

# Julie L. Lockwood

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## General Information

Professor  
Ecology, Evolution, and Natural Resources  
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## 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

## Employment History

- 2012 – pres. Professor, Ecology, Evolution and Natural Resources, Rutgers University.
- 2008 – 2015, 2017  
Director, Graduate Program in Ecology and Evolution, Rutgers University.
- 2006 – 2012 Associate Professor, Ecology, Evolution and Natural Resources, Rutgers University, New Brunswick, NJ.
- 2007-2008 Director, Hutcheson Memorial Forest, Rutgers University.
- 2006 – 2008 Director, Undergraduate Program, Ecology and Natural Resources Major, Rutgers University.
- 2003 – 2006 Assistant Professor, Ecology, Evolution and Natural Resources, Rutgers University.

1998 – 2003 Assistant Professor, Environmental Studies, University of California, Santa Cruz.

1997 – 1998 Post-doctoral Research Associate, University of Tennessee.

## Awards and Academic Honors

- 2011 Biology Alumna of the Year, Georgia Southern University.
- 2004 Distinguished Graduate Alumna, Department of Biology, Georgia Southern University.
- 2002 Pepper-Gibberson Endowed Chairship, Co-held with Dennis Kelso, Environmental Studies, University of California, Santa Cruz – Declined.
- 1996 Science Alliance Graduate Student Award of Excellence, Univ. of Tennessee, Division of Biology
- 1987 Academic All American

## Books

5. B. Maslo and J.L. Lockwood (eds). 2014. *Coastal Conservation*. Cambridge University Press.
4. Lockwood, J.L., M.F. Hoopes, and M.P. Marchetti. 2013. *Invasion Ecology*, 2<sup>nd</sup> edition. Wiley-Blackwell Press, UK.
3. Blackburn, T.M., J.L. Lockwood, and P. Cassey. 2009. *Avian Invasions: The Ecology and Evolution of Exotic Birds*. Oxford Avian Biology Series, Oxford University Press.
2. Lockwood, J.L., M.F. Hoopes, and M.P. Marchetti. 2007. *Invasion Ecology*. Blackwell Scientific Press, UK.
1. Lockwood, J.L. and McKinney, M. editors. 2001. *Biotic Homogenization*. Kluwer Academic/Plenum Publishers, New York.

## Journal Articles and Book Chapters

**Bold** denotes my graduate students, *Italics* denotes an undergraduate in my lab, ***Bold Italics*** denotes my post-doc (all only marked for work conducted while formally a part of my lab group)

- 117R. **Valentin, R.**, D. Fonseca, A. Nielson, and J.L. Lockwood. In Review. Using eDNA for early detection of terrestrial exotic species to minimize impacts on the environment. *Frontiers in Ecology and Evolution*.
- 116R. Bustamante, M, et al. In Review. Direct and indirect drivers of change in biodiversity and nature's benefits to people in the context of different perspectives on quality of life. Chapter 4 in *Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES), Regional Assessment of the Americas*. **Listed as 'Lead Author'**.
- 115R. Cassey, P, S. Delean, J.L. Lockwood, *J. Sadowski*, and T.M. Blackburn. In 1<sup>st</sup> Revision. Dissecting the null model for biological invasions: a meta-analysis of the propagule pressure effect. *Ecology Letters*.
- 114R. Burg, N.A., J.L. Lockwood, P. Cassey, and M.E. Hauber. In Review. Genetic Tracking of Parasitic Invaders: Assessing the Geographic Origin of an Introduced Obligate Brood Parasitic Finch, *Vidua macroura*. *Avian Conservation and Ecology*.
- 113R. Sinclair, J.S., J.L. Lockwood, S.E. Arnott, and S. Hasnain. In Revision. A unified concept of human-mediated dispersal.
- 112R. **Safiq, A.D.**, J.L. Lockwood and **J.A Brown**. In Review. Homogenization of fish assemblages off the coast of Florida. Chapter in *From Biocultural Homogenization to Biocultural Conservation* (R. Rozzi et al. Eds.). Springer.
111. Ricciardi, A, T.M. Blackburn, J.T. Carlton, J.T.A. Dick, P.E. Hulme, J.C. Iacarella, A.M. Liebhold, J.L. Lockwood, H.J. MacIsaac, P. Pysek, D.M. Richardson, G.M. Ruiz, D. Simberloff, W.J. Sutherland, D.A. Wardle, and D.C. Aldridge. In press. Invasion science: looking forward rather than revisiting old ground. *Trends in Ecology and Evolution*.
110. Li, D., J.L. Lockwood, and B. Baiser. In press. Taxonomic and phylogenetic homogenization across US national parks: the role of non-native species. Chapter in *From Biocultural Homogenization to Biocultural Conservation* (R. Rozzi et al. eds.). Springer.
109. Lockwood, J.L. In Press. Exotic birds provide unique insight into species invasions. *Proceedings of the National Academy of Sciences*.

108. **Ornelas, R.C.**, J.L. Lockwood, P. Cassey, and M.E. Hauber. 2017. The establishment threat of the brood parasitic Pin-tailed Whydah (*Vidua macroura*) in North America and the Antilles. *The Condor*. 119: 449-458
107. Cassey, P. P. Garcia-Diaz, J.L. Lockwood, and T.M. Blackburn. In Press. Invasion biology: searching for predictions and prevention, and avoiding lost causes. Chapter 1 in *Invasion Biology: Hypotheses and Evidence* (J.M. Jeschke and T. Heger eds.)
106. Ricciardi, A. T.M. Blackburn, J.T. Carlton, J.T.A. Dick, P.E. Hulme, J.C. Iacarella, J.M. Jeschke, A.M. Liebhold, J.L. Lockwood, H.J. MacIsaac, P. Pysek, D.M. Richardson, G.M. Ruiz, D. Simberloff, W.J. Sutherland, D.A. Wardle, and D.C. Aldridge. In Press. Invasion Science: A Horizon Scan of Emerging Challenges and Opportunities. *Trends in Ecology and Evolution*.
105. **Virzi, T.**, J.L. Lockwood, D. Drake, S.M. Grodsky and T. Pover. In Press. Conservation implications of reproductive success of American Oystercatchers in an urbanized barrier island complex. *Wader Study*.
104. **Robinson, O.J.**, O. Jensen, S. M. Provost, S. Huang, N. Fefferman, A. Kebir, and J.L. Lockwood. 2017. Evaluating the impacts of fishing on sex-changing fish: a game-theoretic approach. *ICES Journal of Marine Science* 74: 652-659. **Editor's Choice**.
103. **Virzi, T.**, J.L. Lockwood, R.G. Lathrop Jr., and D. Drake. 2017. Predicting American oystercatcher breeding distribution in an urbanized coastal ecosystem using maximum entropy modeling. *Waterbirds* 40 Special Issue 1: 104-122.
102. Gilroy, J.J. and J.L. Lockwood. 2016. Simple settlement decisions explain common dispersal patterns in territorial species. *Journal of Animal Ecology*. 85 (5), 1182-1190.
101. Avery, J.A. and J.L. Lockwood. In Press. Introduction history, impact and management of house sparrows in North America. In *Ecology and Management of Terrestrial Vertebrate Invasive Species in the United States* (W.C. Pitt, J.C. Beasley and G.W. Witmer, eds.). Taylor and Francis, NY.
100. Gilroy, J.J., J.A. Avery and J.L. Lockwood. 2017. Seeking international agreement on what it means to be 'native'. *Conservation Letters* 10: 238-247.
99. **Aagaard, K.** and J.L. Lockwood. 2016. Severe and rapid population declines in exotic birds. *Biological Invasions* 18: 1667-1678.

