

**Curriculum Vitae  
Paul Steven Manos**

Duke University  
Box 90338  
Durham, NC 27708  
(919) 660-7358  
pmanos@duke.edu

**CURRENT TITLE**

Professor of Biology, Department of Biology, Duke University

**EDUCATION**

Ph.D. (Plant Systematics), Cornell University, Ithaca, NY, 1993. Thesis: Cladistic analyses of molecular variation in "higher" Hamamelididae and Fagaceae, and systematics of *Quercus* section *Protobalanus*. Major professor: Kevin C. Nixon.  
M.Sc. (Botany and Plant Physiology), Rutgers University, New Brunswick, NJ, 1985. Thesis: Allozyme variation in populations of six northeastern American red oaks. Major professor: David E. Fairbrothers.  
B.A. (with honors in Botany), Drew University, Madison, NJ. 1982.

**RESEARCH AND TEACHING POSITIONS HELD**

Professor of Biology, Duke University, 2010-  
Associate Professor of Biology, Duke University, 2002-2010.  
Assistant Professor of Botany/Biology, Duke University, 1995-2002.  
Instructor in Botany, Duke University, September, 1994-1995.  
A.W. Mellon Postdoctoral Fellow, Duke University, November, 1993-1994.  
Teaching Assistant, Cornell University, 1986-1987; 1990-1992.  
Research Assistant, Cornell University, 1988-1990. (Supervisor: J. I Davis)  
Assistant Instructor, William Paterson State College, NJ. 1985.  
Research Technician, Rutgers University, NJ. 1985. (Supervisor: R. C. Vrijenhoek)  
Teaching Assistant, Rutgers University, NJ. 1983-1985.

**AWARDS, HONORS AND FELLOWSHIPS**

Award for Distinguished Teaching and Service, Department of Biology, 2010  
George R. Cooley Award, American Society of Plant Taxonomists, 1995.  
A.W. Mellon Postdoctoral Fellowship, Duke University, 1993-1994.  
Outstanding Teaching Assistant Award, Cornell University, 1991 - 1992.  
Specialized Honors in Botany, Drew University, 1982.

## RESEARCH AWARDS

- 2008-2010: NSF DEB-0808427 "Edaphic factors in the diversification of *Ceanothus* L., subgenus *Cerastes* (Rhamnaceae). PI of Doctoral Dissertation Improvement Grant with Dylan Burge; \$11,989.
- 2006-2009: NSF DEB-0608310 "Invasion dynamics of the parasitic plant, *Epifagus virginiana*"; PI of Doctoral Dissertation Improvement Grant with Erica Tsai; \$12,000.
- 2005-2010: NSF DEB-0451962 "Macroevolutionary analysis of Fagaceae: a study of the pattern and process of woody plant diversification", Co-PI: S. Oh. \$300,000.
- 2006-2008: NSF DEB-0608363 "Systematics and pollinator transitions in the species-rich genus *Ruellia* (Acanthaceae); PI of Doctoral Dissertation Improvement Grant with Erin A. Tripp; \$11,900.
- 2005-2007: National Geographic Society # 7471-03 "Evolution, systematics and conservation of the black walnuts." Co-PI with Don Stone (PI). \$23,000.
- 2003-2005: NSF DEB-0309276 "Mating System Diversity in *Boerhavia* (Nyctaginaceae)", PI of Doctoral Dissertation Improvement Grant with Norm Douglas; \$10,180.
- 2001-2004: NSF DEB-0108690 "The phylogenetic biology of the paleotropical tree genus *Lithocarpus*"; \$202,720.
- 2001-2004: NSF DEB-0089769 "Rates of range expansion in eastern trees based on molecular and fossil records" Co-PI with James S. Clark; \$250,000.
- 1997-2001: NSF DEB-9707945 "A morphological and molecular investigation of castaneoid evolution"; \$155,000.
- 2001-2003: NSF DEB-0105089 "Evolution of floral pattern formation in *Hibbertia* (Dilleniaceae)" PI of Doctoral Dissertation Improvement Grant with Jay Horn; \$10,000.
- 2000-2002: NSF DEB-0073171 "Forest reponse to climate change: integrating seed dispersal models and molecular markers with paleoecological record", Co-PI of Doctoral Dissertation Improvement Grant with J.S. Clark (PI) and J.S. McLachlan; \$9,603.
- 1999-2001: NSF DEB-9972600 "Systematics and floral morphology evolution in the genus *Piper* (Piperaceae); PI of Doctoral Dissertation Improvement Grant with M. Alejandra Jaramillo; \$9,570.
- 1999-2001: NSF DEB-9972646 "Phylogenetic relationships in the Cistaceae (Rock Roses): Insight into the evolution of morphological form, biogeography and host-parasite associations", PI of Doctoral Dissertation Improvement Grant with Jennifer Arrington; \$10,000.
- 1989-1992: NSF BSR-8914616 "Phylogeny and Patterns of Differentiation in *Quercus* L. (Fagaceae)". Doctoral Dissertation Improvement Grant with Kevin C. Nixon (PI); \$11,400.

