

CURRICULUM VITAE

Personal Information:

Lynn L. Carpenter
University of Michigan
1111 Natural Sciences Building
830 North University Ave.
Ann Arbor, MI 48109-1048
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Education:

- 2000-2006 Ph.D. Program in Ecology and Evolutionary Biology, University of Illinois.
Advisors: Dr. Feng Sheng Hu, and Dr. Ken Paige
1998-2000 M.S. Department of Natural Resources and Environmental Sciences,
University of Illinois.
1995 B.S. Department of Zoology, Eastern Illinois University.

Teaching Experience:

- 1/2009-current Instructor, "General Ecology," (Bio282, EEB372), University of Michigan
Instructor, "Evolution of Life," (Bio107), University of Michigan
Instructor, "Introductory Biology" (Bio171), University of Michigan
8/2008-12/2008 Instructor, "History of Life," (Bios 30310), University of Notre Dame
8/2007-12/2008 Guest Lecturer, "General Ecology" (Bios 30312), University of Notre
Dame
1/2006-6/2006 Teaching Assistant, "Plant Biology" (PIBio 103), University of Illinois
8/2005-12/2005 Teaching Fellow, "Introduction to Environmental Biology" (IB 105),
University of Illinois
8/2000-12/2002 Teaching Assistant, "Introduction to Genetics" (Biology 210), University
of Illinois
1/1999-5/2000 Teaching Assistant, "Introduction to Genetics and Evolution" (Biology
120), University of Illinois

Professional Experience:

- 2009-current Lecturer IV Faculty, Ecology and Evolutionary Biology (Lecturer/Advisor) /
Molecular, Cellular and Developmental Biology (Advisor), University of
Michigan
2006-2008 Postdoctoral Research Associate, Biological Sciences, University of Notre
Dame
2004-2006 Undergraduate Advisor, Biological Sciences Academic Advising Office,
Summer
1995-1998 Technical Supportive Scientist. Illinois Natural History Survey/Forbes
Biological Station. Assisted in field waterfowl research, data entry, and
report/manuscript preparation.
1997-1998 Professional Tutor. Lincoln College.
1993-1995 Hourly Assistant. Illinois Natural History Survey/Forbes Biological

1990-1992 Station, summers only. Assisted in waterfowl research and clerical work.
Hourly Assistant. Lincoln College, Summer

Awards:

2006 Best Overall Presentation. Graduate Students in Ecology and Evolutionary Biology (GEEB) Symposium.
2005 Proctor and Gamble Student Awards Competition
2005 Harold C. and Sonja L. Labinsky Award
2004 University of Illinois, Dissertation Completion Fellowship
2002 Edward S. Deevey Award – Paleocology Section, Ecological Society of America
1999-2002 Incomplete list of Teachers Ranked as Excellent by Their Students
1994 Phi Sigma Epsilon – Biological Honor Society
1993 Alpha Epsilon Delta - Pre-medical Honor Society
1993 Beta Beta Beta - Biological Academic Honor Society
1992 Phi Alpha Eta - Academic Honor Sorority

Research/Travel Grants:

2012 Lecturer's Professional Development Fund, University of Michigan, \$1,000
2010 Sweetland Fellowship, University of Michigan, \$4,000
2009 Teaching with Technology Institute, \$2,500
2005 National Science Foundation Doctoral Dissertation Grant, \$11,000
2004, 2006 School of Integrative Biology Enhancement Fund, \$1,100, \$1,100
2003 Sponsored attendant at Fossilva Symposium by INRA, \$300
2003 P.E.O. Scholar Award, \$8,000
2003, 2004 Program in Ecology and Evolutionary Biology Summer Research Grant \$1000, \$700
2003 Program in Ecology and Evolutionary Biology Research Assistantship, \$7,000
2002 Francis M. and Harlie M. Clark Summer Support Grant, \$2,500
2002 Philip W. Smith Memorial Award \$550
2002, 2003, 2004 Program in Ecology and Evolutionary Biology Summer Travel Grant \$250, \$1000
2001, 2003, 2004 Francis M. and Harlie M. Clark Research Support Grant, \$1,000, \$750, \$500, \$1,000, \$1,000
2005, 2006 \$500, \$1,000, \$1,000
1998, 1999 Sigma Xi Grant-In-Aid Award, \$700, \$300

Manuscripts/Publications/Reports:

Anderson-Carpenter, L.L., J.S. McLachlan, S.T. Jackson, M. Kuch, C.Y. Lumibao, H.N. Poinar. 2011. Ancient DNA from lake sediments: bridging the gap between paleoecology and genetics. *BMC Evolutionary Biology*, 11:30.
Anderson, L.L., K.N. Paige. 2011. Phylogeographic history of white spruce during the last glacial maximum: uncovering cryptic refugia. *Journal of Heredity*. 102(2):207-216.