98. **Aagaard, K.**, J.L. Lockwood and E.J. Green. 2016. A Bayesian approach for characterizing uncertainty in declaring a population collapse. *Ecological Modelling* 328: 78-84.
97. **Burkhalter, J.C.**, J.L. Lockwood, B. Maslo, K.H. Fenn, and K. Leu. 2016. The choice of cost surrogate affects the cost-effectiveness of protected area network design within urban landscapes. *Conservation Biology* 30: 403-412.
96. **Valentin, R.**, B. Maslo, J.L. Lockwood, J. Pote and D. Fonseca. 2016. Real-time PCR assay to detect brown marmorated stink bug, *Halyomorpha halys* (Stål), in environmental DNA (eDNA). *Pest Management Science* 72: 1854 –1861.
95. **Burkhalter, J.C.**, N.H. Fefferman, and J.L. Lockwood. 2015. The impact of personality on the success of prospecting behavior in changing landscapes. *Current Zoology* 61: 557- 568.
94. Blackburn, T.M., J.L. Lockwood and P. Cassey. 2015. The influence of numbers on invasion success. *Molecular Ecology* 24: 1942-1953.
93. Maslo, B., J.L. Lockwood, and K. Leu. 2015. Land ownership patterns associated with declining forest birds: targeting the right policy and management for the right species. *Environmental Conservation* 42: 216-226.
92. **Robinson, O.J.**, J.L. Lockwood, O.C. Stringham, and N.H. Fefferman. 2015. A novel tool for making policy recommendations based on PVA: helping theory become practice. *Conservation Letters* 8: 190-193.
91. Lockwood, J.L. and **J.C. Burkhalter**. 2015. The impact of invasive species on wildlife habitat. Pages 102–116, In *Habitats in peril: concepts, challenges and solutions* (M. Morrison, ed.). Island Press.
90. **Avery, J.A.**, P. Cassey, and J.L. Lockwood. 2014. Contemporary divergence of plumage color in an island bird. *Journal of Avian Biology*, 45: 291-295.
89. **Aagaard, K.** and J.L. Lockwood. 2014. Exotic birds show lag phases in population growth. *Diversity and Distributions*, 5: 547-554.
88. Lockwood, J.L. and B. Maslo. 2014. The conservation of coastal biodiversity. Pages 1-12 in *Coastal Conservation* (B. Maslo and J.L. Lockwood, eds.). Cambridge University Press.

87. Lockwood, J.L. and B. Maslo. 2014. A research agenda for coastal biodiversity conservation. Pages 371-379 in *Coastal Conservation* (B. Maslo and J.L. Lockwood, eds.). Cambridge University Press.
86. Lockwood, J.L. and **O.J. Robinson**. 2014. The impacts of invasive species on coastal marine ecosystems. Pages 245-264 in *Coastal Conservation* (B. Maslo and J.L. Lockwood, eds.). Cambridge University Press.
85. **Robinson, O.J.**, N.H. Fefferman, and J.L. Lockwood. 2013. How to effectively manage invasive predators to protect their native prey. *Biological Conservation*, 165: 146-153.
84. Ricciardi A., M.F. Hoopes, M.P. Marchetti and J.L. Lockwood. 2013. Progress towards understanding the ecological impacts of non-native species. *Ecological Monographs*, 88: 263-282.
83. Blackburn, T.M., T.A.A. Prowse, J.L. Lockwood, and P. Cassey. 2013. Propagule pressure as a driver of establishment success in deliberately introduced exotic species: fact or artefact? *Biological Invasions* 15: 1459-1469.
82. **Avery, J.D.**, D.M. Fonseca, P. Campagne and J.L. Lockwood. 2013. Cryptic introductions and the interpretation of island biodiversity. *Molecular Ecology* 22: 2313-2324.
81. Brooks, W.R. J.L. Lockwood, R.C. Jordan. 2013. Tropical paradox: a multi-scale analysis of the invasion paradox within Caribbean hardwood hammocks. *Biological Invasions* 15: 921-930.
80. Baiser, B., J.D. Olden, S. Record, J.L. Lockwood and M.L. McKinney. 2012. Pattern and process of biotic homogenization in the New Pangea. *Proceedings of the Royal Society London, B*. 279: 4772-4777.
79. **Virzi, T., R.L. Boulton**, M.J. Davis, **J.J. Gilroy** and J.L. Lockwood. 2012. Effectiveness of artificial song playback on the settlement decisions of an endangered resident grassland bird. *The Condor*, 114: 846-855.
78. **Gilroy J.J.** and J.L. Lockwood. 2012. Mate-finding as an overlooked critical determinant of dispersal variation in sexually-reproducing animals. *PLoS ONE* 7(5):e38091. doi:10.1371/journal.pone.0038091
77. **Gilroy, J.J., T. Virzi, R.L. Boulton** and J.L. Lockwood. 2012. Too few data and not enough time: approaches to detecting Allee effects in threatened species. *Conservation Letters*. 5: 313-322.

76. **Gilroy, J.J., T. Virzi, R.L. Boulton**, and J.L. Lockwood. 2012. A new approach to the 'apparent survival' problem: estimating true survival rates from capture-recapture studies. *Ecology*. 93: 1509-1516.
75. Kuebbing, S., D. Simberloff and J.L. Lockwood. 2011. Species origins do matter. *The Scientist*. Sept. 28.
74. Blackburn, T.M., T.A.A. Prowse, J.L. Lockwood and P. Cassey. 2011. Passerine introductions to New Zealand show a positive effect of propagule pressure on establishment success. *Biodiversity and Conservation*, 20: 2189-2199.
73. **Mathys, B.**, and J.L. Lockwood. 2011. Contemporary morphological diversification of passerine birds introduced to the Hawaiian Archipelago. *Proceedings of the Royal Society, B*. 278: 2392-2400.
72. Blackburn, T.M., J.L. Lockwood, and P. Cassey. 2011. 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.
71. Lockwood, J.L., M.F. Hoopes, and M.P. Marchetti. 2011. Non-natives: pluses of invasion ecology. *Nature* 475: 36.
70. **Boulton, R.L., B. Baiser**, M.J. Davis, **T. Virzi**, and J.L. Lockwood. 2011. Variation in laying date and clutch size: the Everglades environment and the endangered Cape Sable seaside sparrow. *The Auk* 128: 374-381.
69. Lockwood, J.L., and **T. Virzi**. 2011. Taxonomic patterns. Pages 658-661, In *Encyclopedia of Biological Invasions* (D. Simberloff and M. Rejmanek, eds.) University of California Press, Berkeley, CA.
68. Lockwood, J.L. 2011. A close look at extinction rates. *Biological Conservation*. 144: 665.
67. Olden, J.D., J.L. Lockwood, and C.L. Parr. 2011. Species invasions and the biotic homogenization of faunas and floras. Pages 224-243, In *Conservation Biogeography* (R.J. Whittaker and R. Ladle, eds.) Oxford University Press.
66. **Baiser, B.** and J.L. Lockwood. 2011. The relationship between functional and taxonomic homogenization. *Global Ecology and Biogeography* 20: 134-144.
65. **Baiser, B.**, G.J. Russell, and J.L. Lockwood. 2010. Connectance and species richness determine invasion success via trophic interactions in model food webs. *Oikos* 119: 1970-1976.

