

Julie Lockwood

[Research Group Website](#)

[eDNA lab](#)

Professor; Ecology, Evolution, and Natural Resources
Interim Director; Rutgers Climate and Energy Institute
Rutgers University
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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.
2006 – 2012	Associate Professor, Ecology, Evolution and Natural Resources, Rutgers University, New Brunswick, NJ.
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.

Executive and Leadership Experience

2023 – pres	Interim Director , Rutgers Climate and Energy Institute
2023 – pres	Leadership Team – Northeast regional invasive species and climate change management network
2022 – 2023	Chair , Climate Change Task Force, Rutgers University, New Brunswick
2022 – 2023	Interim Director , Institute of Earth, Ocean and Atmospheric Science, Rutgers University
2022 – 2023	Academic Leadership Program Fellow, Big Ten Academic Alliance
2019 – 2022	Chair , Ecology, Evolution and Natural Resources, Rutgers University.

- 2020 – 2022 **Co-Champion** – *Rutgers Earth 2100*, one of 12 ‘Big Ideas’ that drove Rutgers fund-raising, which centered on the nexus between climate change, biodiversity, and data science.
- 2017 **Program Fellow**, Big Ten Academic Alliance Departmental Executive Officers Program.
- 2008 – 2015, 2017 **Director**, Graduate Program in Ecology and Evolution, Rutgers University.
- 2007-2008 **Director**, Hutcheson Memorial Forest, Rutgers University.
- 2006 – 2008 **Director**, Undergraduate Program, Ecology and Natural Resources Major, Rutgers University.

Awards and Academic Honors

National

- 2022 **Elected Fellow**, American Association for the Advancement of Science
- 2020 **Elected Fellow**, Ecological Society of America
- 1987 Academic All American

University

- 2020 **Excellence in Mentoring of Graduate Students:** Biological, Biomedical and Health Sciences, Rutgers School of Graduate Studies Dean's Advisory Council Award.
- 2018 **Research Excellence Award**, School of Environmental and Biological Sciences, Rutgers.
- 2011 **Biology Alumna of the Year**, Georgia Southern University.
- 2004 **Distinguished Graduate Alumna**, Department of Biology, Georgia Southern University.
- 1996 **Science Alliance Graduate Student Award of Excellence**, Univ. of Tennessee, Division of Biology

Translational and Synergistic Activities

International

- Review Editor **United Nations Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services** (IPBES), *Assessment of Invasive Alien Species*.

Panelist	<i>The unregulated exotic pet trade in the EU: a threat to health and biodiversity</i> , invited by the Portuguese Presidency of the Council of the European Union , the Eurogroup for Animals.
Lead Author	<i>Invasive Species Impacts on Biodiversity, Regional Assessment of the Americas</i> . United Nations Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES).
Participant	Invasive Species Global Working Group , Cambridge, UK and Dublin, IRE. 2017, 2018
Participant	Frameworks Used in Invasion Science: Progress and Prospects Centre for Invasion Biology, Stellenbosch University, South Africa. 2020
Participant	Mapping Invasion Biology Hypotheses . Synthesis Centre for Biodiversity Sciences (iDiv). German Centre for Integrative Biodiversity Research, GER. 2019

National

Expert Panelist	<u>Independent Review Panel to review seawater import proposals to restore California's Salton Sea.</u> State of California.
Signatory	Brief of <i>amici curiae</i> scientists in support of respondents, United States Supreme Court , Weyerhaeuser Company v. United States Fish and Wildlife Service et al. No. 17-71. 2018.
Participant	United States Vertebrate Invasive Species Horizon Scan , USGS.
Science Advisor	US Fish and Wildlife Service red knot conservation . 2016 – 2018.
Science Advisor	Progress Toward Restoring the Everglades: The Fifth Biennial Review . US National Research Council of the National Academies.

Regional

Organizer	Climate Change and Biodiversity , Rutgers Climate Institute Symposium.
Leadership	Northeast Regional Invasive Species and Climate Change group (RISCC)
Member	New Jersey Aquatic Invasive Species Management Plan , New Jersey Department of Environmental Protection
Member	Mid-Atlantic Panel on Aquatic Invasive Species , USFWS
Member	Florida Invasive Species Horizon Scan . State of Florida.

Science Advisor	New Jersey Forest Landscape and Agriculture Insect Pest Round Table.
Science Advisor	Managing Fire within Everglades National Park for Cape Sable Seaside Sparrows. Everglades National Park, Big Cypress National Preserve, and USFWS.
Science Advisor	Sustainable New Jersey, State of the State. Sustainable New Jersey. 2014.
Science Advisor	New Jersey Habitat Conservation Planning: A No Net Loss Approach. New Jersey Conserve Wildlife Foundation. 2013
Science Advisor	Important Bird Areas of New Jersey , New Jersey Audubon Society. 2005

Diversity, Equity and Inclusion

2023	Invited Speaker, Queer and Allied Scientists at Rutgers Symposium, Rutgers University.
2020	Women in STEM Panel – Marine and Coastal Sciences, Rutgers University.
2019	Women in Invasion Science Luncheon Round-Table – International Council on Aquatic Invasive Species, Montreal, CAN
2019 – 2021	Diversity, Equity and Inclusion Committee , School of Environmental and Biological Sciences, Rutgers University
2013 – 2017	US Department of Education grant that provided fellowship support for 7+ graduate students from under-represented groups in Ecology and Evolution. Rutgers University.
2009 – 2011	Review Panel, Women in Wildlife Award , Conserve Wildlife Foundation, New Jersey.

