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ACADEMIC EDUCATION

Washington University, St. Louis, MO 2003 - 2004

Center for Inquiry in Science Teaching and Learning,
Post Doctoral Research Scholar and Fellow in Science Education

- Integrated scientific training and background with research examining theoretical models of adult learning, creating authentic, immersion-based professional development programs for adult learners.

University of Florida, Gainesville, FL 2002

Post Doctoral Research Scholar

- Postdoctoral research involved utilizing mathematical models to examine successional changes in species communities and population dynamic changes at a Long-Term Ecological Research Site (LTERS) in Kansas.
- Collaborated with forest service officials at Ocala National Forest in designing forest management plans for preserving and enhancing biodiversity, using amphibians & reptiles as indicator taxa.

University of Miami, Coral Gables FL 2001

Ph.D. Ecology & Evolutionary Biology

- Focus was examining stage-based population dynamics, elucidating key life stage transitions, as well as behavioral and demographic mechanisms involved.
- Used lizards as my model organism.
- During the course of research spent time in Costa Rica, Belize, Mexico, the Everglades of Florida, the scrub habitat of peninsular Florida, and the Sonoran & Chihuahuan deserts of North America.

University of Louisville, Louisville, KY 1991

B.A. Biology

- Emphasis on ecological interactions and anatomical form and function.
- Exploration and examination of both marine and terrestrial communities.
- Research led me abroad to conduct investigations in Jamaica, Puerto Rico, and Australia.
- Solidified life-long passion for exploring the relationships between organisms and their environment.

TEACHING EXPERIENCE

- Expertise in ecological and environmental fields.
- Broad-based research experience in coral reef and tropical rainforest ecology and ecosystem dynamics is integrated into lectures and course development, immersing students in authentic investigations into ecological processes.
- All courses developed from inception through delivery.
- Integrated teaching and learning strategies.

Faculty

St. Louis Community College, St. Louis, MO
Assistant Professor

2004 - present

Courses Developed and Taught: Bridges to Biology; Introductory Biology (Honors and non-Honors sections); Principles of Biology I & II; Anatomy & Physiology I & II; Microbiology; Conservation & Ecology (capstone course); Global Ecology; Marine Biology; Field Experience in Marine Biology; Zoology; Field Experience in Zoology; Research Experience in Environmental Science; Human Health & Wellbeing; Nutrition & Evolution (cornerstone course)

Washington University in St. Louis, St. Louis, MO
Adjunct Professor

2003 - present

Courses Developed and Taught for the Post-Baccalaureate Pre-Medical Program:
General Biology I & II

Courses Developed and Taught for the Master of Arts in Biology Program:
Ecology; Field Ecology; Ecological Methods & Quantitative Analysis; Conservation Biology & Biodiversity; Tropical Ecology; Field Experience in Tropical Ecology (Costa Rica); Tropical Marine Biology; Field Experience in Tropical Marine Biology (Caribbean); Environmental Science: Regional & Global Perspectives; Scientific Project Design & Proposal Writing; Evolution & Nutrition; Hormones and Behavior (Environmental Endocrinology)

Additional Teaching Experience

Adjunct Faculty, St. Louis Community College: Introductory Biology; Anatomy and Physiology; Principles of Biology

2003

Resource Faculty, University of Miami: Advanced Field Ecology

2002

Instructor, Columbia University; Biosphere 2 Center: 1999 Summer Biodiversity Institute, Arizona and Mexico

1999

Guest Lecturer, University of Miami: General Biology

1994

Teaching Assistant/Associate

University of Miami: Introductory Biology

2001

University of Arizona: Cellular and Molecular Biology

1998-1999

University of Arizona: Organic Chemistry I and II Laboratory

1998-1999

University of Arizona: General Chemistry Laboratory

1998

University of Miami: Ecological Biodiversity Laboratory

1997

Supplemental Instructor: General Biology, University of Louisville

1987-1989

NATIONAL SCIENCE FOUNDATION ACTIVITIES

•Co-PI on NSF Grant: Connecting Undergraduates to the Enterprise of Science; focus on creating, implementing, and disseminating inquiry-based laboratory experiences for undergraduate science courses; St. Louis Community College

2007-2009

•Project Coordinator- NSF STEP Program (Models of Success Seminar Series; Windows to STEM Opportunities Workshops), St. Louis Community College

2003-2004

•NSF Gear-Up Program (7th Grade Math & Science Curriculum), St. Louis Community College

2003

•NSF Research in Ecology Summer Program for 7th Grade Teachers and Students; University of Miami