64. **Seigal, A.** and J.L. Lockwood. 2010. How increasing levels of private land enrollment in conservation agreements affect the population viability of grassland birds. *Biodiversity and Conservation* 19: 2343-2357.
63. Van Houtan, K.S. O.L. Bass Jr., J.L. Lockwood, and S.L. Pimm. 2010. The importance of dispersal estimation for conserving an endangered passerine. *Conservation Letters* 3: 260-266.
62. **Boulton, R.L.** and J.L. Lockwood. 2010. Response of endangered Cape Sable seaside sparrows to nest exclosures. *Florida Field Naturalist* 38: 8-11.
61. **Mathys, B.** and J.L. Lockwood. 2009. 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* 36: 2204-2211.
60. Maslo, B. and J.L. Lockwood. 2009. Evidence-based decisions on the use of predator exclosures in shorebird conservation. *Biological Conservation* 142: 3213-3218.
59. Blackburn, T.M., P. Cassey and J.L. Lockwood. 2009. The role of species traits in overcoming small initial population sizes within exotic birds. *Global Change Biology* 15: 2852-2860.
58. Lockwood J.L., T.M. Blackburn, and P. Cassey. 2009. 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.
57. Lockwood J.L., T.M. Blackburn, and P. Cassey. 2009. 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.
56. Blackburn, T.M., J.L. Lockwood, and P. Cassey. 2009. Following birds on the pathway to invasion, and beyond. *The Biologist*, 56: 80-85.
55. **Boulton, R.L.**, J.L. Lockwood, M.J. Davis, A. Pedziwilk, K.A. Broadway, J.T. Broadway, D. Okines and S.L. Pimm. 2009. Endangered Cape Sable seaside sparrow survival. *Journal of Wildlife Management* 73(4): 530-537.
54. de Valpine, P., K. Cuddington, M.F. Hoopes, and J.L. Lockwood. 2008. Is the spread rate of invasive species regulated? Using ecological theory to interpret statistical analysis. *Ecology* 89: 2377-2383.



53. **Baiser, B., R.L. Boulton** and J.L. Lockwood. 2008. The influence of water flows on nest success of the endangered Cape Sable seaside sparrow in the Florida Everglades. *Animal Conservation* 11: 190-197.
52. **Baiser, B.**, J.L. Lockwood, **D.A. La Puma**, and M. Aronson. 2008. The perfect storm: two ecosystem engineers interact to degrade deciduous forests of New Jersey. *Biological Invasions* 10: 785-795.
51. Cassey, P., T.M. Blackburn, R.P. Duncan and J.L. Lockwood. 2008. Lessons from non-native bird introductions as a possible information source for managing translocations of avian species. *Wildlife Research* 35: 193-201.
50. Cassey, P., J.L. Lockwood, J.D. Olden and T.M. Blackburn. 2008. The varying role of population abundance in structuring indices of biotic homogenization. *Journal of Biogeography* 35: 884-892.
49. T.M. Blackburn, P. Cassey, and J.L. Lockwood. 2008. The island biogeography of exotic birds. *Global Ecology and Biogeography* 17: 246-251.
48. **Cassey, P.**, J.L. Lockwood, and K.H. Fenn. 2007. Using long-term occupancy information to inform the management of Cape Sable seaside sparrows in the Everglades. *Biological Conservation* 139: 139-149.
47. Vellend, M., L.J. Harmon, J.L. Lockwood, M.M. Mayfield, A.R. Hughes, J.P. Wares, and D.F. Sax. 2007. Effects of exotic species on evolutionary diversification. *Trends in Ecology and Evolution* 22: 441-496.
46. **La Puma, D.A.**, J.L. Lockwood, and M.A. Davis. 2007. 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.
45. Cassey, P., J.L. Lockwood, T.M. Blackburn, and J.D. Olden. 2007. Spatial scale and evolutionary history determine the degree of taxonomic homogenization across island bird assemblages. *Diversity and Distributions*, 13: 458-466
44. Cassey, P., T.M. Blackburn, J.L. Lockwood, D.F. Sax. 2006. A stochastic model for integrating changes in species richness and community similarity across spatial scales. *Oikos* 115: 207-218.
43. Lockwood, J.L. 2006. Life in a double-hotspot: the transformation of Hawaiian bird diversity following invasion and extinction. *Biological Invasions* 8: 449-457.

42. Marchetti, M.P., J.L. Lockwood and T. Light. 2006. Urbanization promotes invasion and extinction but not homogenization among California freshwater fishes. *Biological Conservation*, 127: 310-318.
41. Lockwood, J.L. 2005. 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.
40. Lockwood, J.L. 2005. 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.
39. McKinney, M.L. and J.L. Lockwood. 2005. 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.
38. **Pejchar, L**, K. Holl and J. Lockwood. 2005. Hawaiian honeycreeper home range size varies with habitat: implications for native *Acacia koa* forestry. *Ecological Applications* 15(3): 1053-1061.
37. Lockwood, J.L. P. Cassey, and T.M. Blackburn. 2005. The role of propagule pressure in explaining species invasion. *Trends in Ecology and Evolution* 20(5): 223-228.
36. Cassey, P., T.M. Blackburn, R.P. Duncan, and J.L. Lockwood. 2005. Lessons from the establishment of exotic species: a meta-analytical case study using birds. *Journal of Animal Ecology* 74(2): 250-258.
34. Lockwood, J.L. 2004. 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.
33. Lockwood, J.L. and *J.J. Gilroy*. 2004. The portability of foodweb dynamics: reassembling an Australian eucalypt-psyllid-bird association within California. *Global Ecology and Biogeography* 13:445-450.
32. Cassey, P., T.M. Blackburn, R.P. Duncan, D. Sol and J. Lockwood. 2004. Global patterns of introduction effort and establishment success in birds. *Proceedings of the Royal Society, B* 271:S405-S408.
31. Cassey, P., T.M. Blackburn, G. Russell, K. Jones, and J.L. Lockwood. 2004. Influences on the transport and establishment of exotic bird species:

an analysis of the parrots (Psittaciformes) of the world. *Global Change Biology* 10:427-426.

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29. Lockwood, J.L. and C.L. Samuels. 2004. 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. Nuttle. Island Press, Washington DC.
28. Lockwood, J.L. M. Ross, and J. Sah. 2003. Smoke on the water: the influence of fire and hydrology on Everglades restoration. *Frontiers in Ecology and the Environment* 9(1): 462-468.
27. Samuels, C.L. and J.L. Lockwood. 2003. Weeding out surprises: incorporating uncertainty into restoration models. *Ecological Restoration*, 20(4): 262-269.
26. Lockwood, J.L., G.J. Russell, J.L. Gittleman, C. Daehler, M.L. McKinney and A. Purvis. 2002. A metric for analyzing taxonomic patterns of extinction risk. *Conservation Biology*, 16(4): 1137-1142.
25. Lockwood, J.L., K.H. Fenn, J.M. Caudill, D. Okines, J.R. Duncan, O.L. Bass, Jr., and S.L. Pimm. 2001. The implications of Cape Sable seaside sparrow demography for Everglades restoration. *Animal Conservation* 4: 275-281.
24. Duncan, J. R. and J.L. Lockwood. 2001. Extinction in a field of bullets: a search for causes in the decline of freshwater fishes. *Biological Conservation* 102: 97-105.
23. Lockwood, J.L., D. Simberloff, M. McKinney, and B. Von Holle. 2001. How many, and which, plants will invade natural areas. *Biological Invasions* 3: 1-8.
22. Duncan, J.R. and J.L. Lockwood. 2001. 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.
21. McKinney, M.L. and J.L. Lockwood. 2001. 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.

