

# Elisabeth Meyer

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## EDUCATION

- M.S. in Horticultural Science, Dr. Thomas G. Ranney, advisor  
*North Carolina State University, Raleigh, NC - 8/2006-5/2009*  
Thesis topic: Breeding, Propagation, and Disease Resistance of *Gordoniae* (Theaceae) Trees (*Franklinia*, *Gordonia*, and *Schima*) and *In Vitro* Regeneration, Ploidy Manipulation, and Mutation of *Hypericum* sp.  
GPA: 3.97
- B.S. in Botany, Minor in Horticultural Science  
B.A. in English  
*North Carolina State University, Raleigh, NC - 8/2001-5/2006*  
GPA: 4.0, Valedictorian, Summa Cum Laude

## WORK EXPERIENCE [Teaching portfolio available upon request]

- ❖ *Instructor, North Carolina State University, January 2010-Present*
  - Develop and teach Home Plant Propagation and Home Landscape Maintenance with both online, distance education (DE) and face-to-face (FTF) course sections
    - Develop image-rich, PowerPoint based lectures with discussion topics for enrichment of student learning that are accessible to DE and face-to-face students
    - Add voice and textual narration to lectures for DE students
    - Developed a variety of evaluation tools to test student knowledge gain and retention
    - Course evaluations: (Unavailable for Home Plant Propagation during Summer 2010)

Semester	Year	Course overall	Instructor overall	Number of evaluations	Number enrolled	Dept. mean
<b>HS 203, Home Plant Propagation</b>						
Fall (FTF)	2011	5.0 <sup>2</sup>	5.0	5	5	4.6
Spring (FTF)	2011	4.9	4.9	9	10	4.7
Selected student comments:						
<p>“I have learned more in this class than I have any other horticulture class I have taken. Not only is the instructor very receptive to students, but she also made learning fun through games and actually doing the activities that we learn in class. It was my favorite class in my entire semester schedule and I would suggest this instructor and her classes to my friends.”</p> <p>“Her passion for the material is evident through her teaching style and willingness to help students outside of the class room...Lis used the course website well and had it updated almost daily which included powerpoints, pdfs, and interactive study games to help learn the material.”</p> <p>“I have a BA in Education. This was the first college class I had taken since 1980...This experience was so positive I plan on working toward a second degree in horticulture.”</p>						
Fall DE	2011	5.0	5.0	3	7	4.6
Spring DE	2011	4.5	4.5	4	7	4.7
Selected student comments:						
<p>“The only comment I would make is to warn distance education students of the potential costs involved with class activities. This class was not really expensive, but it would be considerate to outline possible expenses for distance ed.” (<i>Suggestion implemented in following semester</i>)</p> <p>“Every time I had a question or concern, Lis Meyer was very responsive and helpful! She really did a great job at delivering the information for the course in a way that I understood the material. I would highly recommend this course by her to anyone. The course was very detailed, very well put together, and the flow of the course made sense. I thought it was challenging and fantastic all at the same time.”</p>						

Semester	Year	Course overall	Instructor overall	Number of evaluations	Number enrolled	Dept. mean
<b>HS 495, Home Landscape Maintenance</b>						
Summer DE	2011	5.0	5.0	3	9	4.7
Selected student comments: “I would try to give students an 8 or 10 question example quiz to see what kinds of questions they need to be prepared to answer.” <i>(Suggestion to be implemented during summer 2012)</i>  “I felt that the recorded lectures really helped me to better understand the material. The instructor gave great examples to explain course material and the assignments were challenging and reinforced the course material.”						

