

MARIËLLE H. HOEFNAGELS
Curriculum vitae

CONTACT INFORMATION

Departments of Botany/Microbiology and Zoology
University of Oklahoma
Norman, OK 73019
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EDUCATION

- 1997 **Ph.D.**, Botany and Plant Pathology, Oregon State University, Corvallis, OR
Thesis title: Biology and control of *Fusarium* spp. on Douglas-fir
(*Pseudotsuga menziesii*)
Advisor: Dr. Robert Linderman
- 1991 **M. S.**, Soil Science, North Carolina State University, Raleigh, NC
Thesis title: Vesicular-arbuscular mycorrhizal fungi in North Carolina salt
marshes
- 1987 **B. S.**, *Summa cum laude*, Environmental Science, University of California,
Riverside, CA

POSITIONS HELD

- 2008-
present **Associate Professor**, Depts. of Botany/Microbiology and Zoology,
University of Oklahoma, Norman, OK.
- 2001-2008 **Assistant Professor**, Depts. of Botany/Microbiology and Zoology,
University of Oklahoma, Norman, OK.
- 1997-2001 **Lecturer**, Depts. of Botany/Microbiology and Zoology, University of
Oklahoma.
- 1991-1996 **Graduate Research Assistant**, Dept. of Botany and Plant Pathology,
Oregon State University, Corvallis, OR
- 1992 **Graduate Teaching Assistant**, Dept. of Botany and Plant Pathology,
Oregon State University.
- 1989-1991 **Graduate Research Assistant**, Dept. of Soil Science, North Carolina
State University, Raleigh, NC
- 1990 **Graduate Teaching Assistant**, Dept. of Soil Science, North Carolina
State University.
- 1987-1989 **Laboratory Assistant**, Dept. of Forest Science, Oregon State University.

COURSES TAUGHT

1997- present	University of Oklahoma: Concepts in Biology (nonmajors, general education course) BioWriting (scientific writing class) Introduction to Microbiology General Mycology Contemporary Issues in Biology (online) Zoology Senior Capstone courses (topics: biological terrorism, genetically modified foods)
1992	Oregon State University (teaching assistant): Plant Physiology
1990	North Carolina State University (teaching assistant): Soil Science

AWARDS AND HONORS

Awards (most significant awards highlighted in bold)

2012	Finalist, Revision of the Year in Science/Education/Math (Hoefnagels <i>Biology: Concepts and Investigations</i> , 2 nd edition), McGraw-Hill National Sales Meeting)
2010	Integrity Apex Award, OU Integrity Council (for efforts to foster and promote academic integrity at OU) Selected as one of “Pi Phi’s Phinest Profs”
2009	Sabbatical leave, January 2009-December 2009 First Edition of the Year in Science/Engineering/Math (Hoefnagels <i>Biology: Concepts and Investigations</i>), McGraw-Hill National Sales Meeting Invited attendee, 2009 Education Imperative: Focus on Solving Critical Issues in Education; McGraw-Hill, New York City
2006	Honorary member, Alpha Lambda Delta National Academic Honor Society for Freshmen
2005	Longmire Prize , the Teaching Scholars Award awarded by the College of Arts and Sciences for contributions to scholarship of teaching Distinguished member, National Society of Collegiate Scholars
2003	University of Oklahoma General Education Teaching Award (University-wide award to the professor “whose quality of teaching is considered to have contributed most to the University-wide general education program”) Honorary member, Golden Key International Honour Society
1999	Alpha Phi Omega “Leaders of the 21 st Century”

Miscellaneous honors

2010	Featured professor (with video profile), integrity.ou.edu
2005-2008	Featured professor (with video profile), OU Prospective Student Services

TEXTBOOKS PUBLISHED

- Hoefnagels, M.** 2013. *Biology: The Essentials*. McGraw-Hill Corporation. (University-level biology textbook for nonmajors, published in January 2012; 631 pages).
- Hoefnagels, M.** 2012. *Biology: Concepts and Investigations*. 2nd edition. McGraw-Hill Corporation. (University-level non-majors biology textbook published Jan. 2011; 820 pages).
- Hoefnagels, M.** 2009. *Biology: Concepts and Investigations*. McGraw-Hill Corporation. (University-level non-majors biology textbook published Jan. 2008; 859 pages).
- Lewis, R., B. Parker, D. Gaffin, and **M. Hoefnagels**. 2007. *Life, 6th edition*. McGraw-Hill Corporation. [University-level general biology textbook published in 2006]
- Lewis, R., D. Gaffin, **M. Hoefnagels**, B. Parker. 2004. *Life, 5th edition*. McGraw-Hill Corporation. (University-level general biology textbook published Jan. 2003).
- Lewis, R., D. Gaffin, **M. Hoefnagels**, B. Parker. 2002. *Life, 4th edition*. McGraw-Hill Corporation. (University-level general biology textbook).

