and soil quality. HortTechnology. *Manuscript in preparation*.

DeVetter, L.W., G. Nonnecke, D. Masinde, and L. Burras. 2013. School garden program promotes knowledge transfer and home gardening in rural Uganda. HortTechnology. *Manuscript in preparation*.

Veenstra, J.J., D. Dembe, J. Nsamba, L. Wasko, L. Burras, G. Nonnecke, B. Orum, S. Downie, and R. Cox. 2009. Mapping soils in central Uganda. Soil Survey Horizons. 50:30-34.

Progress Reports

DeVetter, L.W., R. Harbut, and J. Colquhoun. 2013. Reflecting on bud appearance and its role in yield prediction. Wisconsin Cranberry School 2013 Proceedings. Wisconsin State Cranberry Growers Association (WSCGA). 21:33-35.

DeVetter, L.W., R. Harbut, and J. Colquhoun. 2012. Vegetative or reproductive – What is in a cranberry bud? Wisconsin Cranberry School 2012 Proceedings. Wisconsin State Cranberry Growers Association (WSCGA). 20:4-6.

Wasko, L. and G. Nonnecke. 2009. Alternative weed management strategies: Effects on weed control and grapevine yield in an established vineyard. ISU Annual Progress Reports-2009, Horticulture Research Station. ISRF09-36: 42-43.

Wasko, L. and G. Nonnecke. 2008. Alternative weed management strategies influence weed control and grape yield in an established vineyard. ISU Annual Progress Reports-2008, Horticulture Research Station. ISRF08-36: 45-46.

Wasko, L., G. Nonnecke, and P. Domoto. 2007. Influence of vineyard management practices and cultivar on grape berry properties. ISU Annual Progress Reports-2007, Horticulture Research Station. ISRF06-36: 40-43.

Abstracts and Professional Poster Presentations

DeVetter, L.W. 2012. New discoveries in cranberry bud development. Poster Presentation. American Society of Horticultural Science (ASHS) annual conference. Miami, FL.

Wasko, Lisa. 2009. Alternative weed management practices for established vineyards in Iowa. Poster Presentation. American Society of Enology and Viticulture, Eastern Section (ASEV-ES) annual conference. Painseville, OH.

TEACHING EXPERIENCE

- **HORT 120. Survey of Horticulture. UW-Madison. 3 credits.** Lecture, lab, and service-learning based course addressing general horticulture. Responsibilities included developing, planning, and conducting weekly labs. Also helped students identify and engage in service-learning experiences within the Dane county community.
- **HORT 345. Fruit Crop Production. UW-Madison. 3 credits.** Advanced-level course on temperate fruit crop production and physiology. Provided lectures, led laboratory exercises, and assisted with lab and field activities.
- **Hort 490. Service-Learning/School Gardens in Uganda. ISU. 4 cr.** Assisted with coordination of teaching and school garden activities with ISU and Makerere University (MAK) faculty, students, and staff, as well as local primary schools and a non-governmental organization in Uganda.
- **GLOBE 490Z. Service-Learning in Uganda. ISU. 1 cr.** Assisted and facilitated in-class discussions on rural development, school gardens, service-learning, and experiences as a bi-national team in a developing nation.
- **Hort 495. Travel Course Preparation. ISU. R.** Assisted with development of course material and facilitated in-class discussions for a study abroad course based in Uganda.

PRESENTATIONS

Research

September 2011	<i>Characterizing Bud Development in Cranberry.</i> North American Cranberry Researchers and Extension Workers (NACREW) conference. Wisconsin Dells, WI.
November 2009	<i>Service-Learning/School Garden Program Influences Ugandan Children's Agricultural Knowledge and Home Gardening Practices.</i> Department of Horticulture Seminar. ISU. Ames, IA.
November 2008	<i>School Gardens in Uganda: Transfer of Agricultural Knowledge and Nutritional Assessment of Primary School Children.</i> Department of Horticulture Seminar. ISU. Ames, IA.
September 2008	<i>Uganda: ISU Service Learning.</i> Feeding the World: Are We Making Progress? Seminar Series. ISU. Ames, IA.
September 2007	<i>Service-Learning in the Pearl of Africa.</i> Feeding the World: Are We Making Progress? Seminar Series. ISU. Ames, IA.
March 2007	<i>Vineyard Management Practices Influence Grape Berry Properties Among Cultivars.</i> Presented to Iowa legislatures at State of Iowa Capitol Rotunda. Des Moines, IA.

Extension and Outreach

March 2013	<i>Small Fruit Production for the Wisconsin Home Gardener.</i> Dodge County Master Gardener Presentation. Juneau, WI.
January 2013	<i>Reflections on Bud Appearance and its Role in Yield Prediction.</i> Wisconsin State Cranberry Growers Association (WSCGA) conference. Stevens Point, WI.
April 2012	<i>Grape Expectations-A Presentation on the History and Culture of Grapevines.</i> Presentation to the UW-Madison Undergraduate Horticulture Society. Madison, WI.
March 2011	<i>Growing Fruit in Wisconsin.</i> Walworth County Master Gardeners Presentation. Elkhorn, WI.
October 2009	<i>Agricultural Knowledge, Knowledge Transfer, and Home Gardening Practices Influenced by School Garden Program in Rural Uganda.</i> Story County Master Gardeners Presentation. Ames, IA.
July 2009	<i>Weed Management and Soils in Iowa Vineyards.</i> Western Iowa Grape Growers Association. Council Bluffs, IA.
June 2009	<i>Alternative Weed Control for Iowa Vineyards.</i> Co-presented with Dr. Gail Nonnecke. Filmed and posted by the Leopold Center for Sustainable Agriculture. View at website below: http://www.leopold.iastate.edu/news/on-the-ground/alternative-weed-control-iowa-vineyards
April 2009	<i>Children's Gardens in Uganda.</i> Iowa State Horticultural Society's All Iowa Horticulture Exposition. Ottumwa, IA.
March 2009	<i>Alternative Weed Management Practices for Established Vineyards in Iowa.</i> Iowa Wine Growers Association. Des Moines, IA.
March 2009	<i>Selecting Fruit Species and Planting Techniques for Northern Iowa.</i> ISU Department of Horticulture Extension presentation. Hampton, IA.
October 2008	<i>Service-Learning Experiences in Uganda.</i> Ames Morning Rotary Club. Ames, IA.
October 2008	<i>Introduction to the Greenhouse and Soilless Media.</i> Iowa Master Gardener Course. ISU. Ames, IA.
July 2008	<i>ISU Research Projects in Viticulture.</i> Presented to the Iowa Grape and Wine Commission. ISU. Ames, IA.
October 2007	<i>Introduction to the Greenhouse and Soilless Media.</i> Iowa Master Gardener Course. ISU. Ames, IA.