Journal Editorships

IF = Impact Factor

2018 – 2022	Senior Associate Editor – <i>Conservation Letters</i> (IF = 7.1)
2013 – 2018	Assigning Editor – <i>Conservation Letters</i> (IF = 7.1)
2017 – 2018	Editorial Board – <i>Journal of Urban Ecology</i> (IF = 2.4)
2013 – 2015	Co Editor-in-Chief – <i>Biological Invasions</i> (IF = 3.1)
2009 – 2014	Senior Associate Editor, <i>Biological Conservation</i> (IF = 7.5)
2001 – 2009	Assigning Editor – <i>Conservation Biology</i> (IF = 7.5)
2005 – 2007	Associate Editor – <i>Global Ecology and Biogeog.</i> (IF = 6.9)
2001 – 2005	Editorial Advisory Board – <i>Global Ecology and Biogeography</i>
2004 – 2007	Editorial Board – <i>Animal Conservation</i> (IF = 2.5)

Books

6. Lockwood, J.L. and D.J. Welbourne. 2023. **Invasive Species. A Very Short Introduction.** Oxford University Press, UK.
5. Marchetti, M.P., J.L. Lockwood and M.F. Hoopes. 2023. **Ecology in a Changing World.** Norton Publishers, NY.
4. Maslo, B. and J.L. Lockwood (eds). 2014. **Coastal Conservation.** Cambridge University Press.
3. Lockwood, J.L., M.F. Hoopes, and M.P. Marchetti. 2013. **Invasion Ecology,** 2nd edition. Wiley-Blackwell Press, UK.
2. 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.
1. Lockwood, J.L. and McKinney, M. (eds). 2001. **Biotic Homogenization.** Kluwer Academic/Plenum Publishers, New York.

Peer-Reviewed Journal Articles

h-index = 51, total citations = 17,211 (Oct. 2023, Google Scholar)

Bold denotes my graduate students, *Italics* denotes an undergraduate student, ***Bold Italics*** denotes a post-doc (all only marked for work conducted while formally a part of my lab group). R = In Review or Revision

In Review Process

- 139R. Roy, H.E. et al. Curbing the major and growing threats from invasive alien species is urgent and achievable. *Nature Ecology and Evolution.*
- 138R. Wright, J, **R. Almeida**, M. Gray, M. Bletz, J.L. Lockwood, S. Masecar, J. Piovio-Scott, A. Warwik, and N. Fefferman. In Review. Trade Network Surveillance Strategies. *Ecosphere.*
- 137R. **Almeida, R.**, A. Mazza, and J.L. Lockwood. In 2nd Review. Does fortune follow function? Exploring how consumer preferences drive the functional trait composition of the global songbird trade. *People and Nature.*
- 136R. **Kyle, K.E.**, M.C. Allen, N.W. Siegert, J. Grabosky, and J.L. Lockwood. Final Prep. Design of an eDNA assay and sampling method for an endophagous arthropod pest species. *Biological Invasions.*
- 135R. Vastano, A, M.C. Allen, C. Penca, O.C. Stringham, M. Dominique, and J.L. Lockwood. Final Prep. Can environmental DNA be used within pest insect agricultural biosecurity? Detecting khapra beetle within stored rice. *Molecular Ecology Resources.*

- 134R. Curley, S.R., **J.R. Ramirez-Garofalo**, M.A. Clamo, L.L. Manne, J.L. Lockwood, and R.R. Veit. In Review. The erosion of seasonality in bird communities. *Ecology*.

Published

133. Allen, M., J.L. Lockwood, R. Kwait, A. Vastano, **D.L. Peterson**, **L. Tkacenko**, J. Angle and B. Jaffe. In Press. Using surface environmental DNA to assess arthropod biodiversity within a forested ecosystem. *Environmental DNA*.
132. Briski E., S.G. Kotronaki, R.N. Cuthbert, A. Bortolus, M.L. Campbell, J.T.A. Dick, P. Fofonoff, B.S. Galil, C.L. Hewitt, J.L. Lockwood, H.J. MacIsaac, A. Ricciardi, D.M. Richardson, G. Ruiz, E. Schwindt, U. Sommer, A. Zhan, and J.T. Carlton. In Press. Does Non-Native Diversity Mirror Earth's Biodiversity? *Global Ecology and Biogeography*.
131. Lieurance, D., S. Canavan, D. Behringer, A.E. Kendig, C. Minter, L.S. Reisinger, C. Romagosa, S.L. Flory, J.L. Lockwood, et al. In Press. Identifying invasive species threats and introduction pathways to improve biosecurity. *Ecosphere*.
130. Pratt, E.N., J.L. Lockwood, E.G. King and E.F. Pienaar. In Press. Identifying inconsistencies in exotic pet regulations that perpetuate trade in risky species. *Conservation Biology*.
129. Lockwood, J.L., D. Lieurance, S.L. Flory, L.M. Meyerson, A. Ricciardi and D. Simberloff. 2023. Moving scholarship on invasion science forward. *Trends In Ecology and Evolution*.
128. **Almeida, R.J.**, J.A. Bonachela, and J.L. Lockwood. 2023. Multiple co-occurring bioeconomic drivers of overexploitation accelerate rare species extinction risk. *Journal of Applied Ecology*. **Editor's Choice**.
126. Allen, M.C., R. Kwait, A. Vastano, **A. Kisurin**, *I. Zoccolo*, B.D. Jaffe, J.C. Angle, B. Maslo, and J.L. Lockwood. 2023. Sampling environmental DNA from trees and soil to detect cryptic arboreal mammals. *Scientific Reports*, 13: 180.
125. **Brown, J.A.**, J.L. Lockwood, M.R. Piana, and C. Beardsley. 2023. Introduction of artificial light at night increases abundance of predators, detritivores, and parasites in arthropod communities. *iScience*.
124. Garcia, A.G., W. Mesquita-Filho, C.A.H. Flechtmann, J.L. Lockwood and J.A. Bonachela. 2022. Alternative stable ecological states observed after a biological invasion. *Scientific Reports* 12: 1-11.
123. Allen, M, J.L. Lockwood, and O.J. Robinson. 2022. Integrating habitat models for threatened species with land ownership information to inform coastal resiliency and conservation planning. *Environmental Conservation*.
122. Boardman, L, J.L. Lockwood, M.J. Angiletta Jr., J.S. Krause, J.A. Lau, M.E. Loik, D. Simberloff, C.J. Thawley and L.A. Meyerson. 2022. The