TEXTBOOKS IN PREPARATION

- Hoefnagels, M.** 2015 (projected). *Biology: Concepts and Investigations*. 3rd edition. McGraw-Hill Corporation. (University-level non-majors biology textbook to be published Jan. 2014)

PUBLICATIONS

- Walvoord, Mark E. and **Mariëlle H. Hoefnagels**. 2011 Conversion Immersion: Converting Old and Writing New Clicker Questions for Your Biology Courses. Pages 172-183, in *Tested Studies for Laboratory Teaching*, Volume 32 (K. McMahon, Editor). Proceedings of the 32nd Conference of the Association for Biology Laboratory Education (ABLE), June 22-25, 2010. Dalhousie University, Halifax, Nova Scotia. 383 pages.
<http://www.ableweb.org/volumes/vol-32/v32reprint.php?ch=1> [major workshop; refereed] [PDF]
- Hoefnagels, Mariëlle** and Douglas Gaffin. 2010. Computerized Pre- and Post-lab Assignments on LON-CAPA. In: *Tested Studies for Laboratory Teaching*. Kari Clase, Editor. Proceedings of the 31st Workshop/Conference of the Association for Biology Laboratory Education (ABLE). June 8-13, 2009. University of Delaware, Newark. [mini workshop; refereed] [PDF]
- Hoefnagels, Mariëlle H.** 2009. Museum ecology: using fine art to reinforce ecological concepts. In: *Tested Studies for Laboratory Teaching*. Kari Clase, Editor. Proceedings of the 30th Workshop/Conference of the Association for Biology Laboratory Education (ABLE). June 3-7, 2008. University of Toronto, Mississauga. [major workshop; refereed] [PDF]
- Hoefnagels, Mariëlle** and Mark E. Walvoord. 2008. Conversion Immersion, Version 2.0: Working Together to Create Investigative Labs. In: *Tested Studies for Laboratory Teaching*. M. A. O'Donnell, Editor. Proceedings of the 29th Workshop/Conference of the Association for Biology Laboratory Education (ABLE). June 5-9, 2007. University of Kentucky, Lexington. [major workshop; refereed] [PDF]

