

Oliver C. Stringham

Postdoctoral Research Associate
University of Adelaide, Australia

oliverstringham@gmail.com

<https://oliverstringham.com>

he/his/him

EDUCATION

- 2014 – 2019 PhD in Ecology and Evolution, Rutgers University.
 Committee: Julie Lockwood (adviser), Nicholas Mandrak,
 Brooke Maslo, Malin Pinsky, Nina Fefferman.
- 2010 – 2014 BS in Ecology, Evolution and Natural Resources
 BS in Environmental Science
 Certificate in Environmental Geomatics (GIS)
 Rutgers University

PUBLICATIONS

PEER-REVIEWED JOURNAL ARTICLES

Underline denotes my co-supervised graduate students

16. **Stringham O.C.**, Moncayo, S., Toomes, A., Ross, J.V., Mitchell, L., Cassey, P. (in prep)
Quantifying the illegal trade of alien pets occurring in Australia through the Internet.
15. **Stringham, O.C.** & Lockwood, J.L. (in prep) Testing the assumption of spatial and temporal independence of introduced populations.
14. **Stringham, O.C.** & Mohanty, N.P. (in prep) Spatial patterns in the global trade of pet amphibians.
13. Pienaar E.F., Keller R., Welbourne, D., Tlusty, M. Strecker, A., Episcopio-Sturgeon, D., **Stringham, O.C.**, Toomes, A., Lockwood, J.L. (in prep) A Conceptual Framework of how Human Preferences and Behavior Drive the Release of Exotic Vertebrate Pet Species.
12. Sinclair, J., **Stringham, O.C.**, Udell, B., Mandrak, N., Leung, B., Romagosa, C.M., Lockwood J.L. (submitted) The international vertebrate pet trade network: data synthesis and a case study of US imports of pet amphibians, birds, fishes, mammals and reptiles.
11. **Stringham O.C.**, Moncayo, S., Toomes, A., Ross, J.V., Mitchell, L., Cassey, P. (submitted) Text classification to streamline online wildlife trade analyses. Preprint: [PDF](#)

9. **Stringham O.C.**, García-Díaz, P., Toomes, A., Ross, J.V., Mitchell, L., Cassey, P. (submitted) Reptile smuggling is predicted by trends in the legal exotic pet trade. Preprint: [PDF](#)
8. **Stringham O.C.**, Toomes, A., Kanishka, A., Heinrich, S., Ross, J.V., Mitchell, L., Cassey, P. (accepted) A guide to using the internet to study the wildlife trade. *Conservation Biology*. Preprint: [PDF](#)
7. **Stringham, O.C.** & Lockwood, J.L. (accepted) Reducing propagule pressure to lower the establishment risk of potential invasive species: using a sensitivity analysis to develop context-specific policy goals. *Ecological Applications*. PDF forthcoming,
6. Toomes, A., **Stringham, O.C.**, Ross, J.V., Mitchell, L., Cassey, P. (2020) Australia's wish list of exotic pets: biosecurity and conservation implications of desired exotic pet species. *NeoBiota*. 10.3897/neobiota.60.51431. [PDF](#)
5. Lockwood, J.L., Welbourne, D., Romagosa, C., Cassey, P., Mandrak, N., Strecker, A., Leung, B., **Stringham, O.C.**, Udell, B., Episcopio-Sturgeon, D., Tlusty, M., Sinclair, J., Springborn, M., Pienaar, E., Rhyne, A. (2019) When Pets Become Pests: The Role of the Exotic Pet Trade in Producing Invasive Vertebrate Animals. *Frontiers in Ecology and the Environment*. [PDF](#)
4. **Stringham, O.C.** & Lockwood, J.L. (2018) Pet problems: Biological and economic factors that influence the release of alien reptiles and amphibians by pet owners. *Journal of Applied Ecology* 55, 2632–2640. [PDF](#)
3. Maslo, B., **Stringham, O. C.**, Bevan, A. J., Brumbaugh, A. Sanders, C. Hall, M. & Fefferman, N. H. (2017) High annual survival in infected wildlife populations may veil a persistent extinction risk from disease. *Ecosphere*. 10.1002/ecs2.2001 [PDF](#)
2. Robinson, O. J., Lockwood