

# Julie L. Lockwood

## Curriculum Vitae

### General Information

Associate Professor  
Director, Graduate Program in Ecology and Evolution  
Department of Ecology, Evolution, and Natural Resources  
14 College Farm Road  
Rutgers University  
New Brunswick, NJ 08901-8525  
732-932-9336  
lockwood@aesop.rutgers.edu

### Education

<u>Institution</u>	<u>Degree</u>	<u>Year</u>
Georgia Southern College	BS Biology	1990
Georgia Southern Univ.	MS Biology	1991
Univ. of Tennessee	Ph.D. Zoology	1997

MS Thesis: Morphology, competition and the structure of some introduced passerine communities. Adviser: Michael P. Moulton.

Ph.D. Dissertation: Assembling ecological communities: investigations into theory and practice. Adviser: Stuart L. Pimm.

Post-doc: Patterns in biological invasions. Adviser: Daniel Simberloff.

### Employment History

- 1990 – 1991 Teaching Assistant, Georgia Southern University, Statesboro, GA.
- 1992 – 1997 Graduate Student Research Associate, University of Tennessee, Knoxville, TN.
- 1997 – 1998 Post-doctoral Research Associate, University of Tennessee, Knoxville, TN.
- 1998 – 2003 Assistant Professor, Environmental Studies, University of California, Santa Cruz, CA.
- 2003 – 2006 Assistant Professor, Ecology, Evolution and Natural Resources, Rutgers University, New Brunswick, NJ.
- 2006 – 2008 Director, Undergraduate Program, Ecology and Natural Resources Major, School of Environmental and Biological Sciences, Rutgers University.

- 2006 – Associate Professor, Ecology, Evolution and Natural Resources, Rutgers University, New Brunswick, NJ.
- 2007-2008 Director, Hutcheson Memorial Forest, Rutgers University.
- 2009 – Director, Graduate Program in Ecology and Evolution, Rutgers University.

## **Courses Taught**

- 1991 GENERAL ZOOLOGY LABORATORY: 1 section at Georgia Southern University
- 1991–94 GENERAL BIOLOGY LABORATORY: 10 sections at Georgia Southern University and 3 sections at University of Tennessee
- 1996 POPULATION BIOLOGY: 1 section at University of Tennessee.
- 1997 TAXONOMY AND CONSERVATION (graduate seminar) –co-taught with M. McKinney at Univ. of Tennessee.
- 1999 – 2001 NATURAL HISTORY OF BIRDS (undergraduate) – Univ. of California.
- 1998 TOPICS IN RESEARCH IN ENVIRONMENTAL STUDIES: ECOLOGICAL STATISTICS (graduate seminar) –co-taught with K. Holl at Univ. of California.
- 2000 – 2003 CONSERVATION BIOLOGY (graduate core course) – Univ. of California.
- 2000 TOPICS IN RESEARCH IN ENVIRONMENTAL STUDIES: CONSERVATION POLICY (graduate seminar) – co-taught with D. Press at Univ. of California
- 2000 – 2003 ADVANCED AVIAN RESEARCH: FIELD TECHNIQUES AND ANALYTICAL TOOLS (senior exit course) –Univ. of California.
- 2001 – 2003 CONSERVATION BIOLOGY (undergraduate core course) –Univ. of California.
- 2001 – 2003 GRADUATE RESEARCH SEMINAR (graduate core course) – co-taught with D. Kelso at Univ. of California
- 2001 ADVANCED READINGS IN ENVIRONMENTAL STUDIES: ON THE ORIGIN OF SPECIES (graduate seminar) – Univ. of California
- 2002 ANIMAL ECOLOGY AND CONSERVATION (undergraduate upper-division) – Univ. of California.

- 2003 TOPICS IN RESEARCH IN ENVIRONMENTAL STUDIES: THE EVOLUTION OF LIFE HISTORIES (graduate seminar) – Univ. of California.
- 2003 TOPICS IN RESEARCH IN ENVIRONMENTAL STUDIES: NULL MODELS IN ECOLOGY (graduate seminar) – Univ. of California.
- 2003 – PRINCIPLES OF ECOLOGY (undergraduate), co-taught – Rutgers University.
- 2004–2008 FIELD TECHNIQUES IN ECOLOGY AND NATURAL RESOURCES (undergraduate), co-taught – Rutgers University.
- 2004–2007 WILDLIFE ECOLOGY AND CONSERVATION (undergraduate) – Rutgers University.
- 2005 SPECIAL TOPICS IN ECOLOGY: ECOLOGICAL ECONOMICS (graduate) – Rutgers University.
- 2007 – ECOLOGY OF THE JERSEY SHORE (Byrne Freshman Seminar Series) – Rutgers University
- 2009 – VERTEBRATE ZOOLOGY (undergraduate) – Rutgers University.

### **Invited Guest Lectures**

- 1995 Guest lecture on “Ecological stability and biological diversity” Biological Invasions (senior and graduate level), Michael P. Moulton – professor: Univ. of Florida.
- 1996–1997 Guest lecture on “Invasive species and their effects on biodiversity”. Introduction to Biodiversity, Michael McKinney– professor: Univ. of Tennessee.
- 1996 Guest lecture on “Biological invasions”. Conservation Biology, S.L. Pimm – professor: Univ. of Tennessee.
- 2001 Guest lecture on “Predicting Invasion: the interplay of science, policy and law”. Biological Invasions (graduate seminar), Hal Mooney – professor: Stanford University.

### **Other teaching**

- 1999 Senior Thesis, “Identifying movement corridors for mountain lions on the central California coast”. Michelle Korpos, Univ. of California, Santa Cruz.

- 2001 Senior Internship, “The Western Burrowing Owl: Status and distribution on the University of California Campus, Santa Cruz, California.” Loni Beyer, Univ. of California, Santa Cruz.
- 2001 Senior Thesis, “Life History of the Bushtit: Species account and project proposal.” Rama Heinrich, Univ. of California, Santa Cruz.
- 2001 Education Abroad Program project, “Lerp psyllids and bird communities in California: Food web implications of a highly specialized invasive species in a disturbed environment.” James Gilroy, Univ. of East Anglia, Norwich, UK.
- 2002 Senior Thesis, “Molokai; a classification of the Coastal Zone using ArcView 3.0”, Travis Eaton, Univ. of California, Santa Cruz.
- 2004 Senior Thesis, “Interactions between small rodent populations and impacted tropical rainforests in Costa Rica”, Lindsey Buis-Kelley, Univ. of California, Santa Cruz.
- 2005 George H. Cook Thesis, “Bias in estimating the population sizes of grassland birds”, Ryan Sklar, Rutgers University.

