

Emily L. Gillespie

SS#: XXX-XX-XXXX

DOB: 9 March 1973 — Sylva, NC

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Education

- Aug 2005- present Wake Forest University Winston-Salem, NC
- Doctoral dissertation: Molecular Phylogenetics of the Phyllodoceae (Ericaceae) with an Emphasis on the Genus *Kalmia* ~Dissertation Advisor: Dr. Kathleen Kron
 - Research Assistant; Aug 2005-May 2006
 - Graduate Teaching Assistant; Aug 2006-present
- May 2005 M.S. (Biology) Appalachian State University Boone, NC
- Thesis: Phylogeography and Systematics of the *Carex eburnea* Species Complex (Cyperaceae) ~Thesis Advisor: Dr. Zack Murrell
 - Research Assistant; Summer 2003
 - Teaching Assistant; Aug 2001-May 2004
- Dec 2000 B.A. (Biology) University of North Carolina at Asheville Asheville, NC
- Research: Survey of Helminth Parasites in Mantled Howling Monkeys, *Alouatta palliata*, at La Suerte Biological Field Station in Costa Rica ~Research Advisor: Dr. Michael Stuart
 - Undergraduate Research Scholar.
 - Distinction in Biology

University Instructional Experience

- Wake Forest University --Graduate Teaching Assistant
- Cell Bioloy Lab (BIO 214), Fall 2005-present
- Mountain Lake Biological Station—Teaching Assistant
- Plant Biodiversity & Conservation, Summer 2006 & 2007
- Appalachian State University --Graduate Teaching Assistant
- Systematic Botany Lab (BIO 3304), Fall 2003
 - Introductory Zoology Lab (BIO 2001), Spring 2002-Spring 2004
 - Introduction to Life Sciences Lab (BIO 1101), Fall 2001
 - General Biology, GEARUP College Awareness Program, Summer 03/04
- University of North Carolina at Asheville --Undergraduate Teaching Assistant
- Animal Biology Lab (BIO 210), Fall 2000

Recent Employment

- Aug 2005-present Wake Forest University Winston-Salem, NC
- Graduate Teaching Assistant
 - Graduate Research Assistant

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|-------------------|---|-------------------|
| Aug 2004-Jun 2005 | Winston-Salem/Forsyth County Schools • Science Teacher, 6 th Grade | Winston-Salem, NC |
| Jun 2004-Jul 2005 | Kendall-Hunt Publishers • Editing Assistant to Zack Murrell (Appalachian State University) for 5 th edition of <i>Plant Systematics</i> (Walters, Keil and Murrell, eds.) | Dubuque, IA |
| Aug 2001-Jul 2004 | Appalachian State University • Graduate Teaching Assistant • Graduate Research Assistant | Boone, NC |
| Jun 2003 and 2004 | Appalachian State University • Biology Instructor, GEAR UP College Awareness Program | Boone, NC |
| Aug 2000-May 2001 | UNC-Asheville • Biology Tutor | Asheville, NC |
| Jan 1997-Jul 2001 | Great Smokies Diagnostic Laboratory • Laboratory Assistant | Asheville, NC |

Presentations and Publications

- 2006 -Association of Southeastern Biologists; Gatlinburg, TN
Presentation: Gillespie E, Bush C, Kron K. Wake Forest University. Relationships among major clades of Ericoideae (Ericaceae) based on multiple molecular markers.
- 2006 -Botanical Society of America; Chico, CA
Presentation: Gillespie E, Bush C, Kron K. Wake Forest University. Phylogeny of the Ericoideae (Ericaceae) based on multiple nuclear and chloroplast genes.
- 2003 -Botanical Society of America; Snowbird, UT
-Association of Southeastern Biologists; Memphis, TN
-Appalachian State University Celebration of Research and Creative Endeavors
Presentation: Gillespie E, Reece L and Murrell Z. Appalachian State University. Phylogeography of *Carex eburnea* (Cyperaceae) and the Systematics of the *Carex eburnea* Complex.
- 2004 Rare Plant Group; Asheboro, NC
Presentation: Murrell Z and Gillespie E. Molecular Markers: Applications in Conservation.
- 2004 Publication: Padgett J, Murrell Z, Gillespie E and Williams F (2004) Morphological, molecular and ecological analyses of the *Hexastylis heterophylla* complex. Technical Report to the North Carolina Department of Transportation. 139 pp.
- 2003 Association of Southeastern Biologists; Washington, D.C.
Presentation: Gillespie E and Walker G. Appalachian State University. Genetic Diversity of *Carex eburnea* in glaciated and non-glaciated regions.

