

Curriculum Vita
Bradley W. Miller

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Education:

- 2007 Ph.D. Forestry (student). Virginia Polytechnic Institute and State University. Blacksburg, VA.
- 2006 M.S. Biology. Appalachian State University. Boone, NC.
- 1998 B.S. Biology, minors: Photography, Chemistry. Mount Olive College. Mount Olive, NC.

Professional Experience:

- 2005-07 Graduate Teaching Assistant- *Department of Forestry, Virginia Polytechnic Institute and State University. Blacksburg, VA.* Instructor for the forest soils and hydrology laboratory responsible for weekly lab set up and grading.
- 2001-04 Graduate Teaching Assistant- *Department of Biology, Appalachian State University. Boone, NC.* Instructor of general biology, general science, and botany laboratories responsible for weekly lab set ups, experiments, and tests.
- 2000 Science Teacher- *NC School for the Deaf. Morganton, NC.* Instructor of biology, chemistry, earth science, and physical science classes.
- 1998-97 General Biology Laboratory Assistant- *Mount Olive College. Mount Olive, NC.* Assisting in the set up, execution, and analysis of general zoology laboratories and general biology laboratories.
- 1997 North Carolina State Government Internship- *South Mountains State Park, Morganton, NC.* Completed a 10-week research project (including chemical and biological analyses of stream water) of two watersheds located within South Mountains State Park.

Publications:

- 2003 Miller, B.M. and McCleneghan, S.C. 2003. A comparison of ectomycorrhizal colonization of *Picea rubens* (red spruce) using native and non-native soils in response to exponential fertilization. *Southeastern Biology* 50:181. (Abstract)

- 1998 Miller, B.M. and Bounds, R. 1998. Water quality analysis of two watersheds located in the South Mountains State Park. *Journal of the Elisha Mitchell Scientific Society* 114:99. (Abstract)

Presentations/Posters:

- 2007 “Long-Term Effects of P Fertilization on P Availability in a SC Loblolly Pine Plantations.” Presentation. 14th Biennial Southern Silvicultural Research Conference. Athens, GA. Feb 28th – Mar 1.
- 2007 “Nursery production of red spruce seedlings with ectomycorrhizal fungi of the endangered Southern Appalachian Spruce-Fir ecosystem.” Poster. 14th Biennial Southern Silvicultural Research Conference. Athens, GA. Feb 28th – Mar 1.
- 2006 “Long-Term Effects of P Fertilization and Silvicultural Treatments on P Pools and Labile P in Loblolly Pine Plantation Soils.” Presentation. ASA-CSSA-SSSA International Annual Meeting. Indianapolis, Indiana. November 12-16.
- 2006 “The successful nursery production of red spruce seedlings with indigenous ectomycorrhizal fungi of the endangered Southern Appalachian Spruce-Fir ecosystem.” Presentation. Mycological Society of America. Quebec City, Quebec, Canada. July 30-August 4.
- 2006 “The long-term effects of a single phosphorus fertilizer application on phosphorus availability in forest soils.” Poster. World Congress of Soil Science. Philadelphia, Pennsylvania. July 9-15.
- 2006 “The long term effects of phosphorus fertilization on soil phosphorus availability.” Presentation. 67th Annual Meeting of the Association of Southeastern Biologist. Gatlinburg, TN. March 29-31.
- 2005 “Changes in Phosphorus Forms in Forest Soils of the Southeast US Twenty Years after Phosphorus Fertilization.” Presentation. ASA-CSSA-SSSA International Annual Meeting. Salt Lake City Utah.
- 2005 “Long-Term Effects of P Fertilization in Loblolly Pine on Soil P Availability.” Presentation. Forest Nutrition Cooperative Annual Meeting. Virginia Polytechnic Institute and State University. Blacksburg, VA.
- 2005 “Ectomycorrhizal fungi and fertilizer applications.” Presentation. Forestry Graduate Student Association. Virginia Polytechnic Institute and State University. Blacksburg, VA.
- 2004 “Ectomycorrhizal fungi on *Picea rubens* (red spruce) in native and non-native soils: Effects of different fertilization regimes.” Presentation. 65th Annual Meeting of the Association of Southeastern Biologist. Memphis, TN.
- 2004 “Ectomycorrhizal fungi on *Picea rubens* (red spruce) in native and non-native soils: Effects of different fertilization regimes.” Presentation. Appalachian State University Student Endeavors Research Day. Appalachian State University. Boone, NC.