## FUNDING FOR TRAINING, ENRICHMENT AND WORKING GROUPS

- 2006-2008 Phytogeography of the Northern Hemisphere. Working group, National Evolutionary Synthesis Center (NESCent); Co-PI with M.J. Donoghue (PI).
- 2004-2006: NSF-DBI, "REU-SITES; Bioinformatic and phylogenetic approaches to the study of plant and fungal biodiversity". PI: Manos; Co-PI K. Pryer. \$144,951.00.

- 2000-2003: Program in Latin American Studies. Proposals for the continuation of the Duke-UNC Cuba Working Group. One of the 3 PIs; Drs. Handy and Perez from UNC; \$21,000.00
- 1999-2000: American Council of Learned Societies, Social Science Research Center (ACLS/SSRC) Working Group on Cuba. "Collaborations in Herbarium Curation and Systematic Botany", with M. Fernández, IES, Habana, Cuba, and P.S. Manos, Duke University, NC, USA; \$13,055.
- 1997-2002: A. W. Mellon Training Grant in Plant Systematics. One of 6 co-Principal Investigators; \$600,000.

## PUBLICATIONS

- Burge, D.O. and **P.S. Manos**. 2011. Edaphic ecology and genetics of the gabbro-endemic shrub *Ceanothus roderickii* (Rhamnaceae). *Madroño* 58: 000-000.
- Tsai, Y.-H. and **P.S. Manos**. 2010. Host density drives the postglacial migration of the tree parasite, *Epifagus virginiana*. *Proceedings of the National Academy of Sciences, USA*. 107: 17035-17040.
- Stone, D.E., S-H, Oh, E.A Tripp, L.E. Ríos, and **P.S. Manos**. 2009. Natural history, distribution, conservation and phylogenetic relationships of Central American black walnuts (*Juglans* section *Rhysocaryon*). *Journal of the Torrey Botanical Society* 136: 1-25.
- Manos, P.S.**, C.H. Cannon, and S-H. Oh. 2008. Phylogenetic relationships and taxonomic status of the paleoendemic Fagaceae of western North America: recognition of a new genus *Notholithocarpus*. *Madroño* 55: 181-190.
- Gugger, P.F., J.S. McLachlan, **P.S. Manos**, and J.S. Clark. 2008. Inferring long-distance dispersal and topographic barriers during post-glacial migration from the genetic structure of red maple (*Acer rubrum* L.) in New England. *Journal of Biogeography* 35: 1665-1673.
- Tripp, E.A. and **P.S. Manos**. 2008. Is floral specialization an evolutionary dead-end? Pollination system transition in *Ruellia* (Acanthaceae). *Evolution* 62: 1712-1737.
- Oh, S-H and **P.S. Manos**. 2008. Molecular phylogenetics and cupule evolution in Fagaceae as inferred from nuclear *CRABS CLAW* sequences. *Taxon* 57: 434-451.
- Willson, C.J., **P.S. Manos**, and R.B. Jackson. 2008. Hydraulic traits are influenced by phylogenetic history in the drought-resistant and invasive genus *Juniperus*. *American Journal of Botany* 95: 299-314.
- Manos, P.S.**, P.S. Soltis, D.E. Soltis, S.R. Manchester, S-H. Oh, C.D Bell, D.L. Dilcher, and D.E. Stone. 2007. Phylogeny of extant and extinct Juglandaceae inferred from the integration of molecular and morphological data sets. *Systematic Biology* 56: 412-430.
- Douglas, N.A. and **P.S. Manos**. 2007. Nyctaginaceae phylogeny, classification, and characters associated with a radiation of xerophytic genera in North America. *American Journal of Botany* 94: 856-872.
- Soltis, D.E., A. Morris, J. McLachlan, **P.S. Manos**, and P.S. Soltis. 2006. Comparative phylogeography of unglaciated eastern North America. *Molecular Ecology* 15: 4261-4293.
- Feng, Y., S-H. Oh, and **P.S. Manos**. 2005. Phylogeny and historical biogeography of the genus *Platanus* as inferred from nuclear and chloroplast DNA. *Systematic Botany* 30: 786-799.