WORKSHOPS AND SYMPOSIUMS

Research

- **Research Plant Care Workshop (2013).** Collaborated with on-campus managers of greenhouses in the development and conduction of a half-day workshop addressing critical issues for researchers in the plant sciences. Content addressed biosafety, personnel safety, and management of light, temperature, media, mineral nutrition, pests, and diseases.
- **Emerging Trends & Paradigm Shifts in Plant Breeding (2012).** Annual Symposium hosted by the Plant Science Graduate Student Council (PSGSC). Planned and organized symposium, invited speakers, developed and distributed promotional material, organized webcasting of event, and co-authored grants to support the symposium (more information about the symposium at: <http://psgsc.wisc.edu/annual-plant-science-symposium/2012-symposium/>).

Education

- **New Educators' Orientation Training (2013).** Assisted in the development and conduction of a two-day workshop for first-time teaching assistants in the colleges of agriculture, life sciences, and engineering. Discussed university policy information, curriculum development, classroom management, and other educational issues.

COMMUNITY OUTREACH

- Program coordinator for the Meadowood Children's Garden program (2012-present)
- Volunteer for "Saturday Science" events at the Wisconsin Institute of Discovery (2012-present)
- Volunteer for "Family Gardening Day" at the UW-Madison (2012-present)
- Volunteer for "Explorando las Ciencias Family Science Event" at the UW-Madison (2011)
- Volunteer for "Family Horticulture Day" at the UW-Madison Agricultural Research Station (2011)
- Volunteer for "Family Science Night" at Edgewood College (2011)
- Volunteer for "Science Expeditions" at UW-Madison (2011)

AWARDS, GRANTS, AND MEMBERSHIPS

Awards and Honor Societies

- UW-Madison Teaching Assistant Award for Exceptional Service (2012)
- Gurine Gulsteen (Gjermundson) Research Fellowship (2012-2013)
- Pi Alpha Xi National Honor Society for Horticulture (2010-present)
- ISU Print and Grace Powers Hudson Scholarship in Agriculture (2009-2010)
- American Society of Enology and Viticulture, Eastern Section (ASEV-ES) Scholarship (2008-2010)
- ISU Caine-Bogle Family Graduate Fellowship (2008-2009)
- Stark Horticulture Graduate Student Scholarship (2008-2010)
- ISU College of Agriculture and Life Sciences Travel Fellowship (2008)
- Norman Borlaug Lecture Poster Competition (2007 through 2009); first place recipient in 2007; third place recipient in 2009
- Iowa Department of Agriculture and Land Stewardship (IDALS) and Iowa Grape and Wine Commission Scholarship for students in viticulture and enology (2007)
- Student Scholars and Leader-High Scholarship Award (2007)
- Mortar Board Honor Society Member (2007-present)
- Gamma Sigma Delta, Agriculture Honors Society Member (2006-2007)
- Phi Kappa Phi, National Honor Society Member (2005-2006)

- Golden Key International Honor Society Member (2005-2006)
- Beta Beta Beta, National Biological Honors Society Member (2004-present)
- Undergraduate Dean's List (2003-2007)

Grants

- **DuPont-Pioneer (2012).** Co-authored a grant with the PSGSC that funded a student-run symposium.
- **Associated Students of Madison (2012).** Co-authored a grant with the PSGSC that provided additional funding for a student-run symposium.
- **Council for International Programs (2008).** Co-authored a grant that supported collaborative research on the educational and nutritional impacts of a Ugandan-based school garden program.
- **Leopold Center for Sustainable Agriculture (2012).** Assisted major professor, Dr. Nonnecke, with renewal grant writing and annual progress reports. Funds supported thesis research.
- **Molecular Organismic Research in Plant History (2005).** Funding supported undergraduate research on the molecular mechanisms responsible for maize inflorescence development.

Membership - Professional Societies

- American Society for Horticultural Science (ASHS) (2012-present)
- American Pomological Society (APS) (2012-present)
- American Society for Enology and Viticulture (ASEV) (2008-2010)

Membership - University and Departmental Organizations

- Curriculum Committee member for the Department of Horticulture at UW-Madison (2011-present)
- Social Committee member for the Department of Horticulture at UW-Madison (2011-present)
- Horticulture representative and council member for the PSGSC at UW-Madison (2012)
- Member of the PSGSC at UW-Madison (2010-present)
- President of the Graduate Student Horticulture Society (GSHS) at ISU (2009-2010)
- Member of the Graduate Student Horticulture Society (GSHS) at ISU (2008-2010)