- future of invasion science needs physiology. *BioScience* 72: 1204-1219.
121. **Kyle, K.E., M.C. Allen**, J. Dragon, J.F. Bunnell, H.K. Reinert, R. Zappalorti, B.D. Jaffe, J.C. Angle, and J.L. Lockwood. 2022. Combining environmental DNA with artificial cover objects greatly improves reptile survey detection. *Conservation Biology*.
 120. **Peterson, D.L., M.C. Allen**, A. Vastano, and J.L. Lockwood. 2022. Evaluation of sample collection and storage protocols for surface eDNA surveys of an invasive terrestrial insect. *Environmental DNA* 4: 1201-1211. <https://doi.org/10.1002/edn3.314>.
 119. **Allen, M.C.**, T. Almendinger, and J.L. Lockwood. 2022. A lidar-based openness index to aid conservation planning for grassland wildlife. *Avian Ecology and Conservation* 17: 16.
 118. **Allen, M.C.**, A.L. Nielsen, **D.L. Peterson**, and J.L. Lockwood. 2021. Terrestrial eDNA survey outperforms conventional approach for detecting invasive pest insect within an agricultural ecosystem. *Environmental DNA* 3: 1102-1112.
 117. **Valentin, R., K. Kyle, M.C. Allen, D. Welbourne**, and J. L. Lockwood. 2021. The state, transport and fate of aboveground terrestrial arthropod eDNA. *Environmental DNA* 3: 1081-1092.
 116. **Crystal-Ornelas, R., J.A. Brown, R.E. Valentin, C. Beardsley**, and J.L. Lockwood. 2021. Meta-analysis shows that overabundant deer (Cervidae) populations consistently decrease average species abundance and richness of forest birds. *The Condor* 123: duab040
 115. Sinclair, J.S., **O.C. Stringham**, B. Udel, N.E. Mandrak, B. Leung, C.M. Romagosa, and J.L. Lockwood. 2021. The international vertebrate pet trade network and insights from US imports of exotic pets. *BioScience*.
 114. **Stringham. O.C.** and J.L. Lockwood. 2021. Setting propagule-pressure limits for invasive species policy standards: the importance of propagule size, number, and the risk-release relationship. *Ecological Applications* 31: e02314
 113. **Allen, M.C.** and J.L. Lockwood. 2021. Mapping shifts in spatial synchrony in North American grassland birds to inform conservation planning. *Conservation Biology* 35: 1029-1038.
 112. Flory, S.L. and J.L. Lockwood. 2020. Advancing toward a general theory of invasive species impact. *Bulletin of the Ecological Society of America* 101: 1-4
 111. Wilson, J.R.U., S. Bacher, C.C. Daehler, Q.J. Groom, S. Kumschick, J.L. Lockwood, T.B. Robinson, T.A. Zengeya, and D.M. Richardson. 2020. Frameworks used in invasion science; progress and prospects. *NeoBiota*. 62: 1-30. doi: 10.3897/neobiota.62.58738
 110. Ricciardi, A., D.C. Aldridge, T.M. Blackburn, J.T. Carlton, J.A. Catford, J.T.A. Dick, P.E. Hulme, J.C. Iacarella, J.M. Jeschke, A.M. Liebhold, J.L. Lockwood, H.J. MacIsaac, L. Meyerson, P. Pyšek, D.M. Richardson,

- G.M. Ruiz, D. Simberloff, M. Vilà, And D.A. Wardle. In Press. How should invasion science adapt to the Anthropocene? *Environmental Reviews* <https://doi.org/10.1139/er-2020-0088>
109. Sinclair, J.S., J.A. Brown and J.L. Lockwood. 2020. Human-natural system feedback loops within the invasion process. *NeoBiota* 62: 489-508. doi: 10.3897/neobiota.62.52664
 108. **Allen, M.C.**, J.L. Lockwood, and J. Burger. 2021. Finding clarity in ecological outcomes using empirical integrated social-ecological systems: a case study of agriculture-dependent grassland birds. *Journal of Applied Ecology*, 58 (3): 528-538.
 107. Li, D., A.R. Ives, J.D. Olden, J.L. Lockwood, S. Record, M.L. McKinney, and B. Baiser. 2020. Widespread loss of spatial taxonomic, but not phylogenetic, diversity in the Anthropocene. *Proceedings of the Royal Society, B*. 287 (1929), 20200777
 106. **Crystal-Ornelas, R.** and J.L. Lockwood. 2020. Cumulative meta-analysis identifies declining, but negative impacts of invasive species on richness after 20 years. *Ecology*, 101 (8): e03082
 105. Blackburn, T.M., P. Cassey, J.L. Lockwood and R.P. Duncan. 2020. The relationship between propagule pressure and establishment success in alien bird populations: a re-analysis of Moulton & Cropper (2019). *PeerJ* 8, e8766.
 104. **Valentin, R.**, D.M. Fonseca, S. Gable. K. Kyle, G.C. Hamilton, A.L. Nielsen, and J.L. Lockwood. 2020. Moving eDNA surveys onto land: strategies for active eDNA aggregation to detect invasive forest insects. *Molecular Ecology Resources*. 20 (3): 746-755.
 103. Enders, M., F. Havemann, F. Ruland, M. Bernard-Verdier, J. Catford, L. Gómez-Aparicio, S. Haider, T. Heger, C. Kueffer, I. Kühn, L.A. Meyerson, C. Musseau, A. Novoa, A. Ricciardi, A. Sagouis, C. Schittko, D.L. Strayer, M. Vilà, F. Essl, P.E. Hulme, M. van Kleunenq, S. Kumschick, J.L. Lockwood, A.L. Mabey, M. McGeogh, E. Palma, P. Pyšek, W-C Saul, F.A. Yannelli and J.M. Jeschke. 2020. A conceptual map of invasion biology: integrating hypotheses into a consensus network. *Global Ecology and Biogeography* 29 (6): 978-991.
 102. Maslo, B., J.C. Burkhalter, D. Bushek, T. Yuhas, B. Schumm, J. Burger, and J.L. Lockwood. 2020. Assessing conservation conflict: Does intertidal oyster aquaculture inhibit foraging behavior of migratory shorebirds? *Ecosphere* 11 (5): e03097.
 101. **Crystal-Ornelas, R.** and J.L. Lockwood. 2020. The ‘known unknowns’ of invasive species impact measurement. *Biological Invasions* 22: 1513-1525.
 100. Meyerson, L.A., D. Simberloff, L. Boardman, and J.L. Lockwood. 2019. Towards ‘rules’ for studying biological invasions. *Bulletin of the Ecological Society of America* 100 (4): 1-9.
 99. **Allen, M.C.**, J. Burger, and J.L. Lockwood. 2019. Evaluation of a low-cost management option for grassland bird conservation within active

