

# CURRICULUM VITAE

## Joanna Grand

Department of Natural Resource Sciences and Landscape Architecture  
University of Maryland, College Park  
College Park, MD 20742  
Email: jgrand@umd.edu

### EDUCATION

**Doctor of Philosophy**, May 2004

University of Massachusetts, Amherst, MA, Jan. 2000-May 2004

Graduate Program in Organismic and Evolutionary Biology/Dept. of Natural Resources Conservation

Dissertation: *Setting Conservation Priorities at the Local Scale: The Threatened Pitch Pine-Scrub Oak Communities of Southeastern Massachusetts*

**Master of Environmental Studies**, May 1995

Yale University, New Haven, CT, Aug. 1993-May 1995

School of Forestry and Environmental Studies

Concentration: Conservation Biology Science

**Bachelor of Arts**, May 1990

Vassar College, Poughkeepsie, NY, Aug. 1986-May 1990

Major: Psychology

Instituto Internacional Madrid, Spain, Sept.-Dec. 1988

Universidad de Santiago Santiago de Compostela, Spain, July-Aug. 1988

### HONORS

1990 Phi Beta Kappa, Vassar College

1990 General Honors, Vassar College

1990 Departmental Honors (Psychology), Vassar College

### PROFESSIONAL AND RESEARCH EXPERIENCE

**University of Maryland/World Wildlife Fund**, College Park, MD/Washington, DC

National Science Foundation Postdoctoral Fellow in Bioinformatics, Mar. 2005-Mar. 2007

Sponsoring Scientists: Dr. Maile Neel, Dr. Michael Cummings, and Dr. Taylor Ricketts

**University of Maryland**, College Park, MD

Postdoctoral Research Associate, Oct. 2004-Mar. 2005

Laboratory of Dr. Maile Neel

**Center for Environmental Research and Conservation (CERC), Columbia University**, New York, NY

*CERC is a consortium of Columbia University, the American Museum of Natural History, the Wildlife Conservation Society, The New York Botanical Garden, and Wildlife Preservation Trust International*

Assistant Director for Programs, Oct. 1998-Dec. 1999

Designed, implemented and managed all conservation biology education and training programs. Programs included: Ph.D. in ecology and evolutionary biology, M.A. in conservation biology, B.A. in environmental biology, undergraduate summer internship program, summer field ecology program, and all training programs listed below. Designed conservation biology courses; organized conferences; managed website; prepared budgets; wrote and coordinated multi-institutional, multi-million dollar grant proposals; supervised program managers, support staff, and students.

Program Coordinator, Oct. 1997-Oct. 1998

Planned and managed the Morningside Institute, the conservation biology training and outreach arm of CERC. Programs included: certificate program in conservation biology, high school science teacher professional development program, day-long career development workshops, week-long international forums for environmental leaders from around the world, summer high school program in conservation biology, and visiting scholars program for foreign scientists. Designed conservation biology courses; taught population modeling class; created and edited electronic newsletter; managed website; prepared Morningside Institute budget.

**American Museum of Natural History**, New York, NY

Collections Associate, Department of Anthropology, Aug. 1995-Oct. 1997

Managed and maintained the primate collection: systematically organized fossil hominid cast collection; approved, authorized and supervised use of collection by visiting scientists and students; assisted curator and chairman of department with research, curatorial duties and exhibits; edited manuscripts; created and maintained databases; conducted archival and paleontological research; prepared reports for facilitation of Museum's compliance with the Native American Graves Protection and Repatriation Act (NAGPRA); conducted age and sex determination of skeletal material; organized annual James Arthur Lecture on the evolution of the human brain; painted fossil casts; supervised volunteer staff.

Research Consultant, Center for Biodiversity and Conservation, Mar. 1997-Apr. 1997

Conducted research and co-authored an article for a Global Biodiversity Forum meeting on the subject of biodiversity indicators; conducted background research and prepared a report on biodiversity in Vietnam.

**New York City Audubon Society**, New York, NY

Consultant Director of Field Research, May 1995-July 1995

Planned a study of avian behavior in the Jamaica Bay National Wildlife Refuge: developed preliminary research design; conducted preliminary observations of avian and plant species composition; coordinated intern search process; interviewed potential interns.

**Urban Resources Initiative, Yale School of Forestry and Environmental Studies**, New Haven, CT

Editor, Sept. 1993-May 1995

Produced biannual newsletter: solicited, wrote, and edited articles; conducted interviews; designed layout.

**Museo de la Isla de Cozumel**, Cozumel, Mexico

Principal Investigator, May 1994-Aug. 1994

Conducted a bio-economic analysis of a sea turtle conservation program in Cozumel, Mexico; worked with museum staff and local school teachers on conservation program activities and education workshops. Funded by the Tropical Resources Institute and the Coca-Cola World Fund at Yale.