- Walvoord, M. E, **M. H. Hoefnagels**, D. D. Gaffin, D. Long, and M. Chumchal. 2008. An analysis of Calibrated Peer Review (CPR) in a science lecture classroom. *Journal of College Science Teaching* 37(4): 66-73. [[PDF](#)]
- Hoefnagels, Mariëlle**. 2007. You need a teaching philosophy—so write one! Pages 333-334, in *Tested Studies for Laboratory Teaching, Volume 28* (M.A. O'Donnell, Editor). Proceedings of the 28th Workshop/Conference of the Association for Biology Laboratory Education (ABLE), June 6-10, 2006, Purdue University, West Lafayette, IN. [mini workshop] [[PDF](#)]
- Hoefnagels, Mariëlle H** and Mark E. Walvoord. 2006. Chicken Wing Microbiology: A Lesson in Food Safety and Microbiological Technique. Pages 185-200 In: *Tested Studies for Laboratory Teaching*. M. A. O'Donnell, Editor. Proceedings of the 27th Workshop/Conference of the Association for Biology Laboratory Education (ABLE), June 21-25, 2005, Virginia Tech University, Blacksburg. [major workshop; refereed] [[PDF](#)]
- Hoefnagels, Mariëlle H.** and Mark E. Walvoord. 2005. Conversion Immersion: Working Together to Create Investigative Laboratories. pp. 111-120 In: *Tested Studies for Laboratory Teaching*. M. A. O'Donnell, Editor. Proceedings of the 26th Workshop/Conference of the Association for Biology Laboratory Education (ABLE). June 8-11, 2004, Bowling Green State University, Bowling Green, OH. [major workshop; refereed] [[PDF](#)]
- Hoefnagels, Mariëlle H.** 2005. Shooting for the impossible dream: a comprehensive catalog of fungal diversity (book review of *Biodiversity of Fungi: Inventory and Monitoring Methods*, edited by G. M. Mueller et al.). *Bioscience* 55(3): 280-282. [[PDF](#)]
- Hoefnagels, M.** 2003. Using superstitions and sayings to teach experimental design. In *Tested studies for laboratory teaching*, vol. 24 (M.A. O'Donnell, Editor). Proceedings of the 24th Workshop/Conference of the Association for Biology Laboratory Education (ABLE), 11-14 June 2002. [mini-workshop] [[PDF](#)]
- Hoefnagels, M. H.** and Rippel, S. A. 2003. Using superstitions and sayings to teach experimental design in beginning and advanced biology classes. *The American Biology Teacher* 65(4): 263-268. [[PDF](#)]
- Wallace, L., **M. Hoefnagels** and W. Ortiz. 2001. Is This Your Final Answer? *The Teaching Professor* 15(2):3.
- Hoefnagels, M. H.** 2001. *Symbiosis*. Pearson Custom Publishing. (Customized lab manual developed for BIOL 1005 and under continuous revision).
- Hoefnagels, M. H.** and R. G. Linderman. 1999. Biological suppression of seedborne *Fusarium* spp. during cold stratification of Douglas-fir seeds. *Plant Disease* 83: 845-853. [[PDF](#)]
- Hoefnagels, M. H.** and J. W. Pscheidt. 1997. *Centaurea cyanus* (Bachelor's button) -- Downy mildew. In: J. W. Pscheidt (ed) 1997 Pacific Northwest Plant Disease Control Handbook. Oregon State University, Corvallis, OR.
- Hoefnagels, M. H.** 1997. Biology and control of *Fusarium* spp. on Douglas-fir (*Pseudotsuga menziesii*). Ph.D. Thesis, Oregon State University, Corvallis.
- Linderman, R. G. and **M. Hoefnagels**. 1993. Controlling root pathogens with mycorrhizal fungi and beneficial bacteria. p. 132-135 In: Landis, T. (tech. coord.) Proc. Western Forest Nursery Association Meeting, 14-18 Sept. 1992, Fallen Leaf Lake, CA. U. S. Department of Agriculture Gen. Tech. Rep. RM-211. Rocky Mountain Forest and Range Experiment Station, Fort Collins, CO.

- Hoefnagels, M. H.**, S. W. Broome and S. R. Shafer. 1993. Vesicular-arbuscular (VA) mycorrhizae in salt marshes in North Carolina. *Estuaries* 16: 844-848. [PDF]
- Hoefnagels, M. H.** 1991. Vesicular-arbuscular mycorrhizae in North Carolina salt marshes. M.S. Thesis, North Carolina State University, Raleigh.

In press:

- Walvoord, Mark E. and **Mariëlle H. Hoefnagels**. 2012. A Toolbox for Giving Your Biology Laboratory a Pedagogical Makeover. In: Tested Studies for Laboratory Teaching. Karen McMahon, Editor. Proceedings of the 33rd Workshop/Conference of the Association for Biology Laboratory Education (ABLE). June 14-18, 2011. New Mexico State University, Las Cruces, NM. [major workshop; refereed]