- hayfields. *Avian Ecology and Conservation* 14: 15.
doi.org/10.5751/ACE-01457-140215
98. Sinclair, J.S., J.L. Lockwood, S.E. Arnott, P. Cassey and S. Hasnain. 2019. A framework for predicting which individuals and species are introduced as non-natives. *Biological Invasions*. 22 (2), 217-231
doi.org/10.1007/s10530-019-02086-7
 97. Lockwood, J.L., **D. Welbourne**, C. Romagosa, P. Cassey, N. Mandrak, A. Strecker, B. Leung, **O. Stringham**, B. Udell, D. Episcopio-Sturgeon, M. Tlusty, J. Sinclair, M. Springborn, E. Pienaar, A. Rhyne, and R. Keller. 2019. When pets become pests: the role of the exotic pet trade in producing invasive vertebrate animals. *Frontiers in Ecology and the Environment*, 17: 323-330. doi.org/10.1002/fee.2059
 96. **Brown, J.A.**, J.L. Lockwood, J.D. Avery, J.C. Burkhalter, K. Aagaard, and K.H. Fenn. 2019. Evaluating the long-term effectiveness of terrestrial protected areas: a 40-year look at forest bird diversity. *Biodiversity and Conservation*, 28: 811-826.
 95. Pauchard, A., L.A. Meyerson, S. Bacher, T. Blackburn, G. Brundu, M. Cadotte, F. Courchamp, F. Essl, P. Genovesi, S. Haider, N. Holmes, P. Hulme, J.M. Jeschke, J.L. Lockwood, A. Novoa, M.A. Nunez, D.A. Peltzer, P. Pysek, D.M. Richardson, D. Simberloff, K. Smith, B. van Wilgen, M. Villa, J.R.U. Wilson, M. Winter, and R. Zenni. 2018. Biodiversity assessments: origin matters. *PloS Biology* 16(11): e2006686
 94. **Stringham O.C.** and J.L. Lockwood. 2018. Pet problems: life history and economic factors lead to the release of non-native reptiles and amphibians by pet owners. *Journal of Applied Ecology*, 55: 2632-2640.
 93. Cassey, P, S. Delean, J.L. Lockwood, J. Sadowski, and T.M. Blackburn. 2018. Dissecting the null model for biological invasions: a meta-analysis of the propagule pressure effect. *PLoS Biology* 16: e2005987.
 92. **Valentin, R.E.**, J.L. Lockwood, B.A. Mathys and D. Fonseca. 2018. Influence of invasion history on rapid morphological divergence across island populations of an exotic bird. *Ecology and Evolution* 00:1-12
<https://doi.org/10.1002/ece3.4021>
 91. **Valentin, R.E.**, D. Fonseca, A. Nielson, T.C. Leskey and J.L. Lockwood. 2018. Early detection of terrestrial invasive insect infestations by using eDNA from crop surfaces. *Frontiers in Ecology and the Environment*.
doi:10.1002/fee.1811
 90. Bustamante, M, et al. 2018. 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'**.
 89. 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. 2017. Invasion Science: looking forward rather than revisiting old ground. *Trends in Ecology and Evolution*, 32 (11), 809-810.
88. 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. 2017. Invasion science: a horizon scan of emerging issues and challenges. *Trends in Ecology and Evolution*, 32: 464-474.
 87. Lockwood, J.L. 2017. Exotic birds provide unique insight into species invasions. *Proceedings of the National Academy of Sciences*, 114: 9237-9239.
 86. **Crystal-Ornelas, R.**, 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
 85. **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.
 84. 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.
 83. **Virzi, T.**, J.L. Lockwood, D. Drake, S.M. Grodsky and T. Pover. 2016. Conservation implications of reproductive success of American Oystercatchers in an urbanized barrier island complex. *Wader Study*, 123: 202-212.
 82. **Robinson, O.J.**, O. Jensen, S. M. Provost, S. Huang, N. Fefferman, A. Kebir, and J.L. Lockwood. 2016. Evaluating the impacts of fishing on sex-changing fish: a game-theoretic approach. *ICES Journal of Marine Science* 74: 652-659. ***Editor's Choice***.
 81. **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.
 80. **Aagaard, K.** and J.L. Lockwood. 2016. Severe and rapid population declines in exotic birds. *Biological Invasions* 18: 1667-1678.
 79. **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.
 78. **Burkhalter, J.C.**, J.L. Lockwood, B. Malso, 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.
 77. **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.
76. **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.
 75. Blackburn, T.M., J.L. Lockwood and P. Cassey. 2015. The influence of numbers on invasion success. *Molecular Ecology* 24: 1942-1953.
 74. 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.
 73. **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.
 72. **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.
 71. **Aagaard, K.** and J.L. Lockwood. 2014. Exotic birds show lag phases in population growth. *Diversity and Distributions*, 5: 547-554.
 70. **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.
 69. 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.
 68. 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.
 67. **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.
 66. 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.
 65. 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.
 64. **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.
 63. **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