2000-2002

HOWARD HUGHES MEDICAL INSTITUTE and the NATIONAL INSTITUTES OF HEALTH ACTIVITIES

•Minority Fellowship Program in the Biomedical Sciences

1994-1996, 2000-2001

PROFESSIONAL ACTIVITIES & DEVELOPMENT

- Environmental Sustainability on College Campuses Committee, St. Louis Community College 2007-ongoing
- Honors Program Committee, St. Louis Community College 2007-ongoing
- Metabolic Typing Advisor Certification, HealthExcel 2007
- Ayurvedic Nutritional Consultant Certification 2007
- Holbrook Global Institute for Educational Travel: Professional Development Program for Instructors, Costa Rica 2006
- Accelerated Learning Program, course development & implementation, St. Louis Community College 2004-ongoing
- Study Abroad Program: Tropical Marine Biology & Tropical Ecology Program Coordinator, St. Louis Community College and Washington University 2004-ongoing
- NSF Chautauqua Courses: Using Inquiry in Science Labs (2005); Sustainable Development & the Environment: Puerto Rica Case Study (2006)

PRESENTATIONS, SEMINARS, AND WORKSHOPS

- “Attaining Sustainable Communities: Why, How and When.” Missouri Regional Convention of Phi Theta Kappa Honor Society, St. Louis, MO 2008
- “Ecological Footprints & Sustainable Development.” St. Louis Community College at Wildwood, St. Louis, MO 2008
- “Consumer’s Guide to Effective Environmental Choices.” St. Louis Community College at Wildwood, St. Louis, MO 2007
- “Environmental Sustainability Throughout the Curriculum.” Lane Community College, Eugene, OR 2007
- “Principles of Multidimensional Human Anatomy in Health & Healing.” The Center for Mind, Body, & Spirit, St. Louis, MO 2007
- “Principles of Diet & Nutrition for Health & Healing.” The Center for Mind, Body, & Spirit, St. Louis, MO 2007
- “Applied Anatomy & Physiology for Pilates.” Instructional Skills Workshop, St. Louis Community College, St. Louis, MO 2006
- “Nutritional Genomics: the Study of the Interaction Between Genes & Nutrition.” St. Louis Mycological Society, St. Louis, MO 2005
- “Lizard Biodiversity of the Desert Southwest.” St. Louis Herpetological Society, St. Louis, MO 2005
- “The Anatomy & Physiology of Pilates.” The Inner You Pilates Studio, St. Louis, MO 2004
- “Yoga at the Office.” Wellness Program, St. Louis Community College, St. Louis, MO 2004
- “Community Interactions Among Lizards, Researchers, Students and Teachers- From Ecological Research To Science Education.” St. Louis Center for Inquiry in Science Teaching and Learning (CISTL), Washington University in St. Louis, St. Louis, MO 2003
- “Density-dependent processes in the juvenile stage of the life cycle: an experimental investigation using lizards.” The Royal Society, London, England 2002
- “Birth, Immigration, Death, and Emigration (BIDE): applications in conservation biology.” Columbia University’s Biosphere 2 Center, Oracle, Arizona 1999
- “Density-dependent processes at the population and individual level: experimental density manipulations using lizards as a model.” American Museum of Natural History’s Southwestern Research Station, Portal, AZ 1996
- “Habitat use by the scrub lizard, *Sceloporus woodi*.” Archbold Biological Station, Lake Placid, FL 1995
- “Small mammal, reptile and amphibian biodiversity within tropical rain forest fragments, Las Cruces, Costa Rica.” University of Miami, Coral Gables, FL 1994
- “Biodiversity of coral reefs (with examples from Jamaica, Puerto Rico and Australia).” University of Miami, Coral Gables, FL 1994
- “Australia’s Rainforests.” University of Louisville, Louisville, KY 1988
- “Coral reef ecology.” University of Louisville, Louisville, KY 1987
- “Marine biology of Jamaica.” University of Louisville, Louisville, KY 1986

RESEARCH EXPERIENCE

- Shaw Nature Reserve, Missouri Botanical Gardens. Investigation into: 1) reptile and amphibian colonization of restored glades habitat; 2) space use and population dynamics of fence lizards, *Sceloporus undulatus*, in a woodland-glades ecotone. 2007-ongoing
- La Amistad, Costa Rica. Investigation into the biodiversity of reptiles & amphibians within the cloud rainforests of Costa Rica. 2006
- Discovery Bay, Jamaica. Investigation into the biodiversity of common marine flora and fauna associated with coral reefs, seagrass communities, mangroves, and rocky intertidal shores. 2005
- Shaw Nature Reserve, Missouri Botanical Gardens. Investigation of: 1) the effects of prairie establishment and maintenance upon biodiversity of reptiles, amphibians and small nonvolant mammals; 2) edge effects on lizard communities. 2004-2007
- University of Florida. Analysis of community and population dynamics across a successional landscape mosaic. Kansas University LTERS. 2002
- University of Miami. Investigation into the effects of island size and water levels on demography and movement patterns of reptiles and amphibians in the Everglades. Everglades National Park, Florida. 2000-2001
- University of Miami. Investigation into density-dependent demographic processes and behavioral mechanisms in the striped plateau lizard, *Sceloporus virgatus*. Southwestern Research Station, Portal, Arizona. 1996-1999
- University of Miami. Quantification of habitat use by the Florida scrub lizard, *Sceloporus woodi*, within a naturally heterogeneous habitat landscape. Archbold Biological Station, Lake Placid, Florida. 1995-1996
- University of Miami. Investigation into the effects of island size and water levels on demography and movement patterns of small mammals in the Everglades. Everglades National Park, Florida. 1994-1995
- University of Miami. Small nonvolant mammal, reptile, and amphibian biodiversity inventory of fragmented tropical rain forest patches. Las Cruces, Costa Rica. 1994
- University of Louisville. Undergraduate research on the distribution and diversity of reptiles and amphibians of Kentucky. 1989
- University of Louisville. Undergraduate research on the consequences of habitat fragmentation and other forms of disturbance upon species diversity in tropical rain forests. Queensland, Australia. 1988
- University of Louisville. Species richness survey of common marine plants and animals. Paguera, Puerto Rico. 1987
- University of Louisville. Species richness survey of common marine plants and animals. Discovery Bay, Jamaica. 1986