20. Lockwood, J.L. and K.H. Fenn. 2000. The recovery of the Cape Sable seaside sparrow through restoration of the Everglades ecosystem. *Endangered Species UPDATE* 17(1): 10-14.
19. Lockwood, J.L., T.M. Brooks, and M.L. McKinney. 2000. Taxonomic homogenization of the global avifauna. *Animal Conservation* 3:27-35.
18. McKinney, M. L. and Lockwood, J.L. 1999. Biotic homogenization: a few winners replacing many losers in the next mass extinction. *Trends in Ecology and Evolution* 14(11): 450-453.
17. Lockwood, J.L. 1999. Using taxonomy to predict success among introduced avifauna: relative importance of transport and establishment. *Conservation Biology* 13(3): 560-567.
16. Lockwood, J.L., M.P. Moulton and K. Balent. 1999. 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.
15. Lockwood, J.L. and S.L. Pimm. 1999. 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.
14. Lockwood, J.L. R.D. Powell, M.P. Nott, and S.L. Pimm. 1997. Assembling ecological communities in time and space. *Oikos* 80:549-553.
13. Lockwood, J.L., M.P. Moulton and R.K. Brooke. 1997. Morphological dispersion of the introduced land-birds of Saint Helena. *Ostrich* 67:111-117.
12. Lockwood, J.L., K.H. Fenn, J.L. Curnutt, D. Rosenthal, K.L. Balent, and A.L. Mayer. 1997. Life history of the endangered Cape Sable Seaside Sparrow. *Wilson Bulletin* 109(4): 720-731.
11. Lockwood, J.L. An alternative to succession: Assembly rules offer guide to restoration efforts. 1997. *Restoration and Management Notes* 15(1): 45-50.
10. McKinney, M.L., J.L. Lockwood, and D. R. Frederick. 1996. 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 Paleoecology* 127(1–4): 191–208.

9. Brooke, R.K., J.L. Lockwood, and M.P. Moulton. 1995. Patterns of success in passeriform bird introductions on Saint Helena. *Oecologia* 103(3): 337–342.
8. Lockwood, J.L. and S.L. Pimm. 1994. Species: would any of them be missed? *Current Biology* 4(5): 455–457.
7. Lockwood, J.L. and M.P. Moulton. 1994. Ecomorphological pattern in Bermuda birds: the influence of competition and implications for nature preserves. *Evolutionary Ecology* 8: 53–60.
6. Lockwood, J.L., J.E. Greene, K. Wakelee, E. VanGelder, S. Ashe, and R. Aburomia. 1994. A description of Maui Parrotbill (*Pseudonester xanthophrys*) nests and nesting behavior. *Elepaio* 54(10): 6164.
5. Curnutt, J., J.L. Lockwood, H. Luh, P. Nott, and G. Russell. 1994. Hotspots and species diversity. *Nature* 367: 326–327.
4. Lockwood, J.L., M.P. Moulton, and S.K. Anderson. 1993. Morphological assortment and the assembly of communities of introduced Passeriformes on oceanic islands: Tahiti vs. Oahu. *The American Naturalist* 141(3): 398–408.
2. Scott, M.A., J. L. Lockwood, and M.P. Moulton. 1993. Effects of microhabitat on nest box selection and annual productivity of Eastern Bluebirds (*Sialia sialis*) in southeastern Georgia. *Texas Journal of Science* 45(1): 77–85.
1. Moulton, M.P. and J.L. Lockwood. 1992. Morphological dispersion of introduced Hawaiian finches: evidence for competition and a Narcissus effect. *Evolutionary Ecology* 6: 45–55.

## Grants

PI = Principle Investigator

co-PI = co-principal investigator

\$92,285      USDA, NIFA ERI Pre-Doctoral Fellowship Grant, Pending, Integrating Models of Farmer Behavior and Ecological Processes to Optimize Conservation Incentives in Agricultural Landscapes (Michael Allen) – PI

- \$199,885 USDA, Pending, Management strategy evaluation as a tool for assessing the effectiveness of alternative IPM strategies, with application to control of brown marmorated stink bugs in Mid-Atlantic orchards – co-PI, with John Wiedenmann (PI) and Anne Nielson (co-PI).
- TBD National Socio-Environmental Synthesis Center, 2016–2018 Pursuit, 2016-2018, Linking trade, biology and pet owner decisions to the risk of vertebrate invasions in the US – PI, with C. Romagosa (also PI).
- \$299,925 USDA-AFRS, 2016-2021, An area-wide biointensive management plan for brown marmorated stink bug (BMSB), *Halymorpha halys* (Stal), to reduce the impacts throughout the agro-urban interface – co-PI with Anne Nielson (PI).
- \$94,976 USDA, NIFA ERI Pre-Doctoral Fellowship Grant, 2016–2018, New High-Resolution eDNA Based Surveillance Strategies For Detection Of Exotic Agricultural Insect Pests (Rafael Valentin) – co-PI with Dina Fonseca (PI).
- \$130,000 New Jersey Sea Grant, 2016-2018, Identifying the impacts of commercial oyster aquaculture on foraging behavior of red knots in Delaware Bay – co-PI with Brooke Maslo (PI).
- \$15,000 USDA, Northeast Sustainable Agriculture Research and Education Grant, 2015–2017, Development of a high-resolution surveillance protocol using eDNA for detection of brown marmorated stink bugs – PI with Dina Fonseca (co-PI) and Rafael Valentin (co-PI).
- \$22,000 National Fish and Wildlife Foundation, 2015-2016, Identifying the impacts of commercial oyster aquaculture on foraging efficiency of red knots in Delaware Bay – co-PI with Brooke Maslo (PI).
- \$40,000 New Jersey Department of Environmental Protection, 2015-2016, Effects of oyster aquaculture on foraging shorebirds on Delaware Bay – co-PI with Brooke Maslo (PI).
- \$100,000 McIntire-Stennis USDA-NIFA, 2014-2018, Does setting aside forest in open space protection ensure persistence of native birds? – PI
- \$220,000 Australian Research Council, 2013-2016, The role of behavioural interactions in shaping invasion dynamics: A global synthesis using the common myna as a model system – co-PI with Salit Kark (PI), University of Queensland.

\$726,513 Graduate Assistantships in Areas of National Need (GAANN), U.S. Department of Education, 2013 – 2017, Ecology and Evolution in Urban Environments – PI with Henry John-Alder (also PI).

\$2,500 AGER National Science Foundation, 2012, Seeing is believing: transitioning incoming graduate students into an academic setting through trips to research field stations – PI.

\$32,000 Critical Ecosystems Science Initiative, 2011, National Park Service, Cape Sable seaside sparrow synthesis – PI.

\$59,500 McIntire-Stennis USDA-NIFA, 2011-2014. Managing New Jersey forests for the benefit of shrub-dependent birds – PI.

\$8,500 National Geographic Society, 2010-2011, Parasites and the invasion success of hosts – co-PI with M. Hauber (PI).