- 2003 “Ectomycorrhizal colonization of *Picea rubens* (red spruce) using native and non-native soils in response to exponential fertilization.” Presentation. 64th Annual Meeting of the Association of Southeastern Biologists. Washington D.C.
- 2003 “Identification and comparison of ectomycorrhizal colonization of *Picea rubens* (red spruce) using native and non-native soils in response to exponential fertilization.” Presentation. Appalachian State University Student Endeavors Research Day. Appalachian State University. Boone, NC.
- 2003 “Who left a piece of Canada in North Carolina: The biogeography of spruce-fir forest and the symbiotic role of mycorrhizal fungi.” Invited Presentation. Asheville Mushroom Club. Asheville, NC.
- 2003 “Mysterious, magical, poisonous, funny, yummy mushrooms and the Canadian forest?” Invited Presentation. Valle Crucis Middle School. Valle Crucis, NC.
- 2002 “Mycorrhizal colonization of *Picea rubens* (red spruce) seedlings.” Presentation. High Elevation Conservation/Research Symposium. US and NC Fish and Wildlife Service. Appalachian State University. Boone, NC.
- 2000 “Hike against cancer: Life on the Appalachian Trail.” Invited Presentation. Lecturer Series. Mount Olive College.
- 1998 “Water quality analysis of two watersheds located in the South Mountains State Park.” Presentation. North Carolina Academy of Sciences Conference. Wake Forest University. Winston Salem, NC.

Grants and Awards:

- 2007 Outstanding Graduate Student Paper Award. 14th Biennial Southern Silviculture Research Conference .
- 2006 Outstanding Graduate Student Oral Presentation. Mycological Society of America.
- 2006 Outstanding Student Member. Forestry Graduate Student Ass. Virginia Tech.
- 2005 Outstanding Service Award. Graduate Student Association. Virginia Tech.
- 2004 Graduate Student Service Award. Appalachian State University.
- 2002-03 Who’s Who in American Colleges and Universities. ASU Graduate School.
- 2002-03 Alumni Scholarship. Appalachian State University.
- 2001-03 Graduate Student Association Research and Travel Grants. ASU Graduate School.
- 2001-03 Thesis/Dissertation Research Grant. Appalachian State University.

1997-98 Science and Mathematics Department Student of the Year. Mount Olive College.

1997-98 Best Senior Research. Mount Olive College.

1997-98 Outstanding Contribution to the Henderson Science Club. Mount Olive College.

1998-94 National Collegiate Student Government Award. Mount Olive College.

1998-94 Handy Mart Scholars. Mount Olive College.

1998-94 Leadership Scholarship. Mount Olive College.

1996-94 Dr. C.C. Henderson Scholarship.

1994-95 Mr. Mount Olive College.

1994-95 Mount Olive College Freshman of the Year (Nomination).

University Service and Elected Offices:

2006-07 Graduate Student Representative. University Unions and Student Activities. VT.

2005-07 Graduate Student Assembly. Forestry Department, Delegate. VT

2005-06 Commission on University Research. Graduate Representative. VT.

2004-06 Forestry Graduate Student Association. Officer. VT.

2003-04 Graduate Student Association Senate. Committee Chair, Senator. ASU.

2001-04 Biology Graduate Student Association. Committee Chair. ASU.

2002-03 Graduate Student Association Senate. President. ASU.

2002-03 University Strategic Planning Committee. Graduate Student Representative. ASU.

2002-03 External Advisory Board ASU Graduate School. Student Representative.

1997-98 Student Government Senior Class President. Mount Olive College.

1997-98 North Carolina Academy of Sciences. Historian.

1996-98 Henderson Science Club. Historian. Mount Olive College

1996-97 Student Government Junior Class Treasure. Mount Olive College.

1994-95 Student Government Freshman Class President. Mount Olive College.

1994-95 Judicial Peer Review Board. Mount Olive College.

Honor Society and Professional Associations:

Xi Sigma Pi. 2006

Phi Sigma Society. 2005

Soil Science Society of America. 2005

Mycological Society of America. 2004

Association of Southeastern Biologists. 2002

Research Interests:

Carbon and nutrient transformations in forest soils. My interests lie in the abilities of plants, fungi, and microbes to influence C and labile P pools.