### **Current and Former Students and Post-docs**

- Orin J. Robinson Rutgers University, Ph.d. Candidate. The role of fox predation on shorebird population viability.
- Orion Welden Rutgers University, Ph.d. Candidate. Conservation of shrub-dependent birds in the northeastern US.
- Julian Avery Rutgers University, Ph.d candidate; New World island birds: conservation and plumage evolution.
- Dr. Blake Mathys 2009, Ph.d. Rutgers University, Morphological evolution of birds recently introduced to islands: patterns of diversification. Currently a Visiting Assistant Professor at Richard Stockton College of New Jersey.
- Dr. David La Puma 2009 Ph.d. Rutgers University, Come hell or high water: conservation of the federally endangered Cape Sable seaside sparrow (*Ammodramus maritimus mirabilis*) in the dynamic Everglades. Currently a Research Scientist at New Jersey Audubon Society.
- Dr. Alison Seigal 2009 Ph.d. Rutgers University, Maximizing the effectiveness of grassland management for a grasshopper sparrow (*Ammodramus*

*savannarum*) metapopulation. Currently an Adjunct Professor at Barnard College, NY.

- Dr. Benjamin Baiser 2009 Ph.d. Rutgers University, Biodiversity in a rapidly changing world: from local interactions to large scale patterns. Currently a post-doctoral research associate at Harvard Forest.
- Dr. Tom Virzi 2008 Ph.d. Rutgers University, Effects of urbanization on the distribution and reproductive performance of the American Oystercatcher (*Haematopus palliatus palliatus*) in coastal New Jersey. Currently a post-doctoral researcher at Center for Remote Sensing and Spatial Analysis at Rutgers University.
- Thom Almendinger 2007 Rutgers University, M.Sc. “Overabundant White-tailed Deer and the Alteration of Forested Communities”. Currently employed as Natural Resource Specialist, Duke Farms, Somerset, New Jersey.
- Robert Somes 2006 Rutgers University, M.Sc. “The Future of Fire Management in the New Jersey Pine Barrens”. Currently employed by New Jersey Endangered and Nongame Species Program.
- Dr. Liba Pejchar 2004 Ph.d, University of California Santa Cruz, “Ecology of an endangered Hawaiian Honeycreeper and implications for conservation on private land”. Currently an assistant professor at Colorado State University.
- Dr. Rebecca Boulton 2005-2009, Post-doc, Rutgers University, “Dynamics and management of small populations of Cape Sable seaside sparrows”. Currently Honorary Staff at the Centre for Ornithology, University of Birmingham, UK.
- Dr. Phillip Cassey 2003-2004, Post-doc, Rutgers University, “Trend analyses for Cape Sable seaside sparrows.” Currently an Research Assistant Professor at the Centre for Ornithology, University of Birmingham, UK.

## **Professional Presentations**

- 1991 Statesboro, GA. The role of competition in structuring some introduced passeriform communities on oceanic islands. Department of Biology Seminar Series, Georgia Southern University.
- 1994 Knoxville, TN. Assembling agro-economically important communities. Evolutionary and Behavioral Ecology Seminar Group, University of Tennessee.

- 1995 Snowbird, Utah - Invadibility, diversity and equilibrium: assembly models without local stability assumptions. Invited Symposium Participant, Assembly Rules, Ecological Society of America.
- 1995 Knoxville, TN - Assembling communities *in silico* , and in Kansas. Department of Ecology and Evolutionary Biology Seminar Series, University of Tennessee.
- 1996 Knoxville, TN – Patterns in the biotic homogenization of the global avifauna. Invited, Department of Ecology and Evolutionary Biology Seminar Series, University of Tennessee, Knoxville.
- 1997 Baltimore, MD. – Using taxonomy to predict the success of introduced avifauna: the relative importance of transport vs. establishment. Ecological Society of America annual meetings.
- 1998 Davis, CA. – Biotic homogenization: a few winners replacing many losers in the next mass extinction. Invited, Conservation Biology Seminar Series, University of California, Davis
- 1999 Missoula, Montana – Biotic homogenization. Society for Conservation Biology.
- 2000 Naples, Florida – The role of fire in sustaining populations of Cape Sable seaside sparrows within the southern Everglades. Greater Everglades Ecosystem Restoration Conference.
- 2001 Kona, Hawaii – Biological homogenization: the loss and gain of species through invasion and extinction. Invited Symposium Participant, Maintaining Landscape Heterogeneity, Society for Range Management.
- 2002 Tampa, Florida – Implications of Cape Sable seaside sparrow demography on Everglades Restoration. Invited seminar, Department of Biology, University of South Florida.
- 2002 Tucson, Arizona – Accounting for climate change and sea level rise in the restoration of hydrology-plant-bird interactions in the Everglades. Invited Symposium Participant, Restoration and Global Climate Change, Ecological Society of America.
- 2003 Las Vegas, Nevada – The biogeography of invasions: are we creating a homogenized biosphere? Invited Symposium Participant, Biogeography and Conservation, Inaugural Meeting of the International Society for Biogeography.

- 2003 London, England – Predicting which species will become invasive: what's taxonomy got to do with it? Invited Symposium Participant, Phylogeny and Conservation, The Zoological Society of London.
- 2003 Key Largo, Florida – The response of Cape Sable Seaside Sparrows to fire. Invited Symposium Participant, Sustainable Ecosystems Institute Symposium on Avian Ecology and Everglades Restoration.
- 2004 New York, New York – Symposium Co-Chair, Slowing Homogenization: Conserving Native Species in an Age of Urban Sprawl, Society for Conservation Biology.
- 2004 New York, New York – The tribe has spoken : the case for using a multi-stage invasion model in our efforts to predict which non-native species will become harmful, Invited Seminar at Columbia University.
- 2004 Portland, Oregon – Biotic homogenization and the breakdown of biogeographic barriers. Invited Symposium Participant, Insights from Exotic Species, Ecological Society of America.
- 2004 Fairbanks, Alaska – Smoke on the water: the interplay of hydrology and fire and its effect on Everglades biodiversity. National Science Foundation Long-term Ecological Research Site Coordinating Committee Workshop.
- 2004 Statesboro, Georgia – The biology of nowhere: the loss of biodiversity through invasion and extinction, Georgia Southern University Department of Biology Distinguished Alumni Lecture.
- 2005 Hamilton, New Jersey – Conservation of grassland birds within Duke Farms, New Jersey Wildlife Society Annual Meetings.
- 2005 Newark, New Jersey – The role of propagule pressure in explaining invasion success, Rutgers Newark Biology Colloquium
- 2005 St. Louis, Missouri – The role of propagule pressure in explaining invasion success, Invited, Univ. of Missouri–St. Louis Biology Seminar Series
- 2006 New York, New York – The shape of things to come: taxonomic homogenization of island bird faunas, Invited, Lamont-Doherty Earth Observatory, Columbia University, Seminar Series.
- 2007 Miami, Florida – Status of the Cape Sable seaside sparrow: a view from the front lines, Invited Seminar, National Research Council, Everglades Restoration.

