

Curriculum Vita for Jennifer McGuire Boussetot

EDUCATION

Doctor of Philosophy: Colorado State University (2007-2010), *College of Agricultural Sciences*

- ✧ Major: Horticulture, Major Professor: James E. Klett, Ph.D.

Master of Science: Iowa State University (2001-2003), *College of Agriculture and Life Sciences*

- ✧ Major: Sustainable Agriculture, Major Professor: Deborah Muenchrath, Ph.D. (deceased)

Bachelor of Science: Iowa State University (1997-2001), *College of Agriculture and Life Sciences*

- ✧ Major: Plant Health and Protection, Minor: Spanish

PROFESSIONAL EXPERIENCE

Colorado State University, Horticulture and Landscape Architecture

Instructor and Affiliate Faculty (October 2013-on)

- ✧ Online Degree Completion co-coordination for Horticultural Business Management major
 - Online Degree Completion Program to be released Spring 2016 (Steven Newman, Ph.D.)
 - Cooperate with staff from OnlinePlus to arrange the last two years of the degree online
 - Facilitate curriculum approval process to take 10+ existing courses online
 - Work with faculty in three departments to arrange course transition and delivery
 - Collaborate on Statewide Articulation Agreement for major, approved December 2014
- ✧ Teach HORT 581A1 *Green Roof Culture* (Fall 2014, Fall 2015)
- ✧ Teach HORT 454 *Horticulture Production and Management* (Spring 2014, 2015, 2016)
- ✧ Teach AGRI/HORT 580A3 *Urban Horticulture* (Spring and Summer 2014, Spring 2015 and 2016)
- ✧ Teach HORT 450C *Small Fruit Production* (Fall 2013, Fall 2015)
- ✧ Teach HORT 450D *Tree Fruit Production* (Fall 2015)
- ✧ Consultant on *Nature in the City* green wall for the City of Fort Collins and the CSU Institute for the Built Environment (Spring 2014-on)

Colorado Native Plant Society (CoNPS), Membership and Marketing Coordinator (July 2015-on)

- ✧ Manage the marketing for CoNPS as a nonprofit organization and promote the mission
- ✧ Increase CoNPS' presence at events with our 125+ partner organizations
- ✧ Collaborate on event planning and market CoNPS events outside the membership
- ✧ Communicate with 1000+ CoNPS members through e-newsletter and social media
- ✧ Aid chapter presidents and committee chairs with volunteers for events and projects

Iowa State University, Horticulture Department

Lecturer (online, part time) (January 2013 – March 2014)

Develop and teach online distance education courses via Blackboard Learn

- ✧ Teach HORT 193 *Science of Gardening* (Spring 2014)
- ✧ Teach HORT 193F *Green Roof Design, Installation, and Management* (Fall 2013)
- ✧ Teach HORT 193A *Introduction to Houseplants* (Spring 2013)

Iowa State University, Horticulture Department and Iowa State University Extension

State Master Gardener Coordinator and Lecturer (April 2010 – May 2012)

Coordinate all aspects of the Iowa Master Gardener volunteer program

- ✧ Coordinate and co-teach two annual Iowa Master Gardener core training seasons
 - 175-400 new Master Gardener Interns each spring and fall
 - Broadcast 8 weeks of Master Gardener core courses via AdobeConnect
 - Host *Class on Campus* (laboratory sessions) as supplement to broadcasts
 - Coordinate and co-teach (travel) 4 remaining Master Gardener face-to-face classes
- ✧ Created and managed Iowa Master Gardener Facebook page
- ✧ Managed content for Iowa Master Gardener website
- ✧ Publish monthly online statewide Iowa Master Gardener newsletter
- ✧ Manage Iowa Master Gardener online volunteer hour management system