- Devos, N., S-H Oh, O. Raspé, A-L Jacquemart, and **P.S. Manos**. 2005. Nuclear ribosomal DNA sequence variation and evolution of spotted marsh-orchids (*Dactylorhiza maculata* group). *Molecular Phylogenetics and Evolution* 36: 568-580.
- McLachlan, J.S., J.S. Clark, and **P.S. Manos**. 2005. Molecular indicators of tree migration capacity under rapid climate change. *Ecology* 86: 2088-2098.
- Whitson, M.K. and **P.S. Manos**. 2005. Untangling *Physalis* (Solanaceae) from the physaloids: a two-gene phylogeny of the Physalinae. *Systematic Botany*. 30: 216-230.
- Li R-Q, Z-D. Chen, A-M. Lu, D.E. Soltis, P.S. Soltis, and **P.S. Manos**. 2004. Phylogenetic relationships in Fagales based on DNA sequences from three genomes. *International Journal of Plant Sciences*. 165: 311-324.
- Jaramillo, M.A., **P.S. Manos**, and E.A. Zimmer. 2004. Phylogenetic relationships of the perianth-less Piperales: reconstructing the evolution of floral development. *International Journal of Plant Sciences* 165: 403-416.
- Miller, R.E., J.A. McDonald, and **P.S. Manos**. 2004. Systematics of *Ipomoea* subgenus *Quamoclit* (Convolvulaceae) based in ITS sequence data and a Bayesian phylogenetic analysis. *American Journal of Botany* 91: 1208-1216.
- Williams, K.J., W.J. Kress, and **P.S. Manos**. 2004. Appendages do matter: the phylogeny, evolution, and classification of the genus *Globba* and tribe Globbeae (Zingiberaceae). *American Journal of Botany* 91: 100-114.
- McDowell, T., M. Volovsek, and **P.S. Manos**. 2003. Biogeography of *Exostema* species in the Caribbean region in light of molecular phylogenetic analysis. *Systematic Botany* 28: 431-441.
- Cannon, C.H. and **P.S. Manos**. 2003. Phylogeography of the Southeast Asian stone oaks (*Lithocarpus*). *Journal of Biogeography* 30: 211-226.
- Miller, R.E., T.R. Buckley, and **P.S. Manos**. 2002. Application of Bayesian phylogenetic inference to the systematics of morning glories. *Systematic Biology* 51: 740-753.
- Cannon, C.H. and **P.S. Manos**. 2001. Combining and comparing morphometric shape descriptors with a molecular phylogeny: the case of fruit type evolution in Bornean *Lithocarpus* (Fagaceae). *Systematic Biology* 50:1-21.
- Jaramillo, M.A. and **P.S. Manos**. 2001. Phylogeny and patterns of floral diversity in the genus *Piper* (Piperaceae). *American Journal of Botany* 88: 706-716.
- Krellwitz, E.C., K.V. Kowalik and **P.S. Manos**. 2001. Molecular and morphological analyses of *Bryopsis* (Bryopsidales, Chlorophyta) from the western North Atlantic and Caribbean. *Phycologia* 40:330-339.
- Manos, P.S.** "Fagales". 2001. *Encyclopedia of Life Sciences*, Macmillan Reference Ltd.
- Manos, P.S.** and M.J. Donoghue. 2001. Progress on Northern Hemisphere phytogeography: An Introduction. *International Journal of Plant Sciences*. 162 (suppl.):S1-S2.
- Manos, P.S.**, R.E. Miller and P. Wilkin. 2001. Phylogenetic analysis of *Ipomoea*, *Argyrea*, *Stictocardia*, and *Turbina* suggests a generalized model of morphological evolution in morning glories. *Systematic Botany* 26:585-602.
- Manos, P.S.** and A.M. Stanford. 2001. The biogeography of Fagaceae: tracking the Tertiary history of temperate and subtropical forests of the Northern Hemisphere. *International Journal of Plant Sciences*. 162 (suppl.):S77-S93.
- Manos, P.S.** and D.E. Stone. 2001. Evolution, phylogeny, and systematics of the Juglandaceae. *Annals of the Missouri Botanical Garden*. 88: 231-269.