\$230,000 Critical Ecosystems Science Initiative, National Park Service, 2010, Recovering small Cape Sable seaside sparrow subpopulations: the breeding and dispersal of sparrows in the eastern Everglades – PI.

\$230,000 Critical Ecosystems Science Initiative, National Park Service, 2009. Recovering small Cape Sable seaside sparrow subpopulations: the breeding and dispersal of sparrows in the eastern Everglades – PI.

\$75,000 US Fish and Wildlife Service, 2009, Conspecific attraction and the recovery of the Cape Sable seaside sparrow (*Ammodramus maritimus mirabilis*) – PI with R. Boulton also PI.

\$185,000 Critical Ecosystems Science Initiative, National Park Service, 2008, Recovering small Cape Sable seaside sparrow subpopulations: the breeding and dispersal of sparrows in the eastern Everglades – PI.

\$37,184 US Fish and Wildlife Service, 2008. Developing an emergency management action plan for the endangered Cape Sable seaside sparrow (*Ammodramus maritimus mirabilis*) – PI with G. Slater, R. Boulton (PI), and S.L. Pimm (PI).

\$140,000 National Fish and Wildlife Foundation, 2008, Conservation of American oystercatchers in New Jersey – PI.

\$1,940 Rutgers University Research Council, 2008, Conservation genetics of eastern bluebirds in Bermuda – PI.

\$152,000 Critical Ecosystems Science Initiative, National Park Service, 2007, Recovering small Cape Sable seaside sparrow subpopulations: the breeding and dispersal of sparrows in the eastern Everglades – PI.

\$2,000 Bermuda Audubon Society, 2007, Conservation Status of Eastern Bluebirds in Bermuda – PI.

\$14,000 National Geographic Society, 2007-2009, Do non-native species show macro-evolutionary patterns? Non-native passerines and the Island Rule – PI.

\$45,172 Critical Ecosystems Science Initiative, National Park Service, 2006, Recovering small Cape Sable seaside sparrow subpopulations: the breeding and dispersal of sparrows in the eastern Everglades – PI.

\$10,000 Duke Farms Foundation, 2006, Conservation of threatened grassland birds within Duke Farms; Phase Two – PI.

\$5,450 Duke Farms Foundation, 2005, Conservation of threatened grassland birds within Duke Farms; Phase One – PI.

\$146,000 Critical Ecosystems Science Initiative, National Park Service, 2005, Fire effects on Cape Sable seaside sparrows – PI.

\$99,000 Critical Ecosystems Science Initiative, National Park Service, 2004, Fire effects on Cape Sable seaside sparrows – PI.

\$270,000 US Fish and Wildlife Service, 2004, Detailed study of nest success and causes of nest failure for the Cape Sable seaside sparrow – PI.

\$100,000 Leverhulme Trust, United Kingdom, 2003, Understanding biological invasions using avian model systems – co-PI with T. Blackburn (PI) and D. Sol (co-PI).

\$92,000 Critical Ecosystems Science Initiative, National Park Service, 2003, Fire effects on Cape Sable seaside sparrow demography – PI.

\$30,000 Critical Ecosystems Science Initiative, National Park Service, 2002, The effects of fire and hydrology on the Cape Sable seaside sparrow – PI.

\$75,000 Critical Ecosystems Science Initiative, National Park Service, 2002, Fire effects on Cape Sable seaside sparrow demography – PI.



- \$50,000 Critical Ecosystems Science Initiative, National Park Service, 2001, Effects of fire and hydrology on spatial variability in demographic parameters of the Cape Sable seaside sparrow – PI.
- \$6,000 Divisional Research Award, Univ. of California, Division of Social Science 2001, Research on the communication gap between practitioners and academics when building nature reserve networks – PI.
- \$6,000 Faculty Research Award, Univ. of California, Division of Social Science. 2000. The effects of introduced birds on native Hawaiian Honeycreepers – PI.
- \$60,000 Critical Ecosystems Science Initiative, National Park Service, 2000, The relationship between fire and breeding success in the Cape Sable seaside sparrow – PI.
- \$6,000 Committee on Research Fellowship, Univ. of California, Division of Social Science. 1999. The insularity effects among birds introduced to oceanic islands – PI.
- \$20,000 Critical Ecosystems Science Initiative, National Park Service, 1998, Demographic study on the Cape Sable seaside sparrow – PI.
- \$12,000 Alexander Hollander Fellowship, 1996, Univ. of Tennessee, Division of Biology.

## Professional Presentations

### *Keynote*

- 2015 Halifax, Nova Scotia – Supply side invasion ecology. Keynote Address, Canadian Aquatic Invasive Species Network Annual Meeting.
- 2013 Macon, Georgia – The population biology of exotic species: where's the management message? Keynote Address, Georgia Exotic Pest Plant Council.
- 2011 Annapolis, Maryland – How important is propagule pressure in invasion ecology, Keynote Address, USDA Forum on Invasive Species.

### *Invited*

- 2016 Gainesville, FL – Can we conserve biodiversity in an increasingly urbanized world?, Wildlife Ecology and Conservation seminar series, University of Florida.
- 2016 New Brunswick, NJ – More people, more plants: non-native plants in the urban environment, Crossroads in the Concrete Jungle: Experiences and Explorations of Urban Plants and People, Rutgers University.
- 2015 Philadelphia, Pennsylvania – Evolution of non-native island birds. Invited, Department of Biology, Temple University.
- 2015 Queens, New York – Achieving conservation goals in an urbanizing landscape. Invited, Department of Biology Seminar Series, Queens College, City University of New York.
- 2015 St. Paul, Minnesota – Killing the cuddly? Approaches to managing exotic predators to protect their native prey. Invited, College of Biological Sciences Seminar Series, University of Minnesota.
- 2015 Bryn Mawr, Pennsylvania – The role of the legal and illegal wildlife trade in biodiversity conservation. Invited, Department of Biology Seminar Series, Bryn Mawr College.
- 2013 Lexington, Kentucky – The population biology of exotic species. Invited, Natural Resources Seminar, University of Kentucky.
- 2013 Montclair, New Jersey – Contemporary evolution of island birds. Invited, Environmental Sustainability Seminar, Montclair State University.
- 2013 State College, Pennsylvania – Contemporary evolution of island birds. Invited, Coping with Global Environmental Change Series, Penn State University.
- 2012 Somerset, New Jersey – Land stewardship for the conservation of grassland birds, Invited, Emerging Issues in Land Management, Duke Farms Foundation.
- 2011 Statesboro, Georgia – Improbable foundations: the evolution of exotic birds on islands. Biology Alumna of the Year Seminar, Department of Biology, Georgia Southern University.
- 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.
- 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.
- 2007 Miami, Florida – Status of the Cape Sable seaside sparrow: a view from the front lines, Invited Seminar, National Research Council, Everglades Restoration.
- 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.
- 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
- 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.
- 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.
- 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.
- 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.

- 2000 Naples, Florida – The role of fire in sustaining populations of Cape Sable seaside sparrows within the southern Everglades. Greater Everglades Ecosystem Restoration Conference.
- 1999 Missoula, Montana – Biotic homogenization. Society for Conservation Biology.
- 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
- 1997 Baltimore, MD. – Using taxonomy to predict the success of introduced avifauna: the relative importance of transport vs. establishment. Ecological Society of America annual meeting.
- 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.
- 1995 Knoxville, TN - Assembling communities *in silico* , and in Kansas. Department of Ecology and Evolutionary Biology Seminar Series, University of Tennessee.
- 1995 Snowbird, Utah - Invasibility, diversity and equilibrium: assembly models without local stability assumptions. Invited Symposium Participant, Assembly Rules, Ecological Society of America.
- 1994 Knoxville, TN. Assembling agro-economically important communities. Evolutionary and Behavioral Ecology Seminar Group, University of Tennessee.
- 1991 Statesboro, GA. The role of competition in structuring some introduced passeriform communities on oceanic islands. Department of Biology Seminar Series, Georgia Southern University.