62. **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.
61. **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.
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Research Related Media

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|------|---|
| 2021 | Interview for Science Magazine and Smithsonian Magazine on air-DNA, <i>Researchers Vacuum DNA From the Air to See What Animals Are Near</i> . |
| 2019 | <i>Protecting small, old-growth forests fails to preserve bird diversity</i> . Mongabay.com . Coverage of Brown et al. 2018. |
| 2019 | Interview for New York Times , <i>This Songbird Is Nearly Extinct in the Wild. An International Treaty Could Help Save It — but Won't</i> . |
| 2018 | Interview for Christian Science Monitor , <i>For wildlife, climate change brings a mixed bag</i> . |
| 2018 | <i>Cute, cheap and popular exotic pets are most likely to be released into the wild</i> . Gizmodo . Coverage of Stringham and Lockwood 2018. |
| 2018 | <i>Most popular exotic pets are most likely to be dumped in the wild</i> . Earth.com . Coverage of Stringham and Lockwood 2018. |
| 2018 | <i>Exotic pets transform into invasive pests</i> . Cosmos Magazine . Coverage of Stringham and Lockwood 2018. |
| 2018 | <i>A household pet becoming our next pest is 'just a matter of time'</i> , Australian Broadcast Company . Coverage of Stringham and Lockwood 2018. |
| 2018 | Interview for Beyond Data podcast, Ret Talbot, <i>Good Catch</i> episode on non-native fish and sustainable fisheries. |
| 2017 | <i>This beautiful parasitic bird could soon turn up in your yard</i> . New York Times . Coverage of Crystal-Ornelas et al. 2017. |
| 2012 | Interview for Pesquisa Fapesp (the major scientific and technical magazine for Brazil) on biotic homogenization of tropical rainforests. |

- 2009 Interview for **BBC** on extinction patterns within geological and modern taxa.
- 2007 Interview for **High Country News** *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.

Book Chapters

- 21. **Safiq, A.D.**, J.L. Lockwood and **J.A Brown**. 2019. Homogenization of fish assemblages off the coast of Florida. Chapter in *From Biocultural Homogenization to Biocultural Conservation* (R. Rozzi et al. Eds.). Springer.
- 20. Li, D., J.L. Lockwood, and B. Baiser. 2019. 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.
- 19. Cassey, P. P. Garcia-Diaz, J.L. Lockwood, and T.M. Blackburn. 2018. 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.)
- 18. Avery, J.A. and J.L. Lockwood. 2017. 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.
- 17. 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.
- 16. 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.
- 15. 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.
- 14. 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.
- 13. 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.

12. 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.
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9. 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.
8. 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.
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4. 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.
3. 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.
2. 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.
1. 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.

Grants and Contracts

PI = Principle Investigator

co-PI = co-principal investigator

Pending

- \$3,000,000 U.S. Department of Energy. Pending. **Enabling multi-disciplinary pathways in offshore wind education and research (EMPOWER)**. Senior Personnel (J. Kohut, PI).
- \$700,000 U.S. Forest Service, Pending. **Development and deployment of an environmental DNA survey for Asian long-horn beetle**, PI.

Awarded

- \$190,000 National Fish and Wildlife Foundation. **Risk evaluation and management plan for the invasive Chinese Pond Mussel in the Delaware Watershed**, PI with M. Allen (also PI).
- \$150,000 ExxonMobil, 2023. **eDNA biodiversity monitoring in forest carbon markets**. PI with M. Allen (also PI).
- \$3,000,000 National Science Foundation. 2022-2027. **Socioeconomic and Epidemiological Drivers of Pathogen Dynamics in Wildlife Trade Networks** – Senior Personnel (M. Gray et al., PI, University of Tennessee). [Rutgers portion: \$225,000]
- \$600,000 New York State Department of Transportation. 2022-2024. **Using environmental DNA to survey for spotted lantern fly**, – PI.
- \$30,000 The Nature Conservancy, New Jersey. 2022. **River restoration success analysis**, – PI with M. Allen (also PI).
- \$30,000 New Jersey Department of Environmental Protection. 2021-2022, **Use of environmental DNA to document the impacts of the invasive stinging jellyfish within mid-Atlantic estuaries**, – PI.
- \$150,000 USDA APHIS, 2021-2022, **Detection of khapra beetle in stored grains using environmental DNA**. – PI
- \$250,000 US Department of Defense, SERDP, 2020–2024. **A terrestrial environmental DNA survey for coconut rhinoceros beetle surveillance and mitigation**. – PI, with Anne Nielsen (co-PI).
- \$13,000 New Jersey Conservation Foundation 2020, **Detection of Chinese pond mussels after eradication attempts**. – PI
- \$200,000 New Jersey Department of Environmental Protection, 2020–2026, **Using eDNA surveys within indices of river biotic integrity**, – PI
- \$700,000 Australian Research Council, 2021-2025, **Drivers of the live pet trade in Australian reptiles**, – co-PI (P. Cassey, PI)