- Wenny, D., L.L. Anderson, D. Kirk, J. Bergstrom, D. Enstrom, and K.N. Paige. 2006. Ecology and genetics of an isolated population of Swainson's Hawk in Illinois. *Journal of Raptor Research* 40(4):270-276.
- Anderson, L.L., F.S. Hu, D.M. Nelson, R.J. Petit and K.N. Paige. 2006. Arctic endurance: DNA evidence of a glacial tree refugium in Alaska. *Proceedings of the National Academy of Science* 103(33):12447-12450
- Anderson, L.L., and K.N. Paige. 2003. Multiple Herbivores and Coevolutionary Interactions in an *Ipomopsis* Hybrid Swarm. *Evolutionary Ecology* 17:139-156.
- Havera, S.P., K.E. Roat, and L.L. Anderson. 2003. The Thompson Lake/Emiquon Story: The Biology, Drainage, and Restoration of an Illinois River Bottomland Lake. *Illinois Natural History Survey Special Publication* 25. iv + 4pp.
- Anderson, L.L., K.N. Paige, and F.S. Hu. 2001. A Molecular Approach to Understanding the Late-Quaternary History of Spruce (*Picea*) in Eastern Beringia. *PaleoTimes* 2001:11-12.
- Havera, S.P., L.L. Anderson, C.S. Hine, and M.M. Georgi. 1996. Lower Region Waterfowl Component of the Habitat Rehabilitation and Enhancement Program (HREP) UMRSEMP Report to USACOE (Report to Congress). 23 p.

Presentations/Posters:

- Anderson, L.L., F.S. Hu, and K.N. Paige. Genetic Evidence for Multiple Glacial Refugia in Alaska during the Last Glacial Maximum. Presentation to The Ecological Society of America. Milwaukee Wisconsin. August, 2009.
- Anderson, L.L., F.S. Hu, and K.N. Paige. Genetic Evidence for a Cryptic Glacial Tree Refugium in Alaska. Graduate Students in Ecology and Evolutionary Biology (GEEB) Symposium. University of Illinois. Urbana, Illinois. February 2006.
- Anderson, L.L., F.S. Hu, and K.N. Paige. Postglacial Migration of White Spruce. Presentation to the Fossilva Symposium, Bordeaux France. September 2003.
- Anderson, L.L., F.S. Hu, and K.N. Paige. Using Needle Morphology to Infer Environmental Conditions: Genetics, Environment, or G x E? Presentation to Ecology Meeting, Savanna Georgia. August 2003.
- Anderson, L.L., F.S. Hu, and K.N. Paige. Postglacial Migration and Ice-Age Refugia of White Spruce: Evidence from Chloroplast DNA. Poster Presentation to The Royal Society, London England. May 2003.
- Anderson, L.L., F.S. Hu, and K.N. Paige. Using Needle Morphology to Infer Environmental Conditions: Genetics, Environment, or G x E? Presentation to Graduate Students in Ecology and Evolutionary Biology (GEEB) Symposium. University of Illinois. Urbana, Illinois. February 2003.
- Anderson, L.L. F.S. Hu, and K.N. Paige. A molecular-genetic approach to understanding the migration history of *Picea* in North America. Presentation to Ecology Meeting, Tucson, Arizona. August 2002.
- Anderson, L.L. F.S. Hu, and K.N. Paige. A molecular-genetic approach to understanding the migration history of *Picea* in North America. Presentation to Evolution Meeting, Champaign Illinois. June 2002.
- Anderson, L.L. Post-glacial migration of *Picea mariana* and *Picea glauca*: a molecular genetic