## Technical Publications

26. Virzi, T. and J.L. Lockwood. 2011. Final Report. Increasing breeding success of American oystercatchers along the New Jersey shore. National Fish and Wildlife Foundation.
25. Lockwood, J.L., Virzi, T., R.L. Boulton, J. Gilroy, M.J. Davis, B. Baiser and K.H. Fenn. 2010. Recovering small Cape Sable seaside sparrow

populations: breeding and dispersal of sparrows in the East Everglades, 2010 Annual Report. USFWS, Vero Beach, FL and Everglades National Park, Homestead, FL.

24. Virzi, T., J.L. Lockwood, R.L. Boulton and M.J. Davis. 2009. 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.
23. Slater, G.L., R.L. Boulton, C.N. Jenkins, J.L. Lockwood and S.L. Pimm. 2009. Emergency management action plan for the endangered Cape Sable seaside sparrow (*Ammodramus maritimus mirabilis*). USFWS, Vero Beach, FL.
22. Boulton, R.L., J.L. Lockwood, and M.J. Davis. 2009. 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.
21. Lockwood, J.L. and J.D. Avery. 2009. Hutcheson Memorial Forest 2008 Annual Report. Rutgers University, New Brunswick, NJ
20. Boulton, R.L., M.J. Davis, and J.L. Lockwood. 2008. Collection of demographic and spatial data on Cape Sable seaside sparrows: West Camp Fire 22 June 2008. Modification report, Everglades National Park, Homestead, FL.
19. Lockwood, J.L., R.L. Boulton, B. Baiser, M.J. Davis and D.A. La Puma. 2007. 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.
18. Lockwood, J.L., D. A. La Puma, P. Cassey, M.J. Davis and K.H. Fenn. 2007. Fire effects on the Cape Sable seaside sparrow: final report. Everglades National Park, Homestead, FL
17. Lockwood, J.L., D. La Puma, P. Cassey, M. Davis and K.H. Fenn. 2006. Fire effects on the Cape Sable seaside sparrow: 2006 annual report. Everglades National Park, Homestead, FL.
16. Lockwood, J.L., B. Baiser, R. Boulton and M. Davis. 2006. 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.

15. Seigel, A. and J.L. Lockwood. 2006. Conservation of threatened birds on agricultural grasslands at Duke Farms. Phase one results. Duke Farms Foundation, Hillsborough, NJ.
14. Lockwood, J.L. 2005. 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.
13. Lockwood, J.L. and D. La Puma. 2004. Fire effects on Cape Sable seaside sparrow demography: 2004 final report. US Fish and Wildlife Service, Vero Beach, Florida.
12. Lockwood, J.L. 2004. Fire effects on Cape Sable seaside sparrow demography: 2003 final report. US National Park Service, Everglades National Park, Homestead, FL.
11. Lockwood, J.L. 2004. Fire effects on Cape Sable seaside sparrow demography: 2003 final report. US Fish and Wildlife Service, Vero Beach, Florida.
10. Lockwood, J.L. 2002. Fire effects on Cape Sable seaside sparrow demography: 2002 final report. National Park Service, Everglades National Park, Homestead, Florida.
9. Pimm, S.L., J.L. Lockwood, C. Jenkins, J.L. Curnutt, M.P. Nott, R. Powell, and O.L. Bass Jr. 2002. 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
8. Lockwood, J.L. 2000. Demography and breeding behavior of the Cape Sable seaside sparrow. 2000 Annual Report, submitted to the National Park Service, Everglades National Park, Homestead, Florida.
7. Pimm, S.L. and J.L. Lockwood. 2000. 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.
6. Duncan, J.R. and J.L. Lockwood. 2000. 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.

5. Lockwood, J.L. 1999. Summary of research on exotic birds present within Hakalau Forest National Wildlife Refuge. Report prepared for U.S. Fish and Wildlife Service, Hilo, Hawaii.
4. Pimm, S.L., Bass, O.L., Curnutt, J., Fenn, T., Jenkins, C., Lockwood, J.L., Mayer, A., Nott, P., and Powell, R. 1998. 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.
3. Lockwood, J.L. 1998. Chapter 6. In: Population ecology of the Cape Sable seaside sparrow (*Ammodramus maritimus mirabilis*). Annual report, 1998. NPS, Everglades National Park, Homestead, Florida.
2. 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. 1997. Population ecology of the Cape Sable Sparrow (*Ammodramus maritimus mirabilis*): Annual Report, 1997. NBS/NPS, Everglades National Park, Homestead, Florida.
1. Pimm, S.L., T. Brooks, J.L. Curnutt, J.L. Lockwood, L. Manne, A. Mayer, M. Nott, and G. Russell. 1995. Population ecology of the Cape Sable Sparrow (*Ammodramus maritimus mirabilis*): Annual Report, 1995. NBS/NPS, Everglades National Park, Homestead, Florida.

### Invited Book Reviews and Forewords

6. Lockwood, J.L. 2016. Providing the voice of experience for managing invasive species. Review of *Invasive Alien Species in Seychelles* by Gérard Rocamora and Elvina Henriette. *Biological Invasions*.
5. Lockwood, J.L. 2012. Foreword for *Global Issues: Biodiversity* by Natalie Goldstein, *Facts on File Series*, Checkmark Inc. NY.
4. Lockwood, J.L. 2010. Book review of *Invasive Species Management* by M.N. Clout and P.A. Williams. *Progress in Physical Geography*.
3. Lockwood, J.L. 2010. Book review of *Invasion Biology* by Mark A. Davis. *Biological Invasions*, 12: 971-972.
2. Lockwood, J.L. 2007. Learning to converse at the big table. Book review of *Key Topics in Conservation Biology*. *Ecology* 88(3): 804-805.



1. Lockwood, J.L. 2006. Stranger in a strange land: Book review of *Out of Eden: An Odyssey of Ecological Invasion*. *Issues in Science and Technology* 22:85-88.

## Courses Taught

### *Formal Courses*

- 2005 – pres. TOPICS IN ECOLOGY, EVOLUTION AND NATURAL RESOURCES (undergraduate required) – Rutgers University
- 2009 – pres. VERTEBRATE ZOOLOGY (undergraduate) – Rutgers University.
- 2012 – pres. ETHICS AND DEVELOPMENT IN ECOLOGY AND EVOLUTION (graduate required) – Rutgers University.
- 2016 SPECIAL TOPICS IN ECOLOGY: AGENT-BASED MODELS (graduate) – Rutgers University
- 2015 SPECIAL TOPICS IN ECOLOGY: META-ANALYSIS (graduate) – Rutgers University.
- 2005, 2014 ECOLOGICAL ECONOMICS (graduate) – Rutgers University.
- 2013 – 2014 THE SECRET LIFE OF BIRDS (Byrne-Aresty Freshman Seminar Series) – Rutgers University.
- 2008 – 2014 SEMINAR IN ECOLOGY (graduate required) – Rutgers University
- 2003 – 2013 PRINCIPLES OF ECOLOGY (undergraduate), co-taught with D. Ehrenfeld – Rutgers University
- 2007 – 2011 ECOLOGY OF THE JERSEY SHORE (Byrne Freshman Seminar Series) – Rutgers University
- 2010 SPECIAL TOPICS IN ECOLOGY: CLASSIFICATION AND REGRESSION TREES (graduate) – Rutgers University.
- 2009 SPECIAL TOPICS IN ECOLOGY: INFORMATION THEORETIC STATISTICS (graduate) – Rutgers University.
- 2008 SPECIAL TOPICS IN ECOLOGY: DISTANCE SAMPLING (graduate) – Rutgers University.