Posters and Abstracts

- Gibson, J. Philip and **Mariëlle Hoefnagels**. 2011. Tree-Thinking In Introductory Biology Education. CCLI-TUES Conference, January 26-28, 2011. Washington, DC. [Poster]
- Gibson, J.P. and **M. H. Hoefnagels**. 2011. A Tree-Thinking Curriculum for Introductory Biology. Evolution 2011. June 17 –22, 2011. Norman, Oklahoma.
- Gibson, J. Philip and **Mariëlle Hoefnagels**. 2011. Tree-Thinking In Introductory Biology Education. Tree-Thinking in Introductory Biology Evolution Education. Meeting of the Botanical Society of America. July 9-13, 2011. St. Louis, Missouri. [Poster]
- Jones, J. M. , J. T. Cooper, J. P. Gibson, and **M. H. Hoefnagels**. Pedagogy workshop enhances graduate students' teaching effectiveness of evolutionary and phylogenetic concepts. Annual Meeting of the Botanical Society of America. July 31 - August 4, 2010. Providence, Rhode Island. [Poster]
- Gibson, J. P. and **M. H. Hoefnagels**. A Tree-thinking Approach in Introductory Biology: Germination of the Idea. Annual Meeting of the Botanical Society of America. July 31 - August 4, 2010. Providence, Rhode Island. [Abstract]
- Yadon, C., L. Devenport, and **M. Hoefnagels**. 2004. Why least chipmunks (*Tamias minimus*) like moldy seeds: an investigation of reciprocal benefits. Oklahoma Psychological Society, Edmond, OK. 16 April 2004. [Poster]
- Hoefnagels, M. H.** 2001. Case study in biology education: an ongoing search for "real science" in non-majors labs. American Phytopathological Society North Central Division, Manhattan, KS 19-21 June 2001. [Poster]
- Wan, S., Luo, Y., Wallace, L., Belay, A., Hui, D., Kores, P., Krumholz, L. R., and **Hoefnagels, M.** 2000. Warming and clipping effects on tallgrass prairie: an experimental study. Ecological Society of America, Snowbird, UT 8 August 2000. [Poster]
- Hoefnagels, M. H.** and R. G. Linderman. 1996. Recovery of *Fusarium* spp. from Douglas-fir seeds. *Phytopathol.* 86: S65. [Abstract]
- Hoefnagels, M. H.** and R. G. Linderman. 1994. Evaluation of the antagonistic potential of cultivated and uncultivated nursery soils against the *Fusarium* root rot pathogen of conifer seedlings. *Phytopathol.* 84: 1137. [Abstract]

- Hoefnagels, M. H.** and R. G. Linderman. 1993. Research proposal: biological control of root diseases of Douglas-fir seedlings. p. 98 In: Proceedings of Graduate Congress 93, 25 April 1993, Oregon State University, Corvallis, OR [Abstract]
- Hoefnagels, M. H.,** S. R. Shafer and S. W. Broome. 1991. The occurrence of endomycorrhizal fungi with *Spartina patens* and *S. alterniflora* collected from salt marshes in North Carolina. Wetland Biogeochemistry Symposium, 11-13 Feb. 1991, Louisiana State University, Baton Rouge, LA [Abstract]

Other (non-peer-reviewed) publications

- Hoefnagels, Mariëlle.** Fall 2009. Welcome to the World of Podcasting. *Labstracts*. URL <http://www.ableweb.org/news/fall2009/hoefnagels-f09.htm>
- Hoefnagels, Mariëlle.** Summer 2009. Faculty profile, Bing Zhang. OU Zoology newsletter. http://zoology.ou.edu/pdf_documents/Newsletter/Zoology%20Newsletter%20Summer%202009.pdf
- Hoefnagels, Mariëlle.** 2007. Clicker Madness. Article for The Legacy, the Botany-Microbiology newsletter. URL <http://www.ou.edu/cas/botany-micro/legacy4.pdf>
- Hoefnagels, Mariëlle.** Fall 2006. Beetle Mania: A Mini Workshop Review. *Labstracts*. URL <http://www.ableweb.org/news/fall2006/hoefnagels-f06.htm>
- Hoefnagels, M.** Fall 2005. From the Editor's Desk: Thanks, Roberta and Charlie. *Labstracts*. URL <http://www.ableweb.org/news/fall2005/hoefnagels-ed-f05.htm>
- Hoefnagels, M.** Winter 2005. From the Editor's Desk: See you in Virginia! *Labstracts*. URL: <http://www.ableweb.org/news/winter05/hoefnagels-ed-w05.htm>
- Hoefnagels, M.** Fall 2004. From the desk of the editor: the results are in! *Labstracts*. URL: <http://www.ableweb.org/news/fall2004/hoefnagels-editor-f04.htm>
- Hoefnagels, M.** and Walvoord, M. Fall 2004. Conversion immersion revisited: a fictional scenario may make all the difference. *Labstracts*. URL: <http://www.ableweb.org/news/fall2004/hoefnagels-walvoord-conversion-f04.htm>
- Hoefnagels, M.** Winter 2004. From the desk of the editor: a new way to teach. *Labstracts*. URL: <http://www.ableweb.org/news/winter04/hoefnagels-editor-w04.htm>
- Hoefnagels, M.** Winter 2004. Why do students hate lab? *Labstracts*. URL: <http://www.ableweb.org/news/winter04/hoefnagels-article-w04.htm>
- Hoefnagels, M.** Fall 2003. From the desk of the editor. *Labstracts*. URL: <http://www.ableweb.org/news/fall2003/hoefnagels-editor-f03.htm>
- Hoefnagels, M.** Fall 2003. What the newbies thought about the 2003 ABLE meeting. *Labstracts*. URL: <http://www.ableweb.org/news/fall2003/hoefnagels-article-f03.htm>
- Hoefnagels, M.** Fall 2002. Students have changed -- should you change too? *Labstracts*. URL: <http://www.ableweb.org/news/fall2002/hoefnagels-p4-f02.htm>