- Manos, P.S.**, Z-K. Zhou, and C.H. Cannon. 2001. Systematics of Fagaceae: phylogenetic tests of reproductive trait evolution. *International Journal of Plant Sciences* 162:1361-1379.
- Cannon, C.H. and **P.S. Manos**. 2000. The Bornean *Lithocarpus* Bl. section *Synaedrys* (Lindley) Barnett (Fagaceae): discussion of its circumscription and description of a new species. *Botanical Journal of the Linnean Society* 133: 343-357.
- Manos, P.S.**, J.J. Doyle, and K.C. Nixon. 1999. Phylogeny, biogeography, and processes of molecular differentiation in *Quercus* subgenus *Quercus* (Fagaceae). *Molecular Phylogenetics and Evolution* 12: 333-349.
- Miller, R.E., M.D. Rausher, and **P.S. Manos**. 1999. Phylogenetic systematics of *Ipomoea* (Convolvulaceae) based on ITS and waxy sequences. *Systematic Botany* 24: 209-227.
- Manos, P.S.** 1997. Systematics of *Nothofagus* (Nothofagaceae) based on rDNA spacer sequences (ITS): taxonomic congruence with morphology and plastid sequences. *American Journal of Botany* 84: 1137-1155.
- Manos, P.S.** 1997. *Quercus* section *Protobalanus*. in *Flora of North America North of Mexico*, Vol. 3, Magnoliophyta: Magnoliidae and Hamamelidae, pp. 468-471, Oxford University Press, New York.
- Manos, P.S.** and K.P. Steele. 1997. Phylogenetic analyses of "higher" Hamamelididae based on plastid sequence data. *American Journal of Botany* 84: 1407-1419.
- Manos, P.S.** 1993. Foliar trichome variation in *Quercus* section *Protobalanus*. *Sida* 15:391-403.
- Manos, P.S.**, K.C. Nixon, and J.J. Doyle. 1993. Cladistic analysis of restriction site variation within the chloroplast DNA inverted repeat region of selected Hamamelididae. *Systematic Botany* 18: 551-562.
- Aiken, S.G., L.L. Consaul, J.I. Davis, and **P.S. Manos**. 1993. Systematic inferences from isozyme variation patterns in arctic and alpine caespitose *Festuca* (Poaceae). *American Journal of Botany* 80: 76-82.
- Davis, J.I. and **P.S. Manos**. 1991. Isozyme variation and species delimitation in the *Puccinellia nuttalliana* complex (Poaceae): an application of the phylogenetic species concept. *Systematic Botany* 16:431-445.
- Vorsa, N., **P.S. Manos**, and M.I. van Heemstra. 1988. Isozyme variation and inheritance in blueberry. *Genome* 30:776-781.
- Manos, P.S.** and D.E. Fairbrothers. 1987. Allozyme variation in populations of six northeastern American red oaks (Fagaceae: *Quercus* subg. *Erythrobalanus*). *Systematic Botany* 12:365-373.