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- ✧ Facilitate biannual Master Gardener State Advisory Board Meetings
- ✧ Participate in myriad Iowa Master Gardener events at county, state, and national levels
- Develop *Summer Garden Webinar Series* as Master Gardener update training and recruiting
 - ✧ Educational sessions hosted at Extension county offices for volunteers and the public
 - ✧ Broadcasted via AdobeConnect from various county offices throughout the state
 - ✧ Each year had a different garden training theme with expert guest speakers
 - 2012: *Garden Goodness*, ~600 participants at 20 locations over 4 events
 - 2011: *Garden Natives & Invasives*, ~600 participants at 20 locations over 4 events
 - 2010: *Gardening Green*, ~400 participants at 15 locations over 3 events

Co-develop and co-teach ISU Extension program *Homegrown Lifestyles*

- ✧ Online and county partner 12 week local foods training (Spring 2011, Spring 2012)
 - Piloted in 2011 with 3 county partners and expanded to 5 counties in 2012
 - Training on growing fruits, vegetables, and small livestock on half acre to 10 acres
 - Program continues to this day as certification available through Extension

Co-teach *HORT 424/524, Sustainable and Environmental Horticulture*

- ✧ In-class (Spring 2011) and distance version (Fall 2011)

Teach *HORT 221L, Principles of Horticulture Laboratory*, Fall 2010-Spring 2011

Program Director of *Education And Resiliency Through Horticulture (EARTH)*

- ✧ Donor-funded school gardening program with Giffit Hill School, St. John, US Virgin Islands
- ✧ Coordinate semiannual donor meetings and weekly videoconferencing with onsite coordinator
- ✧ Recruit and mentor ISU undergraduate interns for semester-long travel to Giffit Hill School
- ✧ Manage program planning, budget, and staff for EARTH at ISU and on St. John
- ✧ Co-taught spring break 2012 travel course *HORT 282 Educating Youth Through Gardening*

Colorado State University, Horticulture and Landscape Architecture

Graduate Research Assistant (May 2008 – March 2010)

- ✧ Dissertation: *Extensive Green Roofs in Colorado: Plant Species Performance, Growing Media Modifications, and Species Response to Growing Media Dry Down*
- ✧ Co-wrote EPA Regional Applied Research Effort grant proposal (funding for research)
- ✧ Co-planned 2009 and 2010 Denver Botanic Gardens symposium *Green Roofs of the West*

Graduate Teaching Assistant (January 2007 – May 2008)

- ✧ Assist professor with teaching and grading responsibilities for three college courses
 - H221, Landscape Plants; H321, Nursery Production; H322, Herbaceous Plants
- ✧ Initiated use and managed online course content for classes (WebCT, then RamCT)
- ✧ Managed all aspects of the websites for all courses using Dreamweaver software
- ✧ Laboratory instruction for plant walks, class projects, and field trips

Colorado State University Extension, Douglas County

Horticulture Agent (June 2003 – September 2006)

- ✧ Led the Douglas County Colorado Master Gardener Program, 140 volunteers
- ✧ Collaborated with fellow Extension horticulture staff throughout the state
- ✧ Co-organized 2006 Extension symposium *Composing Colorado Landscapes*
- ✧ Taught and presented various classes for Colorado Master Gardeners and the public
- ✧ Wrote articles for numerous newspapers and green industry publications
- ✧ Managed Colorado Master Gardener events at the farmers market, county fair, etc.
- ✧ Monthly newsletters, on-line communications, and website development

Iowa State University

Graduate Research Assistant, Agronomy Department (May 2001 – April 2003)

- ✧ Field, growth chamber, and laboratory evaluations of Native American maize landraces
- ✧ Thesis work: *Emergence Capabilities of Southwest US Maize Landraces*