INVITED TALKS

- 2010 National Association of Biology Teachers, Minneapolis, MN (Integration of Technology Into the Introductory Biology Classroom; invited by Four-Year College Section of NABT) [with Michael Windelspecht]
 National Association of Biology Teachers, Minneapolis, MN (Tree Thinking in Introductory Biology) [with Phil Gibson]

- Native Plant Society, Norman, OK (The Fungi: An Overview of the Forgotten Kingdom)
- Oklahoma Master Gardeners, Norman, OK (The Fungi: An Overview of the Forgotten Kingdom)
- 2009 Teaching Scholars Initiative Colloquium (with Douglas Gaffin) (Score One for the Faculty: An Online Tool That Actually Makes Students Learn), University of Oklahoma
- McGraw-Hill Biology Media Conference, Dubuque, Iowa (Computerized Homework Assignments on LON-CAPA)
- McGraw-Hill Introductory Biology Symposium, Napa, CA (LON-CAPA: It's great ... It's awful ... and it's definitely UGLY)
- 2008 Teaching Scholars Initiative Colloquium (with Nicole Judice Campbell) (Discover Clickers (Your Class Will Never Be the Same)), University of Oklahoma
- Oklahoma Association of Community Colleges, Midwest City, OK (Get Into Your Students' Heads: Use Technology to Boost Learning)
- McGraw Hill General Biology Symposia in Santa Fe (NM) and Tucson (AZ); led group discussions on classroom technology
- 2007 National Association of Biology Teachers, Atlanta, GA (Using Multiple Technologies to Encourage Active Learning in a Non-Majors Biology Course; invited by Four-Year College Section of NABT)
- University of Oklahoma Zoology Department seminar (Classroom Technology for Everyone)
- University of Oklahoma Advising Workshop (panelist for session on online teaching)
- University of Oklahoma Botany-Microbiology Department Centennial Celebration (Keeping the Classroom Clicking: An Innovative Way to Reach Students)
- University of Oklahoma Program for Instructional Innovation workshop (Powerful PowerPoint)
- 2006 Teaching Scholars Initiative Colloquium (Desperate Teachers: Sexing Up Your Teaching Philosophy), University of Oklahoma
- 2000-2007 College of Engineering and University College Freshman seminar for Women in Science and Engineering, University of Oklahoma (annually in fall)
- 2004 Teaching Scholars Initiative Colloquium (Calibrated Peer Review), University of Oklahoma
- 2003 Texas Community College Teachers Association, Austin, TX
- McGraw-Hill sales meeting, New Orleans, LA; explained use of PowerPoint in lectures
- Talk on fungi to Norman North High School ecology club
- 2002 University of Oklahoma Botany Department seminar series
- McGraw Hill General Biology Symposia in Austin (TX), Tallahassee (FL), Anaheim (CA), Key West (FL); led group discussions
- 2001 Sam Noble Oklahoma Museum of Natural History, Botany lecture series

- 1999 McGraw Hill General Biology Symposium IV. Key West, FL.
 University of Oklahoma Botany-Microbiology seminar series
 1998 Association for Women in Science, University of Oklahoma, Norman
 1997 University of Oklahoma Zoology Department seminar series
 University of Oklahoma Botany Department seminar series