\$250,000	ExxonMobil, Feasibility of using environmental DNA for biodiversity monitoring within terrestrial environments – PI, with B. Jaffe and J. Angle (also PIs).
\$134,000	New Jersey Sea Grant, 2020-2022, Mapping eastern black rail habitat to aid in coastal conservation and climate resiliency planning – PI.
\$7,308,194	USDA-Specialty Crop Research Initiative, 2019-2022, Biology, management and reducing the impact of the spotted lanternfly on specialty crops in the eastern USA. –_Co-PI, with Julie Urban (PI, Penn State). [Rutgers portion, \$400,000.]
\$200,000	USDA-AFRI, 2019-2021, Terrestrial eDNA survey protocol development for early detection of brown marmorated stink bug and spotted lanternfly in agricultural landscapes – PI, with Dina Fonseca (co-PI) and Anne Nielsen (co-PI)
\$63,174	US National Science Foundation, 2019-2020, Invasion Biology Rules of Life Working Group – PI, with Laura Meyerson and Dan Simberloff (also PIs).
\$11,000	New Jersey Department of Agriculture, 2018-2019, Development of spotted lanternfly (SLF) eDNA assay and survey methods – co-PI, with Dina Fonseca (PI).
NA	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 Christina Romagosa (also PI).
\$299,925	USDA-AFRS, 2016-2021, An area-wide biointensive management plan for brown marmorated stink bug (BMSB), <i>Halymorpha halys</i> (Stal), to reduce the impacts throughout the agro-urban interface – co-PI with Tracy Leskey, USDA (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.
\$8,500	National Geographic Society, 2010-2011, Parasites and the invasion success of hosts – co-PI with Mark 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 (<i>Ammodramus maritimus mirabilis</i>) – PI with Rebecca 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 (<i>Ammodramus maritimus mirabilis</i>) – PI with Gary Slater, Rebecca Boulton (PI), and Stuart 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.
\$250,000	Critical Ecosystems Science Initiative, National Park Service, 2004–2005, 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 Tim Blackburn (PI) and Daniel 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

2023	Saratoga Springs, NY – Avoiding the invasive species doom loop. New York Invasive Species Expo. New York Invasive Species Research Institute, Cornell University.
2020	Virtual – Using social-ecological systems models for biodiversity conservation. Distinguished Ecologists Lecture Series, Michigan Technological University, College of Forestry Resources and Environmental Science.
2019	Montreal, CAN – Colonization pressure and the insights of supply-side invasion ecology. Keynote Address, International Congress on Aquatic Invasive Species.
2019	New York, NY – Invaders in the Forest. Black Rock Forest’s 30 th Anniversary Benefit Luncheon. Metropolitan Club.
2018	Toronto, Ontario, CAN – Pushing past tired debates in invasion biology: a close look at the propagule pressure hypothesis. New Frontiers Seminar Series, University of Toronto.
2015	Halifax, Nova Scotia, CAN – Supply side invasion ecology. Keynote Address, Canadian Aquatic Invasive Species Network Annual Meeting.
2013	Macon, GA – The population biology of exotic species: where’s the management message? Keynote Address, Georgia Exotic Pest Plant Council.
2011	Annapolis, MD – How important is propagule pressure in invasion ecology, Keynote Address, USDA Forum on Invasive Species.

Invited

2023	Virtual –_Spotted Lanternfly Summit
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2022	Montreal, CA – Symposium honoring D. Simberloff, Ecological Society of America
2022	Virtual – Association of Mid-Atlantic Aquatic Biologists
2021	Virtual – Ecological Society of America
2021	Virtual – University of Massachusetts Agricultural Extension
2021	Virtual – National Association of State Foresters, Forest Health Committee
2020	Millbrook, NY – Cary Institute of Ecosystem Studies
2019	Philadelphia, PA – Temple University, Department of Biology
2019	Saratoga Springs, NY -- Symposium, North American Invasive Species Management Association Annual Meeting
2019	Saratoga Springs, NY – Symposium, North American Invasive Species Management Association Annual Meeting
2019	Louisville, KY – Symposium, Ecological Society of America
2017	Knoxville, TN – Ecology and Evolutionary Biology seminar series, University of Tennessee
2016	Gainesville, FL – Wildlife Ecology and Conservation seminar series, University of Florida
2016	New Brunswick, NJ – Crossroads in the Concrete Jungle: Experiences and Explorations of Urban Plants and People, Rutgers University
2015	Philadelphia, PA – Department of Biology, Temple University
2015	Queens, NY – Department of Biology Seminar Series, Queens College, City University of New York
2015	St. Paul, MN – College of Biological Sciences Seminar Series, University of Minnesota
2015	Bryn Mawr, PA – Department of Biology Seminar Series, Bryn Mawr College
2013	Lexington, KY – Natural Resources Seminar, University of Kentucky
2013	Montclair, NJ – Environmental Sustainability Seminar, Montclair State University
2013	State College, PA – Coping with Global Environmental Change Series, Penn State University
2012	Somerset, NJ – Emerging Issues in Land Management, Duke Farms Foundation
2011	Statesboro, GA – Biology Alumna of the Year Seminar, Department of Biology, Georgia Southern University
2009	Villanova, PA – Villanova University, Department of Biology
2009	Newark, DE – Seminar, University of Delaware, Department of Entomology and Wildlife Biology
2008	Davis, CA – Univ. of California Davis Ecology and Evolution Seminar Series
2008	New York, NY – Columbia University Ecology, Evolution and Environmental Biology, Seminar Series

2008 Storrs, CT – Univ. of Connecticut Ecology and Evolution Seminar Series

2008 Storrs, CT – Univ. of Connecticut Natural Resource Management Seminar Series

2007 Miami, FL – National Research Council, Everglades Restoration

2006 New York, NY – Lamont-Doherty Earth Observatory, Columbia University Seminar Series

2005 Hamilton, NJ – New Jersey Wildlife Society Annual Meetings

2005 Newark, NJ – Rutgers Newark Biology Colloquium

2005 St. Louis, MO – Univ. of Missouri–St. Louis Biology Seminar Series

2004 New York, NY – Columbia University

2004 Portland, OR – Insights from Exotic Species, Ecological Society of America

2004 Fairbanks, AK – National Science Foundation Long-term Ecological Research Site Coordinating Committee Workshop

2004 Statesboro, GA – Georgia Southern University Department of Biology Distinguished Alumni Lecture

2003 Las Vegas, NV – Biogeography and Conservation, Inaugural Meeting of the International Society for Biogeography

2003 London, England – Symposium Participant, Phylogeny and Conservation, The Zoological Society of London

2003 Key Largo, FL – Symposium Participant, Sustainable Ecosystems Institute Symposium on Avian Ecology and Everglades Restoration