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PROFESSIONAL PRESENTATIONS

- Small Fruit Culture*. For Colorado Master Gardeners at the Larimer County Fairgrounds. April 6, 2015.
- Small Fruit Culture*. For Colorado Master Gardeners in Arapahoe and Douglas County. March 24, 2015.
- Green or living walls*. For LAND 368, The City of Fort Collins *Nature in the City*, and the CSU Institute for the Built Environment, April 28, 2014.
- Teaching horticulture courses online*. Graduate seminar for the CSU Department of Horticulture and Landscape Architecture, March 5, 2014.
- Introduction to houseplants: terrariums*. For Colorado Master Gardeners at the Larimer County Fairgrounds. January 25, 2014.
- Photovoltaic array influences the growth of green roof plants*. Presented at Green Roofs for Healthy Cities conference, October 2013.
- Introduction to houseplants: part I*. For Colorado Master Gardeners in Arapahoe and Douglas County. July 11, 2013.
- Introduction to houseplants: part II*. For Colorado Master Gardeners in Arapahoe and Douglas County. August 22, 2013.
- Edible landscaping*. For Dubuque County (Iowa) Master Gardener Spring Seminars, March 3, 2012.
- Green roofs*. For the Clinton County (Iowa) Master Gardener Spring Seminar, March 3, 2012.
- Getting more from your garden*. For the Winter Gardening Fair hosted by the Linn County Master Gardeners, February 18, 2012.
- Green roofs in Iowa*. For the Friends of the Des Moines Botanical Gardens, February 4, 2012.
- Growing green roofs in Iowa*. For the All-Horticulture Expo in Ottumwa, Iowa, March, 26, 2011.
- Roof gardens and rain gardens*. Keynote for the Jackson County Spring Master Gardener Conference, March 12, 2011.
- Getting more from your landscape*. For the Henry County Spring Master Gardener Seminar, March 5, 2011.
- Growing green roofs in Iowa*. For the Iowa Arboretum lecture series, January 22, 2011.
- Getting more from your landscape*. Keynote for the Polk County Master Gardener Fall Conference, November 6, 2010.
- Two methods of quantifying plant cover for evaluating species for extensive green roof culture*. American Society for Horticultural Sciences Conference, August 2010.
- Moisture content of extensive green roof growing media and growth response of fifteen plant species during dry down*. American Society for Horticultural Sciences Conference, August 2010.
- Designing container gardens and celebrity container judging*. For the Clinton County Fair, July 14, 2010.
- Summer gardening ideas*. Presentation for the Grundy County Iowa Fair, July 22, 2010.
- Summer gardening ideas*. Presentation for the Scott County Master Gardeners, July 12, 2010.
- Extensive green roofs in Colorado: plant species performance, growing media modifications, and species response to growing media dry down*. Invited Departmental Seminar for the Department of Horticulture at Iowa State University, April 5, 2010.
- High elevation semi-arid taxa: evaluations on an extensive green roof*. Presented at Green Roofs for Healthy Cities conference, 2009.
- Extensive green roof taxa and soilless media evaluations in semi-arid Colorado*. American Society for Horticultural Sciences Conference, 2009.
- Emergence and seedling characteristics of Native American maize from the southwestern US* American Society for Horticultural Sciences Conference, 2009.
- Introduction to fertilizing plants*. ProGreen Expo and Trade Show, 2005-2007.
- Green roofs for Colorado*. ProGreen Expo and Trade Show, 2008-2010.
- Extensive green roofs as a BMP for stormwater and air quality*. Colorado Watershed Assembly, Vail, Colorado, April 2008.
- Green roofs for the west*. Boulder County Sustainable Landscaping Conference, 2009.
- Various other presentations for CSU Extension and the Colorado gardening public, 2003-2009.
- ✧ Xeriscaping, insect ID, Plant Select®, pruning, sustainable landscaping, etc.