- 2008 Davis, California – More than just a pretty face: what can we learn about biological invasions from non-native birds, Invited Seminar, Univ. of California Davis Ecology and Evolution Seminar Series.
- 2008 New York, New York – Propagule madness: definitions and null hypotheses in invasion ecology, Invited Seminar, Columbia University Ecology, Evolution and Environmental Biology, Seminar Series.
- 2008 Storrs, Connecticut – Propagule madness: definitions and null hypotheses in invasion ecology, Invited Seminar, Univ. of Connecticut Ecology and Evolution Seminar Series.
- 2008 Storrs, Connecticut – In it for the long haul: conservation of the Cape Sable seaside sparrow in the Everglades, Florida, Invited Seminar, Univ. of Connecticut Natural Resource Management Seminar Series.
- 2009 Villanova, Pennsylvania – Homogenization of island bird faunas, Invited Seminar, Villanova University, Department of Biology.
- 2009 Newark, Delaware – Feeling less isolated: the fate of island bird diversity in the face of species invasions and extinctions, Invited Seminar, University of Delaware, Department of Entomology and Wildlife Biology.

### **Awards, Academic Honors**

- 1987 Academic All American
- 1996 Science Alliance Graduate Student Award of Excellence, Univ. of Tennessee, Division of Biology
- 2002 Awarded five-year Pepper-Gibberson Endowed Chairship, Co-held with Dennis Kelso, Environmental Studies, University of California, Santa Cruz – Declined.
- 2004 Distinguished Graduate Alumna, Department of Biology, Georgia Southern University.

### **University Service**

- 1997 Graduate Student representative for Graduate Student Handbook formulation, Univ. of Tennessee, Dept. of Zoology
- 1999 – 2000 Member, Graduate Committee – Univ. of California, Environmental Studies.
- 1999–2003 Member, Curriculum Committee – Univ. of California, Environmental Studies.

- 1999 Member, Search Committee for Soil Scientist – Univ. of California, Environmental Studies.
- 2000 Member, Graduate Seminar Committee – Univ. of California, Environmental Studies.
- 2000–2001 Member Long-range planning committee – Univ. of California, Environmental Studies.
- 2001 Chair, Search Committee for Senior Museum Scientist – Univ. of California, Environmental Studies.
- 2001–2003 Co-supervisor, Senior Museum Scientist – Univ. of California, Environmental Studies
- 2001 – 2003 Member, Campus Land Use Management Advisory Committee – Univ. of California
- 2004 – 2005 Member, Faculty Council – Rutgers University New Brunswick Campus.
- 2004 – 2007 Executive Board Member – Ecology and Evolution Graduate Program, Rutgers University.
- 2004 – 2007 Seminar Series Coordinator – Ecology and Evolution Graduate Program, Rutgers University.
- 2004 – Member, Undergraduate Curriculum Committee – Ecology, Evolution and Natural Resources, Rutgers University
- 2004 – 2007 Member, Graduate Curriculum Committee – Ecology and Evolution Graduate Program, Rutgers, University
- 2005 – Project Leader, Wildlife Conservation – Grant F. Walton Center for Remote Sensing, Rutgers University
- 2005 *Ad hoc* committee member for Cook College Dean, Transforming Undergraduate Education, Rutgers University.
- 2007 Member, Committee on Mentoring Faculty, Cook College, Rutgers University.
- 2006 Ad hoc committee to consider the freshman experience at the School of Environmental and Biological Science, Rutgers University.
- 2007 – 08 Member, Search Committee for Fisheries Oceanographer – Institute for Marine and Coastal Sciences, Rutgers University.

- 2008 Member, Review Panel for Infrastructure grants, School of Environmental and Biological Sciences, Rutgers University.
- 2009 – Member, Executive Committee, Hutcheson Memorial Forest, Rutgers University.
- 2009 – Member, Review Panel for Graduate Student Excellence Fellowships, School of Environmental and Biological Sciences, Rutgers University.
- 2009 – Member, Biological Sciences Advisory Committee, Rutgers Graduate School, New Brunswick.
- 2009 – Member, Executive Council, Ecology, Evolution and Natural Resources, Rutgers University.

### **Professional Service**

- 1998 Participant in National Center for Ecological Analysis and Synthesis workshop on Sampling Curves
- 1999–2002 Participant in National Center for Ecological Analysis and Synthesis workshop on Phylogeny and Conservation.
- 2004, 2005 Participant in National Center for Ecological Analysis and Synthesis workshop on Exotic species – insights into understanding ecology, evolution and biogeography.
- 1998 – Peer review for *Science, Biodiversity and Conservation, Behavioral Ecology, Diversity and Distributions, Ecological Restoration, The Condor, Ardeola, American Naturalist, Landscape Ecology, Biological Invasions, Biological Journal of the Linnean Society, Ecological Applications, Biological Conservation, Journal of Ecology, Proceedings of the Royal Society of London, Series B, Ecology Letters, Trends in Ecology and Evolution, Wilson Bulletin, Restoration Ecology, Wildlife Research, BioScience, Functional Ecology, Ecological Economics, Frontiers in Ecology and the Environment*.
- 1999 – Grant reviews – National Geographic Society, National Science Foundation Division of Environmental Biology, Lincoln Park Zoo Scott Neotropical Fund, BiodivERsA: Research for the understanding of European Biodiversity.
- 2002 Outside reviewer for P. Cassey's Ph.d dissertation, Australian School of Environmental Studies, Griffith University.