OTHER WORKSHOP, PAPER, AND POSTER PRESENTATIONS

- 2011 Association for Biology Laboratory Education, New Mexico State University, Las Cruces, NM (major workshop entitled “A Toolbox for Giving Your Biology Laboratory a Pedagogical Makeover”) [with Mark Walvoord]
- 2010 Association for Biology Laboratory Education, Dalhousie University, Halifax, Nova Scotia (major workshop entitled “Conversion Immersion: Clicker Question edition”) [with Mark Walvoord]
- 2009 Association for Biology Laboratory Education, University of Delaware, Newark (mini workshop entitled “Computerized pre- and post-lab assignments on LON-CAPA”)
- 2008 Association for Biology Laboratory Education, University of Toronto, Mississauga (major workshop entitled “Museum Ecology: Using Fine Art to Reinforce Ecological Concepts”)
- 2007 Association for Biology Laboratory Education, University of Kentucky, Lexington (major workshop entitled “Conversion Immersion, Version 2.0: Working Together to Create Investigative Labs”) [with Mark Walvoord]
- 2006 Teaching Scholars Initiative Colloquium (Desperate Teachers: Sexing Up Your Teaching Philosophy), University of Oklahoma
 Association of Biology Laboratory Education, West Lafayette, IN (mini workshop entitled “You Need a Teaching Philosophy – So Write One!”)
 National Association of Biology Teachers, Albuquerque, NM (hands-on workshop entitled “Juicy Secrets for Spicing Up Your Teaching Philosophy”)
- 2005 Association of Biology Laboratory Education, Blacksburg, VA (major workshop entitled “Chicken Wing Microbiology”) [with Mark Walvoord]
- 2004 Association of Biology Laboratory Education, Bowling Green, OH (major workshop entitled “Conversion Immersion: Working Together to Create Investigative Laboratories”) [with Mark Walvoord]
 Workshops on Calibrated Peer Review for College of Arts and Sciences Teaching Scholars Initiative colloquium, CAS online course discussion group, and Instructional Development faculty discussion group
- 2003 Calibrated Peer Review, OU Instructional Development Program (two workshops)
- 2002 Association of Biology Laboratory Education, Baton Rouge, LA (mini workshop entitled “Using Superstitions and Sayings to Teach

- Experimental Design”)
- 2001 American Phytopathological Society North Central Division, Manhattan, KS (poster)
- 1999 Oklahoma Academy of Science, Oklahoma City, OK
- 1996 North Willamette Research Experiment Station Nursery Day, Wilsonville, OR
- Graduate Student Conference '96, Corvallis, OR
- Soil Fungus Conference, Troutdale, OR
- Biology Graduate Student Symposium, Newport, OR
- American Phytopathological Society Annual Meeting, Indianapolis, IN (poster)
- 1995 14th Nursery Pathology Workshop, Poulsbo, WA
- Graduate Student Congress '95, Corvallis, OR (poster)
- 1994 American Phytopathological Society Annual Meeting, Albuquerque, NM (poster)
- 1993 Graduate Student Congress '93, Corvallis, OR (poster)
- 1991 Wetlands Biogeochemistry Symposium, Baton Rouge, LA

GRANTS AWARDED -- EXTERNAL

- National Science Foundation (with Phil Gibson), January 2010 through December 2012, \$149,992 [*Tree-thinking in Introductory Biology Evolution Education*]
- Association for Biology Laboratory Education, Summer 2002, \$1541.29 [*for purchase of electrophoresis rigs for Concepts in Biology lab*]

GRANTS AWARDED -- INTERNAL

- College of Arts and Sciences Instructional Computing Grant (with Doug Gaffin), Spring 2008, \$2,450 [*for implementing LON-CAPA in Introductory Zoology and Concepts in Biology*]
- College of Arts and Sciences Instructional Computing Grant, Fall 2002, \$2,800 [*for purchase of new computer equipment for Concepts in Biology lab*]
- Undergraduate Research Opportunities Program Grant (with Kassi Martens), Fall 2002, \$452 [*for purchase of supplies for honors research project*]
- Undergraduate Research Opportunities Program Grant (with Laura Gilley), Fall 2000, \$273 [*for purchase of supplies for honors research project*]
- Undergraduate Research Opportunities Program Grant (with Jamie Storm), Spring 2000, \$479 [*for purchase of supplies for independent research project*]
- College of Arts and Sciences Faculty Enrichment Grant, Spring 1999, \$995 [*for purchase of Biolog plates for research project*]
- Undergraduate Research Opportunities Program Grant (with Joy Wall), Spring 1999, \$495 [*for purchase of supplies for honors research project*]
- University Research Council (with Y. Luo, L. Wallace, L. Krumholz), Spring 1999, \$9,995 [*to finance setup of warming plots at Kessler farm*]
- College of Arts and Sciences Instructional Computing Grant, Fall 1998, \$14,000 [*for purchase of computer and projection equipment for Concepts in Biology lab*]