2001 Publication: Gillespie E and Stuart M (2001). A Parasitological Survey of Howling Monkeys, *Alouatta palliata*, at La Suerte Biological Field Station in Costa Rica. UNC-Asheville Journal of Undergraduate Research.

2001 Collegiate Academy of the North Carolina Academy of Sciences
Presentation: A Parasitological Survey of Howling Monkeys, *Alouatta palliata*, at La Suerte Biological Field Station in Costa Rica.

Guest Lectures

Mountain Lake Biological Station

- One versus many genes—Reconstructing evolutionary history in the Rhododendron subfamily of Ericaceae (Summer 2006)

Appalachian State University

- Protists & Phylogeny Reconstruction (Introductory Botany; Zack Murrell-- Spring 2004)
- Quantitative Genetics (Intro Evolutionary Biology; Zack Murrell-- Spring 2004)
- Amphibians & Transition to Land (Introductory Zoology; Richard Henson-- Spring 2004)
- Echinoderms (Introductory Zoology; Richard Henson-- Spring 2004)
- Molecular Systematics (Systematic Botany; Zack Murrell-- Fall 2003)
- Acoelomates (Introductory Zoology; Jeffrey Butts-- Fall 2003)

Wilkes Community College

- Using Molecules and Morphology in Plant Systematics (Local Flora; Chris Sowers—Summer 2004)

Professional Affiliations

American Society of Plant Taxonomists (ASPT)

Association of Southeastern Biologists (ASB)

Botanical Society of America (BSA)

Southern Appalachian Botanical Society (SABS)

New England Botanical Club (NEBC)

Graduate Women in Science (GWIS)

Society of Herbarium Curators (SHC)

Coursework Summary (Biology)

DNA Sequencing ---- Microsatellite Analysis ---- Allozyme Analysis (independent studies)

Advanced Systematics ---- Advanced Systematic Botany ---- Agrostology ---- Plant Physiology

Microscopy in the Biological Sciences

Molecular Evolution ---- Molecular Biology

Biostatistics ---- Mathematical Modeling in Biology

Cliff Face Ecology ---- Community Ecology ---- Phylogenetic Applications in Community Ecology----Biogeography

Vertebrate Anatomy, Evolution, & Ecology ---- Mammalogy ---- Mammalian Physiology

Human Anatomy & Physiology ---- Human Osteology

Field Based Primate Behavior (Costa Rica)

Professional Development/Workshops

Macroevolution, complexity and biological hierarchies, D. McShea (Duke U.) Jan 2007

Phylogenetics and Community Ecology, M. Silman (Wake Forest) Fall 2006

Sustainability, Ecological footprint & Vertical Farming, D. Despommier (Columbia U.) May 2006

Bioremediation, T. Hazen (Lawrence Berkely National Lab) Jan 2006

Current Developments in Plant Systematics, K. Kron (Wake Forest) Spring 2005

Using SAS Enterprise Guide for Multivariate Analysis (ASU) Mar 2004

Professional References

Kathleen A. Kron
Professor and Chair of Biology
Wake Forest University, Winston-Salem, NC
336-758-5322 kronka@wfu.edu

- Doctoral advisor

Zack E. Murrell
Associate Professor of Biology
Appalachian State University, Boone NC
828 262-2674 murrellze@appstate.edu

- Thesis chair and teaching supervisor

Henry M. Wilbur
Professor of Biology
University of Virginia, Charlottesville, VA
434 982-5486 hmw3q@virginia.edu

- Director (retired), Mountain Lake Biological Research Station

James W. Petranka
Professor of Biology
University of North Carolina at Asheville, Asheville NC
828 232-5153 petranka@unca.edu

- Undergraduate teaching supervisor

Jeffrey A. Butts
Professor of Biology
Appalachian State University, Boone NC
828 262-2077 buttsja@appstate.edu

- Teaching supervisor

Michael D. Stuart
Professor of Biology
University of North Carolina at Asheville, Asheville NC
828 232-5148 stuart@unca.edu

- Undergraduate research advisor

Uta Levinson
Chemistry Laboratory Supervisor
Great Smokies Diagnostic Laboratory, Asheville NC
828 253-0621 utal@gsdl.com

- Chemistry lab manager

Kim Bass
Great Smokies Diagnostic Laboratory, Asheville NC
828 253-0621 kimb@gsdl.com

- Lab group supervisor

Donnelle Graham
Assistant Director, GEAR UP Program
Appalachian State University
828 262-6942 grahamdo@appstate.edu

- Teaching supervisor, summer 03/04