## PROFESSIONAL SERVICE

Council Member: American Society of Plant Taxonomists (2005-2008)

Honors & Awards Committee Chair: American Society of Plant Taxonomists (2006-07)

Honors & Awards Committee: American Society of Plant Taxonomists (2005-06)

Associate Editor: *Systematic Botany* (2002-2005)

Journal Referee: *American Journal of Botany*, *Brittonia*, *American Naturalist*, *Australian Systematic Botany*, *Annals of the Missouri Botanical Garden*, *Canadian Journal of Botany*, *Ecology Letters*, *Ecological Monographs*, *International Journal of Plant Sciences*, *Evolution*, *Journal for the American Society of Horticultural Science*, *Journal of Bryology*, *Molecular Biology and Evolution*, *Molecular Ecology*, *Molecular*

*Phylogenetics and Evolution, New Phytologist, Nordic Journal of Botany, Plant Systematics and Evolution, Proceedings of the National Academy of Science, USA, Public Library of Science—European Bioinformatics Institute, Sida, Systematic Biology, Systematic Botany, Taxon, Trends in Genetics*

Textbook Review: *Biological Science* by S. Freeman; *Biology* by Solomon, Berg & Martin

Proposal Referee:

Smithsonian Institution's Scholarly Studies Program (1998)

Netherlands Organisation for Scientific Research (2001)

NSF: Systematic Biology, Biotic Survey, Ecology, REU SITES

NSF Panel member: DEB Systematic Biology, DDIG program, 1997

Nominating Committee: Society of Systematic Biologists (1996; 2003)

Re-appointment-Review: California Academy of Science, 2003

Promotion-Review to tenure: Brigham Young University, 2003

Promotion-Review to full professor: University of Manitoba, 2004

Promotion-Review to tenure: Ohio State University, 2004

Promotion-Review to tenure: North Carolina State University, 2005

Promotion-Review to tenure: University of Minnesota, 2005

Re-appointment-Review: Field Museum, 2006

Promotion-Review to senior curator: California Academy of Science, 2006

Appointment-Review: Salem College, 2006

Promotion-Review to tenure: Field Museum, 2007

External Examiner: University of Alberta, Thesis defense for Dr. Randal Mindell, 2008

Promotion-Review to tenure: Portland State University, 2008

NSF Panel member: DEB – Phylogeography, Oct. 6-7, 2008

Promotion-Review to tenure: University of Minnesota, 2009

Promotion-Review to tenure: Harvard University, 2010

Promotion-Review to tenure: University of Colorado, Boulder, 2010

Promotion-Review to tenure: University of Michigan, 2010

## **SYNERGISTIC ACTIVITIES**

2010 WISE (Workshop on Intercultural Skills Enhancement) Wake Forest University, February 26-27.

2006-2008 Phylogeography of the Northern Hemisphere. Working group, National Evolutionary Synthesis Center (NESCent); Co-PI with M.J. Donoghue (PI).

2004: SENSER Summer Institute: Science Education for New Civic Engagements and Responsibilities, San Jose, CA—August 1-5, 2004.

2004-2006: NSF-DBI, “REU-SITES; Bioinformatic and phylogenetic approaches to the study of plant and fungal biodiversity”. 10-week summer undergraduate training program.

2002-2004: Participant in NSF RCN, “Deep Time”: Projects include integration of fossils in phylogenetic analysis of Juglandaceae and Platanaceae with D. Soltis, P. Soltis, S. Manchester, D. Dilcher, H. Wang, D. Stone.

1997-2004: A. W. Mellon Training Grant in Plant Systematics.

2000: Molecular Systematics Workshop for Cuban botanists. Funded by American Council of Learned Societies, Social Science Research Center (ACLS/SSRC) Working Group on Cuba; Organizer and instructor. June 4-18, 2000; Duke University.

## PROFESSIONAL SOCIETIES

American Society of Plant Taxonomists  
Botanical Society of America  
Society of Systematic Biologists