- 2004 Outside reviewer for Theo Wassenaar's Ph.d dissertation, Faculty of Natural and Agricultural Sciences, University of Pretoria, South Africa.
- 2002 – Outside reviewer for proposed books: Oxford University Press, Cambridge University Press, University of Chicago Press.
- 2001 – 2009 Editorial Board – *Conservation Biology*
- 2001 – 2005 Editorial Advisory Board – *Global Ecology and Biogeography*
- 2001 – Advisory Panelist – Managing fire within Everglades National Park for Cape Sable seaside sparrows, Everglades National Park, Big Cypress National Preserve, and USFWS
- 2003 Symposium Chair Invasive Species Effects– 5th Annual Bay Area Conservation Biology Symposium, Berkeley, California.
- 2004 – 2007 Editorial Board – *Animal Conservation*
- 2004 – 2008 Member, Scientific Advisory Panel, Important Bird Areas of New Jersey, New Jersey Audubon Society.
- 2005 Participant, New Jersey Wildlife Summit, Hamilton, New Jersey.
- 2005 – 2007 Chair, Nominations Committee, New Jersey Wildlife Society
- 2005 – 2007 Associate Editor – *Global Ecology and Biogeography*
- 2005, 2006 Peer Review Committee Member, *Landscape Project*, New Jersey Division of Fish and Wildlife, Non-game and Endangered Species.
- 2006 Participant and Sub-Group Co-Chair – *The link between propagule pressure and aquatic nonnative invasion success and impacts*, United States Environmental Protection Agency Workshop, Washington, DC.
- 2007 – 2009 National Science Foundation review panel for Dissertation Improvement Grants - Ecology.
- 2007 Interview for High Country News Feature Article “Wish You Weren't Here” on the invasion of quagga mussels in Lake Mead, Arizona.
- 2007 Outside reviewer for Martin Taylor's Master of Science thesis, Faculty of Natural Resource and Agricultural Science, University of Pretoria, South Africa.
- 2008 – Editorial Board – *Biological Invasions*

- 2009 Review Panel, *Women in Wildlife Award*, Conserve Wildlife Foundation, New Jersey.
- 2009 – American Editor (Zoology), *Biological Conservation*
- 2009 Interview for *BBC Online* on extinction patterns within geological and modern taxa

## **Professional membership**

- 1992 – American Ornithologist Union
- 1994 – 1999 Society for Ecological Restoration
- 1998 – Society for Conservation Biology
- 1999 – Cooper Ornithological Society
- 2001 – Wilson Ornithological Society
- 2001 – Association of Field Ornithologists
- 2002 – Ecological Society of America
- 2002 – International Biogeography Society – Charter Member
- 2003 – 2009 Florida Coastal Everglades Long-Term Ecological Research Program (LTER), Florida International University
- 2004 – 2008 Fellow, Zoological Society of London

## **Grants and Fellowships**

### *Research*

- 1990 Graduate Student Travel Grant for Travel to United States National Museum of Natural History, Washington, D.C., Georgia Southern University – \$1,000
- 1991 Graduate Student Research Grant for Field work on exotic birds of Bermuda, Georgia Southern University – \$500
- 1994 Alexander Hollander Fellowship, Univ. of Tennessee, Division of Biology – \$12,000

- 1994 Summer Research Assistant Fellowship for Assembling ecological communities at the Land Institute, Salina Kansas, Univ. of Tennessee, Division of Biology – \$3,000
- 1998 Critical Ecosystems Science Initiative, National Park Service for Demographic study on the Cape Sable seaside sparrow, Everglades National Park – \$20,000
- 1999 Committee on Research Fellowship for research on The insularity effects among birds introduced to oceanic islands, Univ. of California, Division of Social Science – \$6,000
- 2000 Faculty Research Award for research on The effects of introduced birds on native Hawaiian Honeycreepers, Univ. of California, Division of Social Science – \$6,000
- 2000 Critical Ecosystems Science Initiative, National Park Service for research on The relationship between fire and breeding success in the Cape Sable seaside sparrow, Everglades National Park – \$60,000
- 2001 Critical Ecosystems Science Initiative, National Park Service for research on the Rffects of fire and hydrology on spatial variability in demographic parameters of the Cape Sable seaside sparrow, Everglades National Park – \$50,000
- 2001 Divisional Research Award for Research on the communication gap between practitioners and academics when building nature reserve networks, Univ. of California, Division of Social Science – \$6,000
- 2002 Critical Ecosystems Science Initiative, National Park Service for research on The effects of fire and hydrology on the Cape Sable seaside sparrow, Everglades National Park – \$30,000
- 2002 Critical Ecosystems Science Initiative, National Park Service for Fire effects on Cape Sable seaside sparrow demography, Everglades National Park – \$75,000
- 2003 Leverhulme Trust, United Kingdom, for Understanding biological invasions using avian model systems– £56,000 (\$100,000) (with T. Blackburn and D. Sol).
- 2003 Divisional Research Award for Documenting changes in the diversity and abundance of non-native plants within Hakalau National Wildlife Refuge, Hawaii, – \$4,000 – Declined.

- 2003 Critical Ecosystems Science Initiative, National Park Service for Fire effects on Cape Sable seaside sparrow demography, – \$92,000.
- 2004 Critical Ecosystems Science Initiative, National Park Service for Fire effects on Cape Sable seaside sparrows, – \$99,000
- 2004 US Fish and Wildlife Service for Detailed study of nest success and causes of nest failure for the Cape Sable seaside sparrow, \$270,000
- 2005 Duke Farms Foundation for Conservation of threatened grassland birds within Duke Farms; Phase One, – \$5450
- 2005 Critical Ecosystems Science Initiative, National Park Service for Fire effects on Cape Sable seaside sparrows, – \$146,000
- 2006 Critical Ecosystems Science Initiative, National Park Service for Recovering small Cape Sable seaside sparrow subpopulations: the breeding and dispersal of sparrows in the eastern Everglades, – \$45,172
- 2006 Duke Farms Foundation for Conservation of threatened grassland birds within Duke Farms; Phase Two, – \$10,000
- 2007 Critical Ecosystems Science Initiative, National Park Service for Recovering small Cape Sable seaside sparrow subpopulations: the breeding and dispersal of sparrows in the eastern Everglades – \$152,000 (with R. Boulton)
- 2007 Bermuda Audubon Society for Conservation Status of Eastern Bluebirds in Bermuda, – \$2,000 (with J. Avery)
- 2007 National Geographic Society for Do non-native species show macro-evolutionary patterns? Non-native passerines and the Island Rule – \$14,000 (with B. Mathys)
- 2008 US Fish and Wildlife Service for Conspecific attraction and the recovery of the Cape Sable seaside sparrow (*Ammodramus maritimus mirabilis*) – \$75,000 (with R. Boulton)
- 2008 Critical Ecosystems Science Initiative, National Park Service for Recovering small Cape Sable seaside sparrow subpopulations: the breeding and dispersal of sparrows in the eastern Everglades – \$185,000
- 2008 US Fish and Wildlife Service, Developing an emergency management action plan for the endangered Cape Sable seaside sparrow (*Ammodramus maritimus mirabilis*) – \$37,184 (with G. Slater, R. Boulton, and S.L. Pimm)