- approach. Presentation to Graduate Students in Ecology and Evolutionary Biology (GEEB) Symposium. University of Illinois. Urbana, Illinois. February 2002.
- Anderson, L.L., and K.N. Paige. Multiple Herbivores and Coevolutionary Interactions in an *Ipomopsis* Hybrid Swarm. Presentation to Graduate Students in Ecology and Evolutionary Biology (GEEB) Symposium. University of Illinois. Urbana, Illinois. February 2001.
- Paige, K.N., and L.L. Anderson. Multiple Herbivores and Coevolutionary Interactions in an *Ipomopsis* Hybrid Swarm. Presentation to Evolution Meeting. Bloomington Indiana. August 2000.
- Anderson, L.L. 1998. The history of Forbes Biological Station. Presentation to the P.E.O. Organization, BM Chapter.
- Poster: "The history of Forbes Biological Station" Stephen Havera, Katie Roat, and Lynn Anderson. 1997. Sixth Governor's Conference on the Management of the Illinois River System. Peoria, IL. 7-9 October.

Invited Presentations:

- Carpenter, L.L. Invited Panelist "What Now? Career Paths for PhDs in the Biological Sciences." May 20, 2014
- Carpenter, L.L. Invited Speaker "Newnan Advising Conference." May 14, 2014
- Carpenter, L.L. International Palynological Congress, Session Organizer
"Bridging the Gap between Palynology and Phylogeography: From Ice Core Genetics to Deeplake Sediments," Tokyo Japan, August 2012
- Carpenter, L.L. Provost's Seminar on Teaching, University of Michigan, November 2011.
- Carpenter, L.L. LSA-CRLT Museums Workshop, University of Michigan. February 2011.
- Carpenter, L.L. Enriching Scholarship, University of Michigan. May, 2010
- Carpenter, L.L. LSA-CRLT Museums Workshop, University of Michigan. January 2010.
- Carpenter, L.L. LSA-CRLT Museums Workshop, University of Michigan. September 2009.
- Anderson, L.L., F.S. Hu, and K.N. Paige. Genetic Evidence for Multiple Glacial Refugia in Alaska during the Last Glacial Maximum. Joint 12th International Palynological Congress and 8th International Organization of Paleobotany Conference. Bonn Germany. August 2009.
- Anderson, L.L., F.S. Hu, and K.N. Paige. Dissociating Genetic and Environmental Effects on Conifer Needle Morphology: Can We Use Morphological Traits as Environmental Proxies? Western Forest Genetics Association, Anchorage Alaska. June, 2006
- Anderson, L.L., F.S. Hu, D.M. Nelson, R.J. Petit and K.N. Paige. Arctic endurance: DNA evidence of a cryptic tree refugium in Alaska. Western Forest Genetics Association, Anchorage Alaska. June, 2006
- Anderson, L.L., F.S. Hu, and K.N. Paige. Dissociating genetic and environmental effects on conifer needle morphology: can we use morphological traits as environmental proxies? Bryson Interdisciplinary Climate, People and Environment Program University of Wisconsin, Madison WI. February 2006
- Anderson, L.L., F.S. Hu, and K.N. Paige. Seeking Evidence for Glacial Refugia of North American White Spruce. Invited Presentation, International Palynological Congress, Granada Spain. July 2004.

Anderson, L.L. 2004. Women in Science: past, present and Future. Invited Presentation, P.E.O. State of Illinois Convention. June 2004.

Anderson, L.L., F.S. Hu, and K.N. Paige. The Postglacial Migration Patterns of Black and White Spruce, a Molecular Genetic Approach. Invited Presentation, Illinois State Museum, Springfield IL. December 2002.

Popular Press Coverage:

New York Times. March of Trees. August 1, 2006

United Press International. Study Suggests Alaskan Tree Refuge Existed. August 1, 2006

UPI Dispatch also appeared on DailyIndia.com and PhysOrg.com

Chicago Sun-Times. Expert Warns of Slow Tree Migration. August 3, 2006

Science Daily. Trees Appear to Respond Slower to Climate Than Previously Thought. August 4, 2006

Science News. Northern Refuge: White Spruce Survived Last Ice Age in Alaska. August 5, 2006.

The Columbus Dispatch. Science Briefs. August 8, 2006

The Lincoln Courier. Spruce Trees Yield New Evidence. August 14, 2006

Inside Illinois. Trees Appear to Respond Slower to Climate Change than Previously Thought. August 17, 2006

Champaign News-Gazette. So Much for a Quick Recovery. September 3, 2006

Science Magazine. Forests of the Past: A Window to Future Changes. June 2008