PUBLICATIONS

- Schneider, A., Fusco, M., and Boussetot, J.M. 2014. *Observations on the survival of 112 plant taxa on a green roof in a semi-arid climate*. Journal of Living Architecture: 1(5).
- Newman, S.E., Boussetot, J., Selkirk, L., Brundage, K., Ray Daugherty, R., Waltman, D., Bacheler, D. *Fostering university-community college collaboration for a horticulture online degree completion program*. Abstract. NACTA Journal, Volume 58, Supplement 1.
- Boussetot, J.M., Slabe, T., Klett, J.E., and Koski, R.D. 2013. *Photovoltaic array influences the growth of green roof plants*. Proceedings paper for Green Roofs for Healthy Cities conference.
- Schneider, A., Fusco, M., and Boussetot, J.M. 2013. *Over 100 plant species trialed in a semi-arid climate*. Proceedings paper for Green Roofs for Healthy Cities conference.
- Slabe, T. and Boussetot, J.M. 2013. *Implications of the Stefan-Boltzmann law for green roofs*. Proceedings paper for Green Roofs for Healthy Cities conference.
- Boussetot, J.M., Klett, J.E., and Koski, R.D. 2013 *Evaluating zeolite in an extensive green roof substrate*. American Nurseryman. October, 2013.
- Slabe, T. and Boussetot, J.M. 2013. *A photovoltaic array on a green roof in Denver, Colorado, improves resilience of green roof plants by expanding habitat heterogeneity*. 98th Ecological Society of America national convention.
- Boussetot, J.M., Klett, J.E., and Koski, R.D. 2012. *Evaluating a natural zeolite as an amendment for extensive green roof substrate*. Journal of Environmental Horticulture, 30(4), 201.
- Klett, J.E., Boussetot, J.M., Koski, R.D., O'Connor, T.P. 2012. [Evaluation of green roof plants and materials for semi-arid climates](#). EPA Report, EPA/600/R-12/592.
- Boussetot, J.M., J.E. Klett, and R.D. Koski. 2011. *Moisture content of extensive green roof substrate and growth response of 15 temperate plant species during dry down*. HortScience: 46(3): 518-522.
- Boussetot, J.M., Klett, J.E., and Koski, R.D. 2010. *Evaluating a natural zeolite as an amendment for extensive green roof growing media*. Poster for Green Roofs for Healthy Cities conference
- Boussetot, J.M., Klett, J.E., and Koski, R.D. 2010. *Extensive green roof species evaluations using digital image analysis*. HortScience: 45(8): 1288-1292.
- American Society for Horticultural Sciences abstracts, Palm Desert, CA (2010):
- ✧ *Two methods of quantifying plant cover for evaluating species for extensive green roof culture*
 - ✧ *Moisture content of extensive green roof growing media and growth response of fifteen plant species during dry down*
- Boussetot, J.M., Klett, J.E., and Koski, R.D. 2009. *High elevation semi-arid taxa: evaluations on an extensive green roof*. Proceedings paper for Green Roofs for Healthy Cities conference.
- American Society for Horticultural Sciences abstracts, St. Louis, Missouri (2009):
- ✧ *Extensive green roof taxa and soilless media evaluations in semi-arid Colorado*
 - ✧ *Emergence and seedling characteristics of Native American maize from the southwestern US*
- Colorado Green Magazine, serving the green industry in the Rocky Mountain region
- ✧ *How do you grow a roof? CSU Research Update July/August 2008 vol. 24 no. 4*
 - ✧ *Up on the roof CSU Research Update September/October 2008 vol. 24 no. 5*
- Boussetot, J.M., Badertscher, K.B., and Roll, M. 2005. [Sustainable Landscaping](#). Colorado State University Extension, Fact Sheet 7.243.
- Whiting, D. E., Boussetot, J., Cox, R. A., and O'Meara, C. 2004. *Pruning cuts*. Colorado State University Extension.
- Whiting, D. E., Boussetot, J., Cox, R. A., and O'Meara, C. 2004. *Pruning evergreens*. Colorado State University Extension.
- Whiting, D. E., Boussetot, J., Cox, R. A., and O'Meara, C. 2004. *Pruning flowering shrubs*. Colorado State University Extension.
- Whiting, D.E., Boussetot, J., Cox, R.A., and O'Meara, C. 2004. *Pruning mature shade trees*. Colorado State University Extension.
- American Society of Agronomy abstracts on maize, Indianapolis, Indiana, 2002, Denver, Colorado, 2003