- 2008 National Fish and Wildlife Foundation, Conservation of American oystercatchers in New Jersey – \$140,000 (with T. Virzi)
- 2008 Rutgers University Research Council, Conservation genetics of eastern bluebirds in Bermuda – \$1,940 (with J. Avery)
- 2009 Critical Ecosystems Science Initiative, National Park Service, Recovering small Cape Sable seaside sparrow subpopulations: the breeding and dispersal of sparrows in the eastern Everglades – \$230,000

### *Teaching*

- 2006 Upgrading Ecology, Evolution and Natural Resources Teaching Collection – \$20,600 (Rutgers University, Cook College)
- 2007 Ecology, Evolution, and Natural Resources Teaching Laboratory Upgrades – \$5,667 (Rutgers University)
- 2008 Digital capabilities in Ecology and Organismal Biology Lab Courses – \$7,100 (Rutgers University, with D. Howe).

### **Books**

- 2009 Blackburn, T.M., J.L. Lockwood, and P. Cassey. *Avian Invasions: The Ecology and Evolution of Exotic Birds*. Oxford Avian Biology Series, Oxford University Press.
- 2007 Lockwood, J.L., M.F. Hoopes, and M.P. Marchetti. *Invasion Ecology*. Blackwell Scientific Press, UK.
- 2001 Lockwood, J.L. and McKinney, M. editors. *Biotic Homogenization*. Kluwer Academic/Plenum Publishers, New York.

### **Invited Book Reviews**

- In Press Lockwood, J.L. Book review of *Invasion Biology* by Mark A. Davis. *Biological Invasions*
- 2007 Lockwood, J.L. Learning to converse at the big table. Book review of *Key Topics in Conservation Biology*. *Ecology* 88(3): 804-805.
- 2006 Lockwood, J.L. Stranger in a strange land: Book review of *Out of Eden: An Odyssey of Ecological Invasion*. *Issues in Science and Technology* 22:85-88.

### **Journal Articles and Book Chapters (peer-reviewed)**

- In Review Baiser, B., G.J. Russell, and J.L. Lockwood. Food web topology and species richness control invasion success via trophic interactions in model food webs. *Oikos*.
- In Review Virzi, T., J.L. Lockwood, R.G. Lathrop and D. Drake. Predicting American Oystercatcher breeding distribution in an urbanized coastal ecosystem using maximum entropy modeling. *Ecography*.
- In Review Baiser, B. and J.L. Lockwood. The relationship between functional and taxonomic homogenization. *Ecology Letters*.
- In Review Seigal, A. and J.L. Lockwood. How increasing levels of private land enrollment in conservation agreements affect the population viability of grassland birds. *Biodiversity and Conservation*.
- In Review Blackburn, T.M., J.L. Lockwood, and P. Cassey. Fifty years on: confronting Elton's hypotheses about invasion success with data from exotic birds. In *Fifty years of invasion ecology: the legacy of Charles Elton* (D.M. Richardson, ed.). John-Wiley/Blackwell Publishing, UK.
- In Review Baiser, B., J.L. Lockwood, and P. Cassey. A dendrogram based method for quantifying change in compositional similarity of ecological assemblages. *Journal of Biogeography*
- In Review Olden, J.D., J.L. Lockwood, and C.L. Parr. Species invasions and the biotic homogenization of faunas and floras. In *Conservation Biogeography* (R.J. Whittaker and R. Ladle, eds.) Oxford University Press.
- In Press Boulton, R.L. and J.L. Lockwood. Response of endangered Cape Sable seaside sparrows to nest exclosures. *Florida Field Naturalist*
- In Press Maslo, B. and J.L. Lockwood. Evidence-based decisions on the use of predator exclosures in shorebird conservation. *Biological Conservation*.
- In Press Lockwood, J.L., and T. Virzi. Taxonomic patterns. In *Encyclopedia of Invasive Introduced Species* (D. Simberloff and M. Rejmanek, eds.) University of California Press, Berkeley, CA.
- In Press Mathys, B. and J.L. Lockwood. Rapid evolution of great kiskadees on Bermuda: an assessment of the ability of the Island Rule to predict the direction of contemporary evolution within exotic vertebrates. *Journal of Biogeography*.
- In Press Blackburn, T.M., P. Cassey and J.L. Lockwood. The role of species traits in overcoming small initial population sizes within exotic birds. *Global Change Biology*