- 2004–2008 FIELD TECHNIQUES IN ECOLOGY AND NATURAL RESOURCES (undergraduate), co-taught with E.J. Green – Rutgers University.
- 2004–2007 WILDLIFE ECOLOGY AND CONSERVATION (undergraduate) – Rutgers University.
- 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.
- 2002 ANIMAL ECOLOGY AND CONSERVATION (undergraduate upper-division) – Univ. of California.
- 2001 – 2003 CONSERVATION BIOLOGY (undergraduate required) – Univ. of California.
- 2001 – 2003 GRADUATE RESEARCH SEMINAR (graduate required), co-taught with D. Kelso – Univ. of California
- 2001 ADVANCED READINGS IN ENVIRONMENTAL STUDIES: ON THE ORIGIN OF SPECIES (graduate seminar) – Univ. of California
- 2000 – 2003 CONSERVATION BIOLOGY (graduate required) – Univ. of California.
- 2000 TOPICS IN RESEARCH IN ENVIRONMENTAL STUDIES: CONSERVATION POLICY (graduate semina), co-taught with D. Press – Univ. of California
- 2000 – 2003 ADVANCED AVIAN RESEARCH: FIELD TECHNIQUES AND ANALYTICAL TOOLS (senior exit course) – Univ. of California.
- 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 – Univ. of California.
- 1997 TAXONOMY AND CONSERVATION (graduate seminar), co-taught with M. McKinney – Univ. of Tennessee.

### *Other teaching*

- 2015 Michael A. Ciappi, George H. Cook Thesis, “Risk index and mapping of the monk parakeet throughout North America”.

- 2014 Oliver Stringham, George H. Cook Thesis, "Managing foxes to conserve piper plovers along New Jersey coastlines".
- 2013 Joshua Epstein, George H. Cook Thesis, "Comparing methods to quantify sperm storage in female blue crab *Callinectes sapidus* spermathecae".
- 2012 Jason Sadowski, George H. Cook Thesis, "A systematic review of the influence of propagule pressure on exotic species establishment success".
- 2005 Ryan Sklar, George H. Cook Thesis, "Bias in estimating the population sizes of grassland birds".
- 2004 Lindsey Buis-Kelley, Senior Thesis, "Interactions between small rodent populations and impacted tropical rainforests in Costa Rica", Univ. of California, Santa Cruz.
- 2002 Travis Eaton, Senior Thesis, "Molokai; a classification of the Coastal Zone using ArcView 3.0", Univ. of California, Santa Cruz.
- 2001 Loni Beyer, Senior Internship, "The Western Burrowing Owl: Status and distribution on the University of California Campus, Santa Cruz, California", Univ. of California, Santa Cruz.
- 2001 Rama Heinrich, Senior Thesis, "Life History of the Bushtit: Species account and project proposal", Univ. of California, Santa Cruz.
- 2001 James Gilroy, Education Abroad Program project (Univ. of East Anglia, Norwich, UK), "Lerp psyllids and bird communities in California: Food web implications of a highly specialized invasive species in a disturbed environment", Univ. of California, Santa Cruz.
- 1999 Michelle Korpos, Senior Thesis, "Identifying movement corridors for mountain lions on the central California coast", Univ. of California, Santa Cruz.

## Current and Former Students and Post-docs

### *Current Students*

Rafael Valentin	Ph.D. candidate. Detecting and sourcing non-native species invasions (co-advised with Prof. Dina Fonseca)
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Jeff Brown	Ph.D. candidate. Measuring the effectiveness of urban protected areas in biodiversity conservation
Alexandra Safiq	Ph.D. candidate. Ecosystem-based fisheries management (co-advised with Dr. John Wiedenmann)
Oliver Stringham	Ph.D. candidate. Economic and biological factors that influence establishment probability of exotic pets as invasive species
Rob Crystal-Ornelas	Ph.D. candidate. Measuring impacts of invasive species over long time periods
Michael Allen	Ph.D. candidate. Integrating agriculture into conservation: how farmer decisions influence grassland bird persistence (co-advised with Prof. Joanna Burger)

### *Former Students*

Dr. J. Curtis Burkhalter	2014, <i>Decision-making in ecology and its application to animal conservation</i> . Research Scientist, National Audubon Society.
Dr. Kevin Aagaard	2014, <i>The population dynamics of lags and collapses</i> . Spatial Ecologist, Colorado Parks and Wildlife, Fort Collins, CO.
Dr. Orin Robinson	2014, <i>Simple modeling solutions for complex conservation problems</i> . Post-doctoral Research Associate, Cornell Lab of Ornithology, NY.
Dr. Julian Avery	2012, <i>Cryptic introductions and plumage coloration on islands: implications for the study of evolutionary divergence</i> . Senior Lecturer, Ecosystem Science and Management, Penn State University, PA.
Dr. Blake Mathys	2009, <i>Morphological evolution of birds recently introduced to islands: patterns of diversification</i> . Assistant Professor, Environmental Science, Ohio Dominican College, OH.
Dr. David La Puma	2009, <i>Come hell or high water: conservation of the federally endangered Cape Sable seaside sparrow (<i>Ammodramus maritimus mirabilis</i>) in the dynamic</i>

*Everglades*. Director, Cape May Bird Observatory, NJ.

Dr. Alison (Siegal) Nurok 2009, *Maximizing the effectiveness of grassland management for a grasshopper sparrow (Ammodramus savannarum) metapopulation*. Associate in Biology Instruction, Middlebury College, VT.

Dr. Ben Baiser 2009, *Biodiversity in a rapidly changing world: from local interactions to large-scale patterns*. Assistant Professor, Department of Wildlife and Conservation, University of Florida, FL.

Dr. Tom Virzi 2008, Ph.D. *Effects of urbanization on the distribution and reproductive performance of the American Oystercatcher (Haematopus palliates palliates) in coastal New Jersey*. Research Ecologist, EcoStudies Institute, Portland, OR.

Dr. Liba Pejchar Goldstein 2004, *Ecology of an endangered Hawaiian Honeycreeper and implications for conservation on private land*. Associate Professor, Department of Fish, Wildlife and Conservation Biology, Colorado State University, CO.

William Lynch, Jr. 2009, *Avian communities and their status in North American wetlands*. Assistant Director of Education Programs & Communications, New Jersey Conservation Foundation, NJ.

Thom Almendinger 2007, *Overabundant white-tailed deer and the alteration of forested communities*. Director of Stewardship, Duke Farms, NJ.

Robert Somes 2006, *The future of fire management in the New Jersey pine barrens*. Senior Zoologist, Endangered and Nongame Species Program, NJ.