**HOWL Wildlife Center**, Lynnwood, WA

Wildlife Rehabilitation Intern, Aug. 1991-Nov. 1991

Provided care for injured/orphaned wildlife with the purpose of returning animals back to their native habitats. Responsible for species identification; wildlife nutrition and diets; handling and restraint; medical/laboratory procedures; drug application; proper housing for captive wildlife; preparation for release and selection of release sites; use of radio telemetry in post-release studies of coyotes; bird banding; volunteer training.

**World Resources Institute, Center for International Development and Environment**, Washington, DC

Program Assistant to the NGO Policy and Support Programs, Oct. 1990-Aug. 1991

Assisted with natural resource management projects being carried out in Latin America and Africa: edited and translated documents; bilingual correspondence; maintained databases; prepared publications; assisted with proposal and report writing; small grants dispersal; researched and developed training materials and tools for local-level participation in development projects.

**TEACHING EXPERIENCE**

**University of Massachusetts, Amherst, MA**

Guest Lecturer, Department of Natural Resources Conservation, *Dynamics and Management of Wildlife Populations*, Fall 2001

Teaching Assistant, Department of Biology, *Introductory Biology Laboratory*, Fall 2000, Spring 2001

Teaching Assistant, Department of Natural Resources Conservation, *Wildlife Conservation*, Spring 2000

Teaching Assistant, Department of Biology, *Introductory Ecology*, Spring 2000

**Columbia University, New York, NY**

Guest Lecturer, CERC, *Conservation Biology*, Spring 1998

**PEER-REVIEWED PUBLICATIONS**

Grand, J., J. Buonaccorsi, S.A. Cushman, C.R. Griffin, and M.C. Neel. 2004. A multiscale landscape approach to predicting bird and moth rarity hotspots in a threatened pitch pine-scrub oak community. *Conservation Biology* **18**(4):1063-1077.

Grand, J. and M.J. Mello. 2004. A multi-scale analysis of species-environment relationships: rare moths in a pitch pine-scrub oak (*Pinus rigida-Quercus ilicifolia*) community. *Biological Conservation* **119**(4):495-506.

Grand, J. and S.A. Cushman. 2003. A multi-scale analysis of species-environment relationships: breeding birds in a pitch pine-scrub oak (*Pinus rigida-Quercus ilicifolia*) community. *Biological Conservation* **112**(3):307-317.

Grand, J. and S.R. Beissinger. 1997. When relocation of loggerhead (*Caretta caretta*) sea turtle nests becomes a useful strategy. *Journal of Herpetology* **31**(3):428-434.

**PUBLISHED ABSTRACTS**

Grand, J. and M.J. Mello. A multi-scale analysis of species-environment relationships: rare moths in a pitch pine-scrub oak community. Page 98. Abstracts of the 18<sup>th</sup> Annual Meeting of the Society for Conservation Biology, New York, NY. July 29-Aug. 2, 2004.

Grand, J., J. Buonaccorsi, S.A. Cushman, and C.R. Griffin. A multiscale landscape approach to predicting bird and moth rarity hotspots in a threatened pitch pine-scrub oak community. Page 131. Abstracts of The Wildlife Society 10<sup>th</sup> Annual Conference, Burlington, VT. Sept. 6-10, 2003.

Grand, J. and S. R. Beissinger. A demographic model for relocation of loggerhead (*Caretta caretta*) sea turtle nests. Pages 106-108 in J.A. Keinath, D.E. Garnard, J.A. Musick, and B.A. Bell, Compilers. NOAA Technical Memorandum NMFS-SEFSC-387. Proceedings of the 15<sup>th</sup> Annual Symposium on Sea Turtle Biology and Conservation, Hilton Head, SC. Feb. 20-25, 1995.

**REPORTS, ARTICLES, AND BOOK CONTRIBUTIONS**

Grand, J. and Z. Rappoport. 1995. An economic analysis of sea turtle conservation in C zumel, Mexico. Tropical Resources Institute (TRI) Working Paper. TRI, Yale University, New Haven.

Grand, J. and Z. Rappoport. 1995. An economic analysis of sea turtle conservation in C zumel, Mexico. TRI News: Journal of the Yale Tropical Resources Institute **13**:5-7.

World Resources Institute (Compilers). 1991. Environmental profile of Nicaragua. Pages 546-547. The 1992 Environmental Almanac. Houghton Mifflin Co., New York.

**EDITORIAL ASSISTANCE PROVIDED FOR:**

Delson, E., I. Tattersall, J. Van Couvering, and A.S. Brooks. 1999. Encyclopedia of Human Evolution and Prehistory. Second Edition. Garland Publishing, New York.