- 2009 Lockwood, J.L., T.M. Blackburn, and P. Cassey. The more you introduce the more you get: the role of colonization pressure and propagule pressure in invasion ecology. *Diversity and Distributions* 15: 904-910.
- 2009 J.L. Lockwood, T.M. Blackburn, P. Cassey and J.D. Olden. The shape of things to come: non-native mammalian predators and the fate of island bird diversity. Pages 235-248, in *Holocene Extinctions* (S. Turvey ed.). Oxford University Press.
- 2009 Blackburn, T.M., J.L. Lockwood, and P. Cassey. Following birds on the pathway to invasion, and beyond. *The Biologist*, 56: 80-85.
- 2009 Boulton, R.L., J.L. Lockwood, M.J. Davis, A. Pedziwilk, K.A. Broadway, J.T. Broadway, D. Okines and S.L. Pimm. Endangered Cape Sable seaside sparrow survival. *Journal of Wildlife Management* 73(4): 530-537.
- 2008 de Valpine, P., K. Cuddington, M.F. Hoopes, and J.L. Lockwood. Is the spread rate of invasive species regulated? Using ecological theory to interpret statistical analysis. *Ecology* 89: 2377-2383.
- 2008 Baiser, B., R.L. Boulton and J.L. Lockwood. The influence of water flows on nest success of the endangered Cape Sable seaside sparrow in the Florida Everglades. *Animal Conservation* 11: 190-197.
- 2008 Baiser, B, J.L. Lockwood, D.A. La Puma, and M. Aronson. The perfect storm: two ecosystem engineers interact to degrade deciduous forests of New Jersey. *Biological Invasions* 10: 785-795.
- 2008 Cassey, P., T.M. Blackburn, R.P. Duncan and J.L. Lockwood. Lessons from non-native bird introductions as a possible information source for managing translocations of avian species. *Wildlife Research* 35: 193-201.
- 2008 Cassey, P., J.L. Lockwood, J.D. Olden and T.M. Blackburn. The varying role of population abundance in structuring indices of biotic homogenization. *Journal of Biogeography* 35: 884-892.
- 2008 T.M. Blackburn, P. Cassey, and J.L. Lockwood. The island biogeography of exotic birds. *Global Ecology and Biogeography* 17: 246-251.
- 2007 Cassey, P., J.L. Lockwood, and K.H. Fenn. Using long-term occupancy information to inform the management of Cape Sable seaside sparrows in the Everglades. *Biological Conservation* 139: 139-149.

- 2007 Vellend, M., L.J. Harmon, J.L. Lockwood, M.M. Mayfield, A.R. Hughes, J.P. Wares, and D.F. Sax. Effects of exotic species on evolutionary diversification. *Trends in Ecology and Evolution* 22: 441-496.
- 2007 LaPuma, D.A., J.L. Lockwood, and M.A. Davis. Endangered species management requires a new look at benefit of fire: the Cape Sable seaside sparrow in the Everglades ecosystem. *Biological Conservation* 136: 398-407.
- 2007 Cassey, P., J.L. Lockwood, T.M. Blackburn, and J.D. Olden. Spatial scale and evolutionary history determine the degree of taxonomic homogenization across island bird assemblages. *Diversity and Distributions*, 13: 458-466
- 2006 Cassey, P., T.M. Blackburn, J.L. Lockwood, D.F. Sax. A stochastic model for integrating changes in species richness and community similarity across spatial scales. *Oikos* 115: 207-218.
- 2006 Lockwood, J.L. Life in a double-hotspot: the transformation of Hawaiian bird diversity following invasion and extinction. *Biological Invasions* 8: 449-457.
- 2006 Marchetti, M.P., J.L. Lockwood and T. Light. Urbanization promotes invasion and extinction but not homogenization among California freshwater fishes. *Biological Conservation*, 127: 310-318.
- 2005 Lockwood, J.L. Predicting which species will become invasive: what's taxonomy got to do with it? Pages 365-386, in *Phylogeny and Conservation*, edited by A. Purvis, J. Gittleman and T. Brooks. Cambridge University Press, Cambridge, UK.
- 2005 Lockwood, J.L. Introduction: Insights into biogeography. Pages 309-314, in D. Sax, J. Stachowicz and S. Gaines (eds). *Species Invasions – insights into ecology, evolution and biogeography*. Sinauer Press.
- 2005 McKinney, M.L. and J.L. Lockwood. Community composition and homogenization: evenness and abundance of native and exotic species. Pages 365-381 in, D. Sax, J. Stachowicz and S. Gaines (eds). *Species Invasions – insights into ecology, evolution and biogeography*. Sinauer Press.
- 2005 Pejchar, L, K. Holl and J. Lockwood. Hawaiian honeycreeper home range size varies with habitat: implications for native *Acacia koa* forestry. *Ecological Applications* 15(3): 1053-1061.

- 2005 Lockwood, J.L. P. Cassey, and T.M. Blackburn. The role of propagule pressure in explaining species invasion. *Trends in Ecology and Evolution* 20(5): 223-228.
- 2005 Cassey, P., T.M. Blackburn, R.P. Duncan, and J.L. Lockwood. Lessons from the establishment of exotic species: a meta-analytical case study using birds. *Journal of Animal Ecology* 74(2): 250-258.
- 2004 Lockwood, J.L. How do biological invasions alter diversity patterns? A biogeographical perspective. Pages 271-310, in *Frontiers in Biogeography*, edited by M. Lomolino and L. Heaney. Sinauer Press.
- 2004 Lockwood, J.L. and J. Gilroy. The portability of foodweb dynamics: reassembling an Australian eucalypt-psyllid-bird association within California. *Global Ecology and Biogeography* 13:445-450.
- 2004 Cassey, P., T.M. Blackburn, R.P. Duncan, D. Sol and J. Lockwood. Global patterns of introduction effort and establishment success in birds. *Proceedings of the Royal Society, B* 271:S405-S408.
- 2004 Cassey, P., T.M. Blackburn, G. Russell, K. Jones, and J.L. Lockwood. Influences on the transport and establishment of exotic bird species: a analysis of the parrots (Psittaciformes) of the world. *Global Change Biology* 10:427-426.
- 2004 Cassey, P., T.M. Blackburn, K. Jones, and J.L. Lockwood. Mistakes in the analysis of exotic species establishment: source pool designation and correlates of introduction success among parrots (Psittaciformes) of the world. *Journal of Biogeography* 31:277-284
- 2004 Lockwood, J.L. and C.L. Samuels. Assembly models and restoration practice. Pages 55-70 in, *Assembly rules and restoration ecology: bridging the gap between theory and practice*, edited by V. Temperton, R. Hobbs, S. Halle, and T. Nettle. Island Press, Washington DC.
- 2003 Lockwood, J.L. M. Ross, and J. Sah. Smoke on the water: the influence of fire and hydrology on Everglades restoration. *Frontiers in Ecology and the Environment* 9(1): 462-468.
- 2003 Samuels, C.L. and J.L. Lockwood. Weeding out surprises: incorporating uncertainty into restoration models. *Ecological Restoration*, 20(4): 262-269.
- 2002 Lockwood, J.L., G.J. Russell, J.L. Gittleman, C. Daehler, M.L. McKinney and A. Purvis. A metric for analyzing taxonomic patterns of extinction risk. *Conservation Biology*, 16(4): 1137-1142.