2002 Tampa, FL – Department of Biology, University of South Florida

2002 Tucson, AZ – Symposium Participant, Restoration and Global Climate Change, Ecological Society of America

2001 Kona, HI – Symposium Participant, Maintaining Landscape Heterogeneity, Society for Range Management

2000 Naples, FL – Greater Everglades Ecosystem Restoration Conference

1999 Missoula, MT – Society for Conservation Biology.

1998 Davis, CA. – Conservation Biology Seminar Series, University of California, Davis

1997 Baltimore, MD – Ecological Society of America annual meeting.

1996 Knoxville, TN – Department of Ecology and Evolutionary Biology Seminar Series, University of Tennessee, Knoxville.

1995 Knoxville, TN - Department of Ecology and Evolutionary Biology Seminar Series, University of Tennessee.

1995 Snowbird, UT - Symposium Participant, Assembly Rules, Ecological Society of America.

1994 Knoxville, TN – Evolutionary and Behavioral Ecology Seminar Group, University of Tennessee.

1991 Statesboro, GA – Department of Biology Seminar Series, Georgia Southern University.

Teaching

Formal Courses

2022 – pres.	Climate Change Biology (undergraduate and graduate) – Rutgers University.
2021 – 2023	Principles of Ecology Lab (undergraduate) – Rutgers University.
2005 – 2021	Topics in Ecology, Evolution and Natural Resources (undergraduate required) – Rutgers University.
2012 – pres	Ethics and Professional Development in Ecology and Evolution (graduate required) – Rutgers University.
2009 – 2019	Vertebrate Zoology (undergraduate) – Rutgers University.
2005, 2014, 2019	Ecological Economics (graduate) – Rutgers University.
2003 – 2013	Principles of Ecology (undergraduate), co-taught with D. Ehrenfeld – 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.
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.
2000 – 2003	Conservation Biology (graduate required) – 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.

Special Topics

2020	Occupancy Models (graduate) – Rutgers University.
2015, 2022	Meta-analysis (graduate) – Rutgers University.
2016	Agent-based Models (graduate) – Rutgers University.
2013 – 2014	The Secret Life of Birds (Byrne-Aresty Freshman Seminar Series) – Rutgers University.
2010	Classification and Regression Trees (graduate) – Rutgers University.
2009	Information Theoretic Statistics (graduate) – Rutgers University.

- 2007 – 2011 **Ecology of the Jersey Shore** (Byrne Freshman Seminar Series) – Rutgers University.
- 2008 **Distance Sampling** (graduate) – Rutgers University.
- 2003 **The Evolution of Life Histories** (graduate seminar) – Univ. of California.
- 2003 **Null Models in Ecology** (graduate seminar) – Univ. of California.
- 2000 **Conservation Policy** (graduate seminar), co-taught with D. Press – Univ. of California.
- 1998 **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.

Undergraduate Thesis

- 2020 **Tucker Birmingham**, George H. Cook Thesis, “Are You My Mother? Examining Genetic Mating Systems in Tropical Birds”.
- 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.

Students and Post-docs

Current Students

Leon Tkacenko	Ph.D. candidate. Reconciling biodiversity conservation and climate change mitigation.
Jose Ramirez-Garofalo	Ph.D. candidate. Avian conservation within the context of climate change.
Shannon Dickey	Ph.D. candidate. Response of saltmarshes to global change.
Caleb Truscott	Ph.D. candidate. Freshwater biodiversity conservation.

Former Students

Dr. Ryan Almeida	2023, <i>Causes and consequences of overexploitation of rare and valuable species for the commercial wildlife trade</i> . Visiting Assistant Professor, Hamilton College, NY.
Dr. Kathleen Kyle	2023, <i>Using eDNA to bridge the gap between species presence and detection: implications for conservation and invasive species management</i> . Research Scientist, Rutgers eDNA Lab, NJ.
Dr. Alexandria Safiq	2019, <i>Integrating sustainable natural resource management and conservation objectives: approaches to ecosystem based management</i> . Marine Salmon Fisheries Coordinator, Washington Department of Fish and Wildlife, WA.
Dr. Michael Allen	2019, <i>Improving effectiveness of land sharing conservation efforts for North American grassland birds</i> . Research Associate, Rutgers University, NJ.
Dr. Rob Crystal-Ornelas	2019, <i>Analyzing invasive species impacts on native species</i> . GitHub, CA.
Dr. Jeff Brown	2019, <i>The influence of urbanization and surrounding landscape on wildlife in natural areas</i> . Senior Manager of Applied Climate Research, The Natural Areas Conservancy, NY.

Dr. Oliver Stringham	2018, <i>Preventing biological invasions by understanding the processes leading to establishment</i> . Research Analyst, Rutgers Climate and Energy Institute, NJ.
Dr. Rafael Valentin	2018, <i>Understanding species invasion dynamics, and its effects on post-establishment evolution, global spread, and population detectability</i> . Bioinformatics scientist, Elysium Health, NJ.
Dr. J. Curtis Burkhalter	2014, <i>Decision-making in ecology and its application to animal conservation</i> . Data Analyst, Alteryx, FL.
Dr. Kevin Aagaard	2014, <i>The population dynamics of lags and collapses</i> . Senior Data Engineer, AE Strategies, VA.
Dr. Orin Robinson	2014, <i>Simple modeling solutions for complex conservation problems</i> . Research Ecologist, 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> . Research Associate Professor, 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> . Associate 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 Everglades</i> . Director of Global Market Development, Cellular Tracking Technologies, NJ.
Dr. Alison (Siegal) Nurok	2009, <i>Maximizing the effectiveness of grassland management for a grasshopper sparrow (<i>Ammodramus savannarum</i>) metapopulation</i> . Associate in Biology Instruction, Middlebury College, VT.
Dr. Ben Baiser	2009, <i>Biodiversity in a rapidly changing world: from local interactions to large-scale patterns</i> . Associate Professor, Department of Wildlife and Conservation, University of Florida, FL.
Dr. Tom Virzi	2008, Ph.D. <i>Effects of urbanization on the distribution and reproductive performance of the American Oystercatcher (<i>Haematopus palliates palliates</i>) in coastal New Jersey</i> . Founder and Research Scientist, Conservation InSight, Portland, OR.
Dr. Liba Pejchar Goldstein	2004, <i>Ecology of an endangered Hawaiian Honeycreeper and implications for conservation on</i>