<sup>2</sup>Ratings: 1 = poor, 2 = fair, 3 = good, 4 = very good, 5 = excellent

- Teach both DE and FTF sections of Principles of Horticulture
  - Utilized existing teaching materials to instruct both DE and FTF students
  - Collaborated with another instructor to redesign and improve course teaching and student evaluation materials
  - Course evaluations:

Semester	Year	Course overall	Instructor overall	Number of evaluations	Number enrolled	Dept. mean
Fall FTF	2011	4.4	4.5	37	98	4.6
Selected student comments: “I think the course covered material it intended to thoroughly and efficiently, and as someone who has never taken a horticulture course before, a good introduction to horticulture as a whole.”  “Elisabeth Meyer was very thrilled to teach. She incorporated videos into her teaching technique which I thoroughly enjoyed and felt it beneficial into linking back what we were discussing in class. She was very knowledgeable about what she was teaching and portrayed that to the class. She was also very personable in the class room and when seen outside the classroom.”						
Fall DE	2011	4.8	4.9	12	24	4.6
Fall DE	2010	4.9	4.9	7	7	4.7

Selected student comments: “Am impressed with the quality of the distance courses and the instructor. Grateful that hort classes are available online!”  “Strong passion for the material, ability to organize and present information. Communication was prompt and speedy, responded to comments, and very personable; good feedback; fair grading.”  “Very friendly approach welcoming to those of us new to the field. Encouraged exchange of info between students. Was very positive in feedback instead of ‘dinging’ for mistakes. Very responsive by email when I had questions or problems with technical issues.”						
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- Served as co-instructor for senior level Tree and Grounds Maintenance lecture and laboratory
  - Course evaluations:

Semester	Year	Instructor overall	Number of evaluations	Number enrolled	Dept. mean
Spring	2010	4.5	32	34	4.7
Selected student comments: “Lis did an excellent job this semester teaching in Dr. Fair’s absence and running lab consistently.”  “Great sense of humor—dealt with the class well.” “This is the second class I’ve had with Lis, and she’s a much better teacher now.”					

- Assist in instruction of Plant Propagation labs for Agricultural Institute students
  - Course evaluations not available

- Acquired knowledge and skills in the use of various distance education programs including Moodle, Camtasia, and LecShare
- Develop study tools and hold review sessions for students in all sections of courses taught
- Advise Horticulture Undergraduate Certificate seeking students
- Assist in the management and marketing of the distance education program

❖ *Report Writer, Daussin and Associates, Inc., July 2009-December 2009*

- Compiled field and laboratory data using MS Word and Excel into pesticide registration reports for submission to the Environmental Protection Agency
- Performed quality control assessment of field and laboratory data for companies including BASF and Dupont, Inc.

❖ *Graduate Research/Teaching Assistant, North Carolina State University, August 2006-June 2009*

- Instructed students in plant identification for 500 ornamental plant species
- Planned, facilitated, and proctored indoor and outdoor plant identification exams
  - Course evaluations: Unavailable for Fall 2006 and 2007

Semester	Year	Lab overall	Instructor overall	Number of evaluations	Number enrolled	Dept. mean
Spring	2007	4.8	4.8	5	26	4.5
Fall	2005	4.7	4.8	6	7	

Selected student comments:  
 “Excellent TA. Very approachable, intelligent, and responsive teacher.”  
  
 “Knows her plants very well. Would make a good ID professor.”

- Evaluated new ornamental hybrids for disease resistance
- Developed seed and cutting propagation protocols for ornamental trees in the tea family
- Developed protocols for *in vitro* regeneration of ornamental St. John’s wort
- Manipulated ploidy and induced mutagenesis in *in vitro* cultures of ornamental St. John’s wort

❖ *Instructor, North Carolina State University, August 2008-December 2008*

- Filled departmental void following a retirement by managing and teaching one lecture and two lab sections for fall semester
  - Course evaluations:

Semester	Year	Course overall	Lab overall	Instructor overall	Number of evaluations	Number enrolled	Dept. mean
Fall	2008	4.5	4.8	4.6	36	55	4.5

Selected student comments:  
 “Lis did a great job stepping up and teaching this difficult course. She always kept us up to date on what was going on with the course, and always offered to help out side of class.”  
  
 “Very good teacher. Would make a great permanent instructor for the course.”