PROFESSIONAL SOCIETY MEMBERSHIPS

Association for Biology Laboratory Education
National Association of Biology Teachers
Text and Academic Authors Association

MANUSCRIPT REVIEWS

2009 CBE-Life Sciences Education
2005 Norton Publishing Co. (reviewed two chapters for Cain et al. *Discover Biology* 3rd ed.)
2004 Petroleum Research Fund
2003 Proceedings of the Oklahoma Academy of Science
Wetlands
Bioscience
McGraw-Hill (reviewed and revised 12 chapters for Raven et al. *Biology* 7th ed.)
2000 Manual of Microbiological Methods, 2nd edition
Journal of Tropical Forest Science
1999-present McGraw-Hill
1999 National Science Foundation Division of Undergraduate Education
1998 Addison Wesley Longman
1997 Environmental Science and Technology
Connecticut Sea Grant College Program

STUDENTS ADVISED

Graduate Student Committees

2009-present Jessica Steer (Ph.D., Microbiology)
2006-2007 Nydia Castaneda (Ph.D., Microbiology)
2005-2010 Cody Sheik (Ph.D., Microbiology)
2003-2007 Shari Jones (Ph.D., Microbiology)
2002-2005 Bo Su (Ph.D., Botany),
2002-2004 Asfaw Tedla (M.S., Botany)
1998-2002 Shelby Mattison (M.S., Botany)

Undergraduate Honors Students

2002-2003 Kassi Martens Stockert (Microbiology)
2000-2001 Laura Gilley (Microbiology)
1999 Joy Wall (Microbiology)

Undergraduate Independent Study Students

2006 Jessica Staley (Science Education)
2005 Kristin Chappell (Science Education)
2004 Andie Nix (Science Education)
2003 Terri Turner (Microbiology)
2002 Krystal Davis, Domonique Delaney (Microbiology)
2000 Jamie Storm (Science Education)
1999 Dorothy Lambe (Microbiology)

Undergrad. Capstone (Botany) or Honors Thesis (Zoology) or Senior Thesis (Microbiology) Committees

2011	Gabriel Campbell (Botany – chair), Maggie Warner (Botany), Nate Weygant (Botany), Ryan Makipour (Microbiology)
2010	Shannon Phillips (Botany)
2009	Valarie McMurtry (Botany)
2008	Lupita Borja (Botany)
2006	Barbara Shove (Botany), Martin Villafana (Microbiology), Justin Nalagan (Zoology), Trang Nguyen (Zoology)
2005	Brooke Estevez (Zoology)
2002	Luke Farber, Amy Ramsey (Botany)
2001	Christopher Bickford (Botany), Alexander Lau (Zoology)
1999	Paige Pierce, Amy Howard (Botany)

Academic Advisement

1997-present	Academic advisor for approximately 25-30 microbiology undergraduates annually
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SERVICE

Service to Professional Societies

2008-present	Member-at-Large, Association for Biology Laboratory Education (4-year term ending 2012)
2006-2007	Managing Editor and Chair of Website Committee, Association for Biology Laboratory Education
2005	Member, Editorial Review Board, Tested Studies for Laboratory Teaching (Association for Biology Laboratory Education)
2004	Helped organize the 2004 American Arachnology Society meeting hosted at the University of Oklahoma
2003-2006	Editor, <i>Labstracts</i> (online newsletter of Association for Biology Laboratory Education)

University and Departmental Committees

2010-2011	Chair, Botany-Microbiology department scholarship committee
2008	University Libraries Textbooks on Reserve Ad Hoc Review Committee Goldwater scholars selection committee Zoology webpage and publicity committee
2007-2010	College of Arts and Sciences Advisory Committee on Women's Issues
2007-2008	Secretary, Fred Jones Jr. Museum of Art Association Board
2006-2007	Member, Fred Jones Jr. Museum of Art Association Board Botany-Microbiology department search committee for microbial ecologist
2005-2008	Provost's Advisory Committee on Women's Issues (co-chair 2006-2007) Teaching Scholars Initiative steering committee Botany-Microbiology ambassador to Program for Instructional Innovation Zoology department ad hoc committee on evaluating teaching