## UNIVERSITY AND DEPARTMENTAL SERVICE

Mellon Training Program in Plant Systematics, 1995-2004  
Greenhouse and Conservatory Faculty Advisor, 1995-2001  
Morphometrics Lab Committee 1996-2000  
Faculty Reader: Distinction in Biology Program 1996-  
Faculty Search Committee: 1996; 1999-00  
Reviewer: Hughes Biology Forum, Duke University 1997  
Arts and Sciences Council: Spring, 1998; Fall 1998  
Research Tech search committee (Sequencing Core Facility): 1999-00  
Dept. of Botany, Self-Study Report, Systematics: 1998-99  
Latin American Studies: Duke-UNC Cuba Working Group: 1999-2001  
Interdepartmental Academic Planning Committee 1999-2000  
Biology Department Seminar Committee 2000-01  
Curator of the Vascular Plant Herbarium 2002 - 2005  
Promotion committee - Review to Assistant Professor of the Practice: S. Broverman—2003  
Reviewer, Biology Grant-in-Aid proposals 2003  
Review Committee, Arts & Sciences Faculty Research Proposals 2003, 2004  
Biology Department Curriculum Review Committee 2003  
Promotion committee - Review to tenure: K. Pryer—2004  
Reappointment committee - Review of Asst. Professor of the Practice: P. Lemons—2004  
Biology Department, Teaching Consultation Committee – Spring 2005  
University Subcommittee on Transportation, Parking & Security – April 2005  
Biology Department Curriculum Committee (2000-2006)  
Arts & Sciences Council (2004-2007)  
Arts & Sciences Search Committee for the Assistant Dean of HPAC (2007)  
NSOE Search Committee for the McCurdy Visiting Scholar (2007)  
Biology Graduate Advisory Committee (2007-2009)  
Biology Performance Review Committee (2007-2009)  
Reappointment committee (Chair)—Assistant Professor of the Practice: Armaleo: 2008  
Reappointment committee (Chair)—Assistant Professor of the Practice: Broverman: 2008  
Promotion committee - Review to tenure: E. Bernhardt: 2008  
Arts & Sciences Faculty Research Committee (2006-2009)  
Arts & Sciences Faculty Research Committee, Chair, Natural Sciences (2007-2009)  
Teaching Collection Horticulturist Search Committee – (2009)

### Current:

Director of Undergraduate Studies, Biology (2009-2012)  
Teaching Consultation Committee, Biology (2010-)  
Biology Department, Systematic Biology Seminar Series, Coordinator: 1996 - present  
Duke Herbarium Executive Committee (DHEC) – (2008-)  
Promotion committee (Chair)—Review to Professor: K. Pryer—2011

## **GRADUATE ADVISING**

### **Major advisor**

Charles Cannon (Ph.D. 2000)  
M. Alejandra Jaramillo (Ph.D. 2001)  
Maggie Whitson (Ph.D. 2001)  
Yun Feng (M.Sc. 2003)  
Kyle Williams (Ph.D. 2003)  
Jennifer Arrington (Ph.D. 2004)  
Jay Horn (Ph.D. 2005)

Tania Rehse (M.Sc. 2006)  
Norman Douglas (Ph.D. 2007)  
Erin Tripp (Ph.D. 2008)  
Bernadette O'Reilly (M.Sc. 2009)  
Erica Tsai (Ph.D. 2009)  
Dylan Burge (Ph.D. 2011)  
José Eduardo Meireles (2008-)

### **Graduate student committees, past:**

Tim McDowell (Ph.D. 1996: Botany)  
Matt Olsen (Ph.D. 1997: Botany)  
Jay Horn (M.Sc. 1997: UNC)  
Erin Krellwitz (Ph.D. 1998: Botany)  
Nori Yoshikawa (Ph.D. 1999: UNC)  
John Wares (Ph.D. 2000: Zoology)  
Nigel Pitman (Ph.D. 2000: Botany)  
Joseph Clarke (Ph.D. 2000: Botany)  
David Fargo (Ph.D. 2000: Botany)  
Terry Henkel (Ph.D. 2001: Biology)  
Jason Lynch (Ph.D. 2001: Biology)  
Kirk Zigler (Ph.D. 2002: Biology)  
Estaban Jobbagy (Ph.D. 2002: Botany)  
Leonie Moyle (Ph.D. 2002: Biology)  
Ken Wurdack (Ph.D. 2002: UNC)  
Rebecca Zufall (Ph.D. 2003: Biology)  
Fatih Coscun (Ph.D. 2003: UNC)  
Mike Hickerson (Ph.D. 2003: Biology)  
Alyssa Dill (Ph.D. 2003: Botany)