Tattersall, I. 1995. The Last Neanderthal: The Rise, Success, and Mysterious Extinction of Our Closest Human Relatives. Macmillan Press, New York.

### **FUNDED GRANTS, AWARDS, SCHOLARSHIPS, AND FELLOWSHIPS**

2004 National Science Foundation Postdoctoral Fellowship in Bioinformatics (\$120,000)  
 2004 Robert & Patricia Switzer Foundation Leadership Grant (\$40,000). Offered but declined.  
 2003 University of Massachusetts Graduate School Fellowship (\$8,850)  
 2002 Robert & Patricia Switzer Foundation, Switzer Environmental Fellowship for commitment to and leadership in improving the quality of our natural environment (\$13,000)  
 2002 University of Massachusetts Graduate Student Travel Award  
 2002 British Ecological Society Travel Award  
 2001 Nuttall Ornithological Club, Charles Blake Fund Research Grant (\$3,000)  
 2001 Massachusetts Natural Heritage and Endangered Species Program Research Grant (\$10,000)  
 1995 Oliver S. and Jennie R. Donaldson Charitable Trust Scholarship (\$2,000)  
 1995 Sea Turtle Biology and Conservation Symposium Student Travel Award  
 1995 Yale University's Class of '94 Professional Development Travel Award  
 1994 Yale University's Coca-Cola World Fund Fellowship (\$1,100)  
 1994 Yale University's Tropical Resources Institute Summer Research Grant (\$2,200)

### **CONFERENCES ORGANIZED**

**CERC/Columbia University**, June 1999  
 9-day forum for senior environmental professionals. Topic: Ecosystem Fragmentation  
**CERC/Wildlife Conservation Society**, Apr. 1999  
 1-day professional development workshop. Topic: Marine Conservation  
**CERC/Columbia University**, Jan. 1999  
 1-day professional development workshop. Topic: K-12 Science Education  
**CERC/Wildlife Conservation Society**, Nov. 1998  
 1-day professional development workshop. Topic: Plant/Animal Interactions  
**CERC/Columbia University**, May 1998  
 7-day forum for senior environmental professionals. Topic: Human/Wildlife Conflict  
**CERC/New York Botanical Garden**, Mar. 1998  
 1-day professional development workshop. Topic: Plant Biodiversity Studies  
**CERC/Columbia University**, Jan. 1998  
 1-day professional development workshop. Topic: Environmental Ethics  
**CERC/Columbia University**, Nov. 1997  
 1-day professional development workshop. Topic: Census Methods

### **PRESENTATIONS AT PROFESSIONAL MEETINGS**

Grand, J. and M. Mello. A multi-scale analysis of species environment relationships: rare moths in a pitch pine-scrub oak community (oral presentation accepted). The Society for Conservation Biology 18<sup>th</sup> Annual Meeting, New York, New York. July 29-Aug. 2, 2004.

Grand, J., J. Buonaccorsi, S.A. Cushman, C.R. Griffin, and M. C. Neel. A multi-scale landscape approach to predicting bird and moth rarity hotspots in a threatened pitch pine-scrub oak community (oral presentation). The Wildlife Society 10<sup>th</sup> Annual Conference, Burlington, Vermont. Sept. 6-10, 2003.

Coleman, N.Z., R.A. Harrington, J. Grand, and D.L. McCullough. A discriminant analysis of the relationship between *Phragmites australis* invasion of interdunal swales and landscape level variables (poster). 23<sup>rd</sup> Annual Meeting of the Society of Wetland Scientists, Lake Placid, New York. June 2-7, 2002.

Grand, J. and S. R. Beissinger. A demographic model for relocation of loggerhead (*Caretta caretta*) sea turtle nests (poster). 15<sup>th</sup> Annual Symposium on Sea Turtle Biology and Conservation, Hilton Head, SC. Feb. 20-25, 1995.

**PROFESSIONAL AFFILIATIONS**

1995-Present Member, Society for Conservation Biology

2003-Present Member, The Wildlife Society

**SERVICE**

2002 Reviewer, *Biological Conservation*

**SKILLS**

Proficient Spanish; proficient in various word processing, spreadsheet, database, statistical, desktop publishing, and web-editing programs for PC and Macintosh computers; Geographic Information Systems.

**REFERENCES**

Dr. Curtice R. Griffin, Professor, University of Massachusetts Amherst: 413-545-2640

Dr. Kevin McGarigal, Assistant Professor, University of Massachusetts Amherst: 413-577-0655

Dr. Maile C. Neel, Assistant Professor, University of Maryland: 301-405-9780