### *Post-Docs*

Dr. James Gilroy 2010–2011, Lecturer in Ecology, School of Environmental Science, University of East Anglia, UK

Dr. Tom Virzi 2008–2011, Research Ecologist, EcoStudies Institute, Oregon, US.

Dr. Rebecca Boulton 2005-2009, Founder *RLB Ecology*, Adelaide, AUS

Dr. Phillip Cassey 2003-2004, Associate Professor, School of Biological Sciences, University of Adelaide, AUS

### **University Service**

2016-2017 Chair, Search Committee for Theoretical Ecologist, School of Environmental and Biological Sciences, Rutgers University.

2009 – pres. Member, Executive Council, Department of Ecology, Evolution and Natural Resources, Rutgers University.

2016 Chair, Promotion Evaluation Committee, Department of Ecology, Evolution and Natural Resources, Rutgers University.

2015 Member, Search Committee, Chair of Landscape Architecture, Rutgers University.

2015 Member, Search Committee, Extension Specialist in Weed Science, Rutgers University.

2015 Member, Search Committee, Johnson Chair in Watershed Ecology, Rutgers University.

2015 – 2016 Member, Selection Committee, Dissertation Teaching Awards, Graduate School – New Brunswick, Rutgers University.

2014 – 2015 Member, Graduate Program Committee, Institute of Earth, Atmospheric and Oceanic Sciences, Rutgers University.

2012 – 2016 Member, Appointments and Promotion Committee, School of Environmental and Biological Sciences, Rutgers University.

2013 Member, Strategic Planning Committee, Graduate School – New Brunswick, Rutgers University.

2004 – 2013 Member, Undergraduate Curriculum Committee – Major in Ecology, Evolution and Natural Resources, Rutgers University

2011 – 2013 Member, Planning Committee, School of Environmental and Biological Sciences, Rutgers University

- 2009 – 2011 Member, Biological Sciences Advisory Committee, Rutgers Graduate School, New Brunswick.
- 2005 – 2012 Project Leader, Wildlife Conservation – Grant F. Walton Center for Remote Sensing, Rutgers University
- 2009 Member, Review Panel for Graduate Student Excellence Fellowships, School of Environmental and Biological Sciences, Rutgers University.
- 2008 Member, Review Panel for Infrastructure grants, School of Environmental and Biological Sciences, Rutgers University.
- 2007 – 08 Member, Search Committee for Fisheries Oceanographer – Institute for Marine and Coastal Sciences, Rutgers University.
- 2006 *Ad hoc* committee to consider the freshman experience at the School of Environmental and Biological Science, Rutgers University.
- 2005 *Ad hoc* committee member for Cook College Dean, Transforming Undergraduate Education, Rutgers University.
- 2005 Member, Committee on Mentoring Faculty, Cook College, Rutgers University.
- 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 – 2007 Member, Graduate Curriculum Committee – Ecology and Evolution Graduate Program, Rutgers, University.
- 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.

- 2000 Member, Graduate Seminar Committee – Univ. of California, Environmental Studies.
- 2000–2001 Member Long-range planning committee – Univ. of California, Environmental Studies.
- 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.
- 1995 Graduate Student representative for Graduate Student Handbook formulation, Univ. of Tennessee, Dept. of Zoology

## Professional Service

### *Editorial*

2017 – pres. Editorial Board – *Journal of Urban Ecology*

2013 – pres. Assigning Editor – *Conservation Letters*

2015 – pres. Assigning Editor – *Biological Invasions*

2008 – 2015 Co Editor-in-Chief – *Biological Invasions*

2009 – 2014 American Editor (Zoology), *Biological Conservation*

2001 – 2009 Assigning Editor – *Conservation Biology*

2005 – 2007 Associate Editor – *Global Ecology and Biogeography*

2001 – 2005 Editorial Advisory Board – *Global Ecology and Biogeography*

2004 – 2007 Editorial Board – *Animal Conservation*

### *Peer Review*

Ongoing Outside reviewer for proposed books: Oxford University Press, Cambridge University Press, University of Chicago Press.



- Ongoing 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, Ecography, Climate Change, Molecular Ecology, Journal of Avian Biology, Science, Nature, Conservation Letters.*
- Ongoing 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.
- 2016 Outside reviewer for Adam Cardilini (PhD), Deakin University, Australia.
- 2009 – 2011 Review Panel, *Women in Wildlife Award*, Conserve Wildlife Foundation, New Jersey.
- 2011 Outside reviewer for Matthew Grainger (PhD), Faculty of Natural Resources and Agricultural Science, University of Pretoria, South Africa.
- 2011 Technical Review Team Member, Northeast Association of Fish and Wildlife Agencies (NEAFWA), Regional Conservation Need (RCN) program
- 2010 Outside Member for Senior Thesis for Kyle Rosenblad, Brown University.
- 2007 – 2009 National Science Foundation review panel for Dissertation Improvement Grants - Ecology.
- 2005, 2006 Peer Review Committee Member, *Landscape Project*, New Jersey Division of Fish and Wildlife, Non-game and Endangered Species.
- 2007 Outside reviewer for Martin Taylor's (MSc), Faculty of Natural Resource and Agricultural Science, University of Pretoria, South Africa.
- 2004 Outside reviewer for Theo Wassenaar (PhD), Faculty of Natural and Agricultural Sciences, University of Pretoria, South Africa.

2000 Outside reviewer for P. Cassey (PhD), Australian School of Environmental Studies, Griffith University.

### Advisory

2016 Science Advisor, New Jersey Sustainable Report -- State of the State. Sustainable New Jersey, Trenton, NJ

2015 – pres. Member – Science advisory group for red knot conservation. US Fish and Wildlife Service, New Jersey Regional Office.

2014 Reviewer – *Progress Toward Restoring the Everglades: The Fifth Biennial Review*. National Research Council of the National Academies.

2013 – 2014 Science Advisor – *New Jersey Habitat Conservation Planning: A No Net Loss Approach*, Grant F. Walton Center for Remote Sensing and spatial Analysis and Conserve Wildlife Foundation.

2001 – 2011 Advisory Panelist – *Managing fire within Everglades National Park for Cape Sable seaside sparrows*. Everglades National Park, Big Cypress National Preserve, and USFWS

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.

2005 Participant, New Jersey Wildlife Summit, Hamilton, New Jersey.

2005 – 2007 Chair, Nominations Committee, New Jersey Wildlife Society

2004 – 2008 Member, Scientific Advisory Panel, *Important Bird Areas of New Jersey*, New Jersey Audubon Society.

2004, 2005 Participant in National Center for Ecological Analysis and Synthesis workshop on *Exotic species – insights into understanding ecology, evolution and biogeography*.

2003 Symposium Chair *Invasive Species Effects*– 5th Annual Bay Area Conservation Biology Symposium, Berkeley, California.

1999–2002 Participant in National Center for Ecological Analysis and Synthesis workshop on *Phylogeny and Conservation*.

1996 Participant in National Center for Ecological Analysis and Synthesis workshop on *Sampling Curves*.

### *Media*

2012 Interview for *Pesquisa Fapesp* (the major scientific and technical magazine for Brazil) on biotic homogenization of tropical rainforests.

2009 Interview for *BBC Online* on extinction patterns within geological and modern taxa.

2007 Interview for *High Country News* Feature Article “Wish You Weren’t Here” on the invasion of quagga mussels in Lake Mead, Arizona.

2000 Interview for *Miami New Times* on Cape Sable seaside sparrow and Everglades Restoration.

## References

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