	<i>private land</i> . Professor, Department of Fish, Wildlife and Conservation Biology, Colorado State University, CO.
William Lynch, Jr.	2009, <i>Avian communities and their status in North American wetlands</i> . Assistant Director of Education Programs & Communications, New Jersey Conservation Foundation, NJ.
Thom Almendinger	2007, <i>Overabundant white-tailed deer and the alteration of forested communities</i> . Director of Stewardship, Duke Farms, NJ.
Robert Somes	2006, <i>The future of fire management in the New Jersey pine barrens</i> . Senior Zoologist, Endangered and Nongame Species Program, NJ.

Former Post-Docs

Dr. Michael Allen	2019 – 2022. Development and application of socio-ecological models to population management. Research Associate, Rutgers University.
Dr. Donnie Peterson	2020 – 2021. Marie Curie Post-Doctoral Research Associate, Swedish University of Agricultural Sciences.
Dr. Chris Field	2017 – 2019. Research Associate, USFWS Atlantic Coast Joint Venture, CT.
Dr. Laura Reynolds	2018 – 2020. Assistant Professor in Earth Science, Worcester University, MA.
Dr. Dustin Welbourne	2018. Quantitative Geography Consultant, Somewhere on the high seas.
Dr. James Gilroy	2010–2011, Lecturer in Ecology, School of Environmental Science, University of East Anglia, UK.
Dr. Rebecca Boulton	2005-2009, Founder <i>RLB Ecology</i> , Adelaide, AUS
Dr. Phillip Cassey	2003-2004, Associate Professor and Associate Department Head, School of Biological Sciences, University of Adelaide, AUS

Service

University

2023 – pres 2023	Member, Rutgers-New Brunswick Climate Task Force Chair, Search Committee for Urban Ecologist, Department of Ecology, Evolution and Natural Resources, Rutgers University
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2021-2022	Chair, Task Force on Climate Change – Vice Provost of Research Office, Rutgers-New Brunswick.
2004 – 2013, 2018 – 2019	Member, Undergraduate Curriculum Committee – Major in Ecology, Evolution and Natural Resources, Rutgers University.
2016-2017	Chair, Search Committee for Theoretical Ecologist, School of Environmental and Biological Sciences, Rutgers University.
2009 – 2018	Member, Executive Council, Department of Ecology, Evolution and Natural Resources, Rutgers University.
2016	Co-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, 2017	Member, Appointments and Promotion Committee, School of Environmental and Biological Sciences, Rutgers University.
2013	Member, Strategic Planning Committee, Graduate School – New Brunswick, 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 – 2008	Member, Search Committee for Fisheries Oceanographer – Institute for Marine and Coastal Sciences, Rutgers University.
2006	<i>Ad hoc</i> committee to consider the freshman experience at the School of Environmental and Biological Science, Rutgers University.
2005	<i>Ad hoc</i> 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 Committee 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	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

Profession

Ongoing	Outside reviewer for proposed books: Oxford University Press, Cambridge University Press, University of Chicago Press.
Ongoing	Peer review for <i>Science</i> , <i>Biodiversity and Conservation</i> , <i>Behavioral Ecology</i> , <i>Diversity and Distributions</i> , <i>Ecological Restoration</i> , <i>The Condor</i> , <i>Ardeola</i> , <i>American Naturalist</i> , <i>Landscape Ecology</i> , <i>Biological Invasions</i> , <i>Biological Journal of the Linnean Society</i> , <i>Ecological Applications</i> , <i>Biological Conservation</i> , <i>Journal of Ecology</i> , <i>Proceedings of the Royal Society of London, Series B</i> , <i>Ecology Letters</i> , <i>Trends in Ecology and Evolution</i> , <i>Wilson Bulletin</i> , <i>Restoration Ecology</i> , <i>Wildlife Research</i> , <i>BioScience</i> , <i>Functional Ecology</i> , <i>Ecological Economics</i> , <i>Frontiers in Ecology and the Environment</i> , <i>Ecography</i> , <i>Climate Change</i> , <i>Molecular Ecology</i> , <i>Journal of Avian Biology</i> , <i>Science</i> , <i>Nature</i> , <i>Conservation Letters</i> .
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, US Department of Defense SERDP Endangered Species Grants.
- 2011 Technical Review Team Member, Northeast Association of Fish and Wildlife Agencies (NEAFWA), Regional Conservation Need (RCN) program
- 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.

Reference Contacts:

Tim Blackburn, University College London, t.blackburn@ucl.ac.uk, 020 3108 7694 (Ex: 57694); <https://tblackburn4.wixsite.com/blackburninvasion>

Daniel Simberloff, University of Tennessee, dsimberloff@utk.edu, 865-974-3067, <https://eeb.utk.edu/people/daniel-simberloff/>

Peter Morin, Rutgers University, pjmorin@rci.rutgers.edu, 848-932-3214; https://deenr.rutgers.edu/faculty/Peter_Morin.html

Phillip Cassey, University of Adelaide, phill.cassey@adelaide.edu.au, +61 8 8313 4042; <http://www.cassey-invasion-ecology.org/>

Nina Fefferman, University of Tennessee, nina.h.fefferman@gmail.com, 865-974-2913, <http://feffermanlab.org/>