Jason McLachlan (Ph.D. 2004: Biology)  
Shannon LaDeau (Ph.D. 2004: UPE)  
Stuart McDaniel (Ph.D. 2005: Biology)  
Megan C. Hall (Ph.D. 2005: Biology)  
Daniel Henk (Ph.D. 2005: Biology)  
Alberto Linder (Ph.D. 2005: Biology)  
Cynthia Willson (Ph.D. 2005: Biology)  
Heath O'Brian (Ph.D. 2006: Biology)  
Candace Davis (M.Sc.: 2007 Biology)  
Eric Shuettpelz (Ph.D. 2007: Biology)  
Regina Peon-Diaz (M.Sc. 2007: UPE)  
Cecile Guidan (Ph.D. 2007: Biology)  
Ping Zhou (M.Sc. 2008: Biology)  
Kyle Dexter (Ph.D. 2008: Biology)  
Erica Blight (Ph.D. 2009: Biology)  
Greg Bonito (Ph.D. 2009: Biology)  
Emily Moran (Ph.D. 2010: Biology)  
Jeff Ott (Ph.D. 2010: UNC)  
Mike Nowak (Ph.D. 2010: Biology)

### **Student committees, current:**

Gwen Williams (Ph.D. candidate: Biology)  
Hanna Reynolds (Ph.D. candidate: Biology)  
Carrie Wessinger (Ph.D. candidate: Biology)  
Taina Matheson Price (Ph.D. candidate: Wash. Univ.)  
Charlie Willis (Ph.D. candidate: Biology)  
Paul Durst (Ph.D. student: Biology)

## **UNDERGRADUATE ADVISING**

Pre-Major Advisor, 1999-2006; Biology Advisor, 1995-



## **UNDERGRADUATE RESEARCH MENTORING**

Cullen Geiselman (1997)  
Melanie Bateman (1997; URS Program)  
Matt Ogburn (Summer 1998 - Research Fellows Program-Howard Hughes)  
Jerome Chen (Summer 1998-Fall 1998: NSF REU Program)  
Monica Carlson (Fall 2000; Spring 2001)  
Paul Gugger (Spring 2003)  
Billy Schnackel (Summer 2004 - NSF REU SITES Program)  
Gelyn Kline (Summer 2004 - NSF REU SITES Program)  
Amos Little (Summer 2005 - NSF REU SITES Program)  
John Chau (Summer 2005 - NSF REU SITES Program)  
Claire Landgren (Summer 2006 - NSF REU SITES Program)

## **COURSES TAUGHT**

Evolution of Flowering Plants (Bio 243L)  
Systematic Biology (Bio 237L)  
Organismal Evolution (Bio 26B/32L)  
Plants: Evolution, Systematics, and Social Relevance (Bio 142)  
Plant Biosystematics (Bio 256L)  
Flowering Plant Phylogeny and Diversity (Bio 295S)  
Tutorial in Plant Systematics (Bio 225T)  
Vascular Flora of the Southern Appalachians (Highlands Biological Station)  
Plant Communities of North Carolina (Bio 141L)  
Biodiversity of North Carolina (Duke, MALS program)  
Biogeography in an Australian Context (Bio131, Duke Study Abroad)

## **INVITED SEMINARS**

1994 North Carolina State University, Raleigh, NC  
1994 University of Massachusetts, Amherst, MA  
1995 Vanderbilt University, Nashville, TN  
1995 University of Colorado, Denver, CO  
1995 University of Colorado, Boulder, CO  
1996 University of Georgia, Athens, GA  
1997 University of North Carolina, Greensboro, NC  
1998 Wake Forest University, Winston-Salem, NC  
1999 Harvard University, Cambridge, MA  
1999 The George Washington University, Washington DC  
2002 Appalachian State University, Boone, NC  
2002 Rancho Santa Ana Botanical Garden, Claremont, CA  
2002 University of Missouri, St. Louis, MO  
2002 Kunming Institute of Botany, China  
2002 North Carolina State University, Raleigh, NC  
2004 Oregon State University, Corvallis OR  
2004 University of Florida, Gainesville FL  
2005 Rutgers University, New Brunswick, NJ

2005 University of Munich, Germany  
2005 Univ. del Valle de Guatemala  
2007 North Carolina State University, Raleigh, NC  
2007 University of Minnesota, St. Paul, MN  
2008 Ohio State University, Columbus, OH  
2008 University of Alberta, Canada  
2008 North Carolina State University, Raleigh, NC  
2009 University of Chicago, IL  
2010 Boise State University, OR  
2010 North Carolina State University, Raleigh, NC  
2010 Nicholas School of Environment, Durham, NC  
2011 Western Carolina University, Cullowee, NC