- Instructed students in ornamental plant identification and culture
- Trained two teaching assistants in ornamental plant identification
- Developed interactive lesson plans to facilitate student comprehension

❖ *Summer Intern, Arnold Arboretum of Harvard University, May 2006-August 2006*

- Assisted in the planning and installation of renovations at a historic garden site
- Received training through mini-courses in topics such as pruning, weed identification, and plant pathogens
- Received arborist training, including tree climbing
- Operated heavy equipment including bucket trucks, front-end loaders, backhoes, etc.

- ❖ *Lab Assistant, NCSU Center for Applied Aquatic Ecology, September 2001-May 2006*
  - Gathered water samples from lakes for nutrient and algal toxin testing
  - Prepared algal samples for chlorophyll extraction
  - Prepared media for algal cultures and grew cultures in a laboratory environment
  - Performed DNA extractions, RAPD-PCR, and gel electrophoresis
- ❖ *Summer Intern, NCSU J.C. Raulston Arboretum, May 2005-August 2005*
  - Propagated a variety of plant species by cuttings
  - Mixed soil media for cuttings and potted plants
  - Built retaining wall for raised garden
  - Performed routine maintenance tasks including mulching, weeding, dead-heading, and pruning

## AWARDS & HONORS

NACTA Graduate Student Teaching Award Recipient, 2008  
 University Outstanding Teaching Assistant Award, 2007  
 Sidney B. Meadows Scholarship Recipient, 2008  
 MS Section Student Paper Competition, Ann. SNA Research Conference—1<sup>st</sup> Place, 2009; 3<sup>rd</sup> Place, 2008

## ACTIVITIES & MEMBERSHIPS

Pi Alpha Xi Horticultural Honor Society (Vice President, 2007-2008)  
 Campus Crusade for Christ (Leadership, Database Management 2002-2007)  
 Phi Kappa Phi Honor Society  
 Phi Beta Kappa Honor Society  
 Gamma Sigma Delta Honor Society for Agriculture  
 North American Colleges and Teachers of Agriculture  
 Garden Club at Raleigh Girls' Club  
 Caldwell Fellows Scholar  
 NCSU Scholars Program

## PUBLICATIONS

- Meyer, E.M. and H.T. Kraus. 2011. Engaging communities through distance education. *NACTA Journal* 55(supp. 1): 84.
- Meyer, E.M., T.G. Ranney, T.A. Eaker, and K. Ivors. 2009. Differential tolerance of *Gordonieae* trees to *Phytophthora cinnamomi*. *HortScience* 44(5):1484-1486.
- Meyer, E.M., A.V. LeBude, and T.G. Ranney. 2009. Vegetative propagation of *Gordonieae* trees by stem cuttings. *J. of Environ. Hort.* 27(4):191-194.
- Meyer, E.M., D.H. Touchell, and T.G. Ranney. 2009. *In vitro* shoot regeneration and polyploid induction from leaves of *Hypericum* sp. *HortScience* 44(7):1957-1961.

## PROCEEDINGS & EXTENSION PUBLICATIONS

- Meyer, E.M., D.H. Touchell, and T.G. Ranney. 2009. *In vitro* shoot regeneration from leaves of *Hypericum* sp. *Proc. SNA Res. Conf.* 54:464-468.
- Meyer, E.M., A.V. LeBude, and T.G. Ranney. 2008. Propagation of *Gordonieae* trees by hardwood stem cuttings. *Proc. SNA Res. Conf.* 53:206-209.
- Meyer, E.M., T.G. Ranney, T.A. Eaker, and K. Ivors. 2007. Breeding and evaluating *Franklinia*, *Gordonia*, *Schima*, and their hybrids. 2007 Nursery Crops Field Day Guide p.15.

## EXTENSION PRESENTATIONS

- Southern Nursery Association (SNA) Research Conference and Trade Show, 2008, 2009.
- Henderson County Certified Plant Professional Course—Tree Identification, 2008.
- Nursery Crops Field Day, Mills River, NC, 2007.