EDUCATIONAL PROGRAM DEVELOPMENT & CONSULTING EXPERIENCE

- Freeman Publishing- Independent Contractor for textbook related pedagogical development services. 2007-ongoing
- An Aquatic Ecosystem Summer Camp- St. Louis Community College Continuing Education, St. Louis, MO. 2007
- Pearson Education/Benjamin Cummings Publisher- Independent Contractor for textbook related pedagogical development services. 2006-ongoing
- Professional Development- St. Louis Public High School Science 2003-2004
- Curriculum & Course Development- AAS in Environmental Technology, St. Louis Community College 2003-2004
- Environmental Technology Mobile Laboratory Curriculum Development (Grades K-12), St. Louis Community College 2003

EDUCATIONAL WILDLIFE NATURAL HISTORY GUIDE EXPERIENCE

- "On the Trail of the Resplendant Quetzal- Birding in the Sky Islands of Arizona." Ornithological Field Guide, American Museum of Natural History Southwestern Research Station, Portal, AZ. 1997-1998

- Reptile Biodiversity Sleuthing in the Desert Southwest. Herptile Field Guide, American Museum of Natural History Southwestern Research Station, Portal, AZ. 1996-1999
- Natural History Lecturer & Guide, Louisville Zoo; Louisville, KY. 1992-1993

TECHNICAL EXPERIENCE

- Laboratory Technician, Safety Kleen: Chemical analysis of hazardous waste materials; Newcastle, KY. 1989-1990
- Chemical Technician, McKesson EnviroSystems: Chemical analysis of hazardous waste materials; Newcastle, KY. 1988
- Quality Control Technician, USA Weaving: In-plant inspection and analysis (chemical & physical) of manufacturing product; Louisville, KY. 1987-1988

EXERCISE PHYSIOLOGY TEACHING EXPERIENCE

- Pilates Instructor, Continuing Education, St. Louis Community College (classes held at *The Inner You Pilates Studio*) 2003-2005
- Pilates Instructor, Gold's Gym, St. Louis, MO 2005
- Pilates Instructor, Bally's Total Fitness, St. Louis, MO 2003-2004
- Specialty Exercise Instructor- Yoga & Pilates, Division of Recreational Sports, University of Florida, Gainesville, FL 2002
- Specialty Exercise Instructor- Yoga & Pilates, University of Miami Wellness Center, Coral Gables, FL 2001-2002

AWARDS

- Outstanding New Faculty of the Year Award, Biology. St. Louis Community College, 2005
- Outstanding Graduate Student Instructor Award, Department of Chemistry, University of Arizona, 1999
- Southwestern Research Station Student Support Fund, research into the population dynamics of the striped plateau lizard, *Sceloporus virgatus*. American Museum of Natural History, 1999
- Department Graduate Research Support Award. Department of Biology, University of Miami, 1995
- School for Field Studies Undergraduate Research Award. Investigations into the biodiversity and dynamics of tropical rainforest, 1988
- University of Louisville Academic Scholarship, 1985-1989

PUBLICATIONS

- Accepted, In Revision*: Manteuffel, VMS, and Ebeilmeir, M. The influence of competitor density on space use in juvenile lizards (*Sceloporus virgatus*). *Acta Oecologia*.
- In Review*: Manteuffel, VMS. Density-dependent behavioral mechanisms of population regulation during the juvenile stage in the striped plateau lizard, *Sceloporus virgatus*. *Journal of Herpetology*.
- In Review*: Manteuffel, VMS. Density-dependent processes during the juvenile stage in the lizard *Sceloporus virgatus*. *Journal of Herpetology*.

PROFESSIONAL MEMBERSHIP

American Association for the Advancement of Science
 National Association of Biological Science Teachers
 Ecological Society of America
 Society for the Study of Reptiles and Amphibians
 Herpetologists League
 American Society of Ichthyologists and Herpetologists
 Society for Conservation Biology
 Association for Tropical Biology