2005-2007	Chair, committee for renovation of new teaching lab (GLCH 223)
2005-2006	Co-chair, search committee for introductory biology professor
2004-2005	Botany-Microbiology department search committee for microbial physiologist
2003-2009	Botany-Microbiology department budget committee
2003-2010	Botany-Microbiology department scholarship committee
2003	Chair, Zoology department name committee
	Provost's ad hoc committee on renewable term faculty representation on Faculty Senate
2002-present	Chair, College of Arts and Sciences Academic Appeals and Misconduct Committee
	Chair, Pre-medical Interview Committee, University of Oklahoma English Assessment Program proficiency exams (TEACH tests)
2002-2003	Information Technology Council subcommittee on teaching needs
	Information Technology Course Management Systems consulting group
	Zoology department Undergraduate Studies Committee
2002	Botany-Microbiology department search committee for molecular ecologist
2001-2005	Goldwater scholars selection committee
2001-2003	Henderson scholarship selection committee
2001-2002	College of Arts and Sciences Academic Appeals and Misconduct Committee
2001-2002	Intervention Strategies Subcommittee of Graduation Rate Task Force
2000-2001	Zoology-Botany-Microbiology general biology talks
2000	Selection Committee for President's Award for Outstanding Sophomores
1999-2001	Zoology Dept. Adams Scholarship Committee
1998-2001	University Honors Council
1998-1999	Botany-Microbiology subcommittee, review of departmental operations
1997-2001	Pre-medical Committee Interview member, University of Oklahoma

Other University and Community Service

2011	Numerous seminars on study skills for science classes
	Guest lecturer (Faculty Relations), University College UC Action PLA training conference
	Attended President's Community Scholars annual fall retreat (overnight)
	Guest lecturer (LON-CAPA), Learning Teaching Writing Symposium
	Presentations to Graduate Teaching Academy (Teaching Students How to Learn in Classes of All Sizes; Developing Your Teaching Philosophy)
	Interdisciplinary breakout session (Engaging Assignment Strategies), campus-wide Teaching Assistant Orientation
	Botany-Microbiology Department representative to Oklahoma State

Regents for Higher Education Course Equivalency Project
 2010 Numerous seminars on study skills for science classes
 Presentation to Graduate Teaching Academy (Challenges of Teaching Large Classes)
 Interdisciplinary breakout session (Engaging Assignment Strategies), campus-wide Teaching Assistant Orientation
 2009 Camp Crimson Namesake, Sooner Session (July 22-25)
 Seminars on study skills for science classes
 Developed interdisciplinary breakout session (Engaging Assignment Strategies), campus-wide Teaching Assistant Orientation
 2007 Homecoming sidewalk chalking competition judge
 2006 Judge, OU Undergraduate Research Day
 2005 Judge, Norman High School science fair
 Interviewed for promotional video for Prospective Student Services
 Attended dinner with Arts and Sciences Leadership Scholars
 2004-2005 Adopt-a-Faculty: Walker President's Council
 Homecoming Walkabout Judge
 Residence Hall House Calls
 2004 Judge, McKinley Elementary School Invention Fair
 2003-2007 University of Oklahoma Freshman Mentoring Program
 Multiple presentations and seminars on study skills for science classes
 2003-2006 Led sessions on lecturing for OU All-TA training program
 2003-2004 New Sooner Orientation presentation on large classes
 2002-present Co-faculty advisor for OU Botanical Society
 2001 Lecturette, Adams Center Faculty-in-Residence
 Organized activity for Take Our Daughters to Work Day
 Exhibit about fungi for Jefferson Elem. School Outdoor Classroom Day
 Field trip with zoology club to Wichita Mountains
 2000-2001 Adopt-a-Faculty: Walker 10E, Cate Oliver
 University of Oklahoma Freshman Mentoring Program
 1999-2002 Zoology Dept. publicity coordinator
 1999 Judge, science fair at All Saints Catholic Church
 1998-2002 Phillips Scholars Mentor, University of Oklahoma
 1998-1999 Faculty advisor for student chapter of Amnesty International
 1998 Adapted advising database (Access) for Dept. of Bot-Micro., University of Oklahoma
 Judge, Graduate Student Research Competition, Univ. Oklahoma
 1997-2000 Faculty-in-Residence, Couch Center, University of Oklahoma
 1997 Judged artwork for University of Oklahoma architecture competition
 1997-present Faculty marshal, University of Oklahoma and/or College of Arts & Sciences commencement ceremonies