- 2001 Lockwood, J.L., K.H. Fenn, J.M. Caudill, D. Okines, J.R. Duncan, O.L. Bass, Jr., and S.L. Pimm. The implications of Cape Sable seaside sparrow demography for Everglades restoration. *Animal Conservation* 4: 275-281.
- 2001 Duncan, J. R. and J.L. Lockwood. Extinction in a field of bullets: a search for causes in the decline of freshwater fishes. *Biological Conservation* 102: 97-105.
- 2001 Lockwood, J.L., D. Simberloff, M. McKinney, and B. Von Holle. How many, and which, plants will invade natural areas. *Biological Invasions* 3: 1-8.
- 2001 Duncan, J.R. and J.L. Lockwood. Spatial homogenization of the aquatic fauna of Tennessee: extinction and invasion following land use change and habitat alteration. Pages 245-258, in, *Biotic Homogenization*, edited by J.L. Lockwood and M.L. McKinney, Kluwer Academic/Plenum Press, New York.
- 2001 McKinney, M.L. and J.L. Lockwood. Biotic homogenization: a sequential and selective process. Pages 1-18, in *Biotic Homogenization*, edited by J.L. Lockwood and M.L. McKinney, Kluwer Academic/Plenum Press, New York.
- 2000 Lockwood, J.L. and K.H. Fenn. The recovery of the Cape Sable seaside sparrow through restoration of the Everglades ecosystem. *Endangered Species UPDATE* 17(1): 10-14.
- 2000 Lockwood, J.L., T.M. Brooks, and M.L. McKinney. Taxonomic homogenization of the global avifauna. *Animal Conservation* 3:27-35.
- 1999 McKinney, M. L. and Lockwood, J.L. Biotic homogenization: a few winners replacing many losers in the next mass extinction. *Trends in Ecology and Evolution* 14(11): 450-453.
- 1999 Lockwood, J.L. Using taxonomy to predict success among introduced avifauna: relative importance of transport and establishment. *Conservation Biology* 13(3): 560-567.
- 1999 Lockwood, J.L., M.P. Moulton and K. Balent. Introduced avifaunas as natural experiments in community assembly. Pages 108-129, in *Ecological Assembly Rules: Perspectives, Advances and Retreats*, edited by E. Weiher and P.A. Keddy., Cambridge University Press.
- 1999 Lockwood, J.L. and S.L. Pimm. When does restoration succeed? Pages 363-392, in *Ecological Assembly Rules: Perspectives, Advances and*

*Retreats*, edited by E. Weiher and P.A. Keddy, Cambridge University Press.

- 1997 Lockwood, J.L. R.D. Powell, M.P. Nott, and S.L. Pimm. Assembling ecological communities in time and space. *Oikos*:80:549-553.
- 1997 Lockwood, J.L., M.P. Moulton and R.K. Brooke. Morphological dispersion of the introduced land-birds of Saint Helena. *Ostrich*:67:111-117.
- 1997 Lockwood, J.L., K.H. Fenn, J.L. Curnutt, D. Rosenthal, K.L. Balent, and A.L. Mayer. Life history of the endangered Cape Sable Seaside Sparrow. *Wilson Bulletin* 109(4):720-731.
- 1997 Lockwood, J.L. An alternative to succession: Assembly rules offer guide to restoration efforts. *Restoration and Management Notes* 15(1):45-50.
- 1996 McKinney, M.L., J.L. Lockwood, and D. R. Frederick. Does ecosystem and evolutionary stability include rare species? In *New Perspectives on Faunal Stability in the Fossil Record*, edited by L.C. Ivany and K.M. Schopf. Special issue of *Paleogeology, Paleoclimatology and Paleocology* 127(1-4):191-208.
- 1995 Brooke, R.K., J.L. Lockwood, and M.P. Moulton. Patterns of success in passeriform bird introductions on Saint Helena. *Oecologia* 103(3): 337-342.
- 1994 Lockwood, J.L. and S.L. Pimm. Species: would any of them be missed? *Current Biology* 4(5): 455-457.
- 1994 Lockwood, J.L. and M.P. Moulton. Ecomorphological pattern in Bermuda birds: the influence of competition and implications for nature preserves. *Evolutionary Ecology* 8: 53-60.
- 1994 Lockwood, J.L., J.E. Greene, K. Wakelee, E. VanGelder, S. Ashe, and R. Aburomia. A description of Maui Parrotbill (*Pseudonester xanthophrys*) nests and nesting behavior. *'Elepaio* 54(10): 6164.
- 1994 Curnutt, J., J.L. Lockwood, H. Luh, P. Nott, and G. Russell. Hotspots and species diversity. *Nature* 367:326327.
- 1993 Lockwood, J.L., M.P. Moulton, and S.K. Anderson. Morphological assortment and the assembly of communities of introduced Passeriformes on oceanic islands: Tahiti vs. Oahu. *The American Naturalist* 141(3): 398-408.

- 1993 Scott, M.A., J. L. Lockwood, and M.P. Moulton. Effects of microhabitat on nest box selection and annual productivity of Eastern Bluebirds (*Sialia sialis*) in southeastern Georgia. *Texas Journal of Science* 45(1): 7785.
- 1992 Moulton, M.P. and J.L. Lockwood. Morphological dispersion of introduced Hawaiian finches: evidence for competition and a Narcissus effect. *Evolutionary Ecology* 6: 45–55.