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PEER REVIEWING

Peer reviewed many manuscripts from *HortScience*, *HortTech*, *Journal of Living Architecture*, *Urban Ecosystems*, *Journal of Environmental Management*, *American Journal of Experimental Agriculture*, *Landscape and Ecological Engineering*, *Landscape and Urban Planning*, *Environmental Science and Technology*, *The Crop Journal*, and *Green Roofs for Healthy Cities*

FUNDED GRANT PROPOSALS

CSU Office of Undergraduate Research Stipends (NSF funding). 2014. Funded \$3,000. Green roof propagule rooting substrate experiment. J. Boussetot, E. Snodgrass, L. Chapin, D. Bayne.
NCR SARE Graduate Student Grant. 2012. Funded \$9,902. Needs assessment for the establishment of food hubs using geographic information systems. K. Duerfeldt, J. Boussetot, C. Haynes.
Iowa Local Food and Farm Plan. 2011. Funded \$15,277. Needs assessment for the development of food hubs. K. Duerfeldt, J. Boussetot, C. Haynes.
Floriculture grant. 2010. Funded \$3,000. Green roof overseeding trial. J. Boussetot.
EPA Regional Applied Research Effort. 2007. Funded. \$183,520. Characterization of green roof performance parameters in the high elevation, semi-arid, temperate Colorado Front Range region. T. Slabe, J. Boussetot., J. Klett.

UNFUNDED GRANT PROPOSALS

Ecohealth literature review for David Suzuki Foundation. 2014. Unfunded \$23,995. A. Loder, J. Boussetot, S. Optiz-Stapleton.
Iowa Department of Agriculture and Land Stewardship specialty crop block grant. 2012. Unfunded \$23,902. Inventory of local foods, fruit and vegetable production in Iowa. K. Duerfeldt, C. Haynes, and J. Boussetot.
NCR SARE Research and Education Grant. 2012. Unfunded \$199,811. Spatial analysis of local foods production and distribution in the north central region. K. Duerfeldt, J. Boussetot, and C. Haynes.
EPA Regional Applied Research Effort. 2009. Unfunded \$199,948. Continuation of 2007's RARE Project: Characterization of green roof performance parameters in the high elevation, semi-arid, temperate Colorado front range region. T. Slabe, J. Boussetot., J. Klett., R. Koski.

RADIO EXPERIENCE

July 16, 2010 WOI *Horticulture Day*: Iris Care + live call in questions (1 hour)
November 5, 2010 WOI *Horticulture Day*: Green Roofs + live call in questions (1 hour)
February 13, 2011 WHO *Gardening Today*: Green Roofs + live call in questions (2 hours)
March 4, 2011 WOI *Horticulture Day*: HomeGrown LifeStyles Extension program + live call in questions (1 hour)
April 15, 2011 WOI *Horticulture Day*: Spring Planting + live call in questions (1 hour)
May 13, 2011 WOI *Horticulture Day*: Spring Garden Care + live call in questions (1 hour)
June 17, 2011 WOI *Horticulture Day*: Vegetable Gardening Activities + live call in questions (1 hour)
July 15, 2011 WOI *Horticulture Day*: Native American maize + live call in questions (1 hour)
August 12, 2011 WOI *Horticulture Day*: Edible Landscaping + live call in questions (1 hour)
September 23 2011 WOI *Horticulture Day*: Monarchs + live call in questions (1 hour)
October 21, 2011 WOI *Horticulture Day*: Fall Garden Care + live call in questions (1 hour)
November 6, 2011 WHO *Gardening Today*: Online Classes, School Gardening in the Virgin Islands + live call in questions (2 hours)
March 30, 2012 WOI *Horticulture Day*: School Gardening on St. John + live call in questions (1 hour)