### **Publications (Non-Peer Reviewed)**

- 2009 Virzi, T., J.L. Lockwood, R.L. Boulton and M.J. Davis. Recovering small Cape Sable seaside sparrow populations: breeding and dispersal of sparrows in the East Everglades, 2009 Annual Report. USFWS, Vero Beach, FL and Everglades National Park, Homestead, FL.
- 2009 Slater, G.L., R.L. Boulton, C.N. Jenkins, J.L. Lockwood and S.L. Pimm. Emergency management action plan for the endangered Cape Sable seaside sparrow (*Ammodramus maritimus mirabilis*). USFWS, Vero Beach, FL.
- 2009 Boulton, R.L., J.L. Lockwood, and M.J. Davis. Recovering small Cape Sable seaside sparrow populations: breeding and dispersal of sparrows in the East Everglades, 2008 Annual Report. USFWS, Vero Beach, FL and Everglades National Park, Homestead, FL.
- 2009 Lockwood, J.L. and J.D. Avery. Hutcheson Memorial Forest 2008 Annual Report. Rutgers University, New Brunswick, NJ
- 2008 Boulton, R.L., M.J. Davis, and J.L. Lockwood. Collection of demographic and spatial data on Cape Sable seaside sparrows: West Camp Fire 22 June 2008. Modification report, Everglades National Park, Homestead, FL.
- 2007 Lockwood, J.L., R.L. Boulton, B. Baiser, M.J. Davis and D.A. La Puma. Detailed study of Cape Sable seaside sparrow nest success and causes of nest failure: Recovering small populations of Cape Sable seaside sparrows: 2007 annual reports. USFWS, Vero Beach, FL and Everglades National Park, Homestead, FL.
- 2007 Lockwood, J.L., D. A. La Puma, P. Cassey, M.J. Davis and K.H. Fenn. Fire effects on the Cape Sable seaside sparrow: final report. Everglades National Park, Homestead, FL
- 2006 Lockwood, J.L., D. La Puma, P. Cassey, M. Davis and K.H. Fenn. Fire effects on the Cape Sable seaside sparrow: 2006 annual report. Everglades National Park, Homestead, FL.

- 2006 Lockwood, J.L., B. Baiser, R. Boulton and M. Davis. Detailed study of Cape Sable seaside sparrow nest success and causes of nest failure: 2006 annual report. US Fish and Wildlife Service, Vero Beach, FL.
- 2006 Seigel, A. and J.L. Lockwood. Conservation of threatened birds on agricultural grasslands at Duke Farms. Phase one results. Duke Farms Foundation, Hillsborough, NJ.
- 2005 Lockwood, J.L. Detailed study of Cape Sable seaside sparrow nest success and causes of nest failure: 2005 annual report. US Fish and Wildlife Service, Vero Beach, FL.
- 2004 Lockwood, J.L. and D. La Puma. Fire effects on Cape Sable seaside sparrow demography: 2004 final report. US Fish and Wildlife Service, Vero Beach, Florida.
- 2004 Lockwood, J.L. Fire effects on Cape Sable seaside sparrow demography: 2003 final report. US National Park Service, Everglades National Park, Homestead, FL.
- 2004 Lockwood, J.L. Fire effects on Cape Sable seaside sparrow demography: 2003 final report. US Fish and Wildlife Service, Vero Beach, Florida.
- 2002 Lockwood, J.L. Fire effects on Cape Sable seaside sparrow demography: 2002 final report. National Park Service, Everglades National Park, Homestead, Florida.
- 2002 Pimm, S.L., J.L. Lockwood, C. Jenkins, J.L. Curnutt, M.P. Nott, R. Powell, and O.L. Bass Jr. A sparrow in the grass. A report on the first ten years of research on the Cape Sable Seaside Sparrow (*Ammodramus maritimus mirabilis*). National Park Service, Everglades National Park, Homestead, Florida
- 2000 Lockwood, J.L. Demography and breeding behavior of the Cape Sable seaside sparrow. 2000 Annual Report, submitted to the National Park Service, Everglades National Park, Homestead, Florida.
- 2000 Pimm, S.L. and J.L. Lockwood. Chapter 5. The 2000 Cape Sable sparrow census. In: S.L. Pimm, ed. The 2000 Cape Sable sparrow annual report. Submitted to the National Park Service, Everglades National Park, Homestead, FL.
- 2000 Duncan, J.R. and J.L. Lockwood. Homogenization of Tennessee's aquatic biodiversity: assessing the past and predicting the future. Pages 51-56. Proceedings from the tenth annual Tennessee water resources symposium, April 10-12, Montgomery Bell State Park, Burns, TN.

- 1999 Lockwood, J.L. Summary of research on exotic birds present within Hakalau Forest National Wildlife Refuge. Report prepared for U.S. Fish and Wildlife Service, Hilo, Hawaii.
- 1998 Pimm, S.L., Bass, O.L., Curnutt, J., Fenn, T., Jenkins, C., Lockwood, J.L., Mayer, A., Nott, P., and Powell, R. Response to the AOU [American Ornithologists Union] review committee on the Cape Sable seaside sparrow. 'White paper' prepared for the United States Fish and Wildlife Service. \*Names listed alphabetically after first author.
- 1998 Lockwood, J.L. Chapter 6. In: Population ecology of the Cape Sable seaside sparrow (*Ammodramus maritimus mirabilis*). Annual report, 1998. NPS, Everglades National Park, Homestead, Florida.
- 1997 Pimm, S.L., K. Balent, T. Brooks, J. Curnutt, T. Fenn, N. Fraley, S. Killeffer, J. Lockwood, L. Manne, A. Mayer, M.P. Nott, G. Russell, and E. Stanton. Population ecology of the Cape Sable Sparrow (*Ammodramus maritimus mirabilis*): Annual Report, 1997. NBS/NPS, Everglades National Park, Homestead, Florida.
- 1995 Pimm, S.L., T. Brooks, J.L. Curnutt, J.L. Lockwood, L. Manne, A. Mayer, M. Nott, and G. Russell. Population ecology of the Cape Sable Sparrow (*Ammodramus maritimus mirabilis*): Annual Report, 1995. NBS/NPS, Everglades National Park, Homestead, Florida.

## Publications In Revision

- In Revision Virzi, T., J.L. Lockwood, D. Drake and T. Pover. Predator-free islands help sustain American Oystercatchers within an urbanized barrier island complex. *Bird Conservation International*.

## References

- STUART L. PIMM, Doris Duke Chair of Conservation Ecology, Nicholas School of the Environment and Earth Sciences, Room A301 LSRC building, Box 90328, Duke University, Durham, NC 27708, USA (919) 613 8141  
StuartPimm@aol.com
- DAN SIMBERLOFF, Professor, Gore-Hunger Chair of Excellence, University of Tennessee, Knoxville, TN. (423) 974-0849, dsimberloff@utk.edu
- MICHAEL L. MCKINNEY, Professor, Dept. of Geology and Earth Science, University of Tennessee, Knoxville, TN. (423) 974-6359, mmckinne@utk.edu.
- TIM BLACKBURN, Director, Institute of Zoology, Zoological Society of London, Regents Park, UK, tim.blackburn@ioz.ac.uk
- HENRY JOHN-ALDER, Chair, Ecology, Evolution and Natural Resources, Rutgers University, New Brunswick, NJ (732) 932-1064, henry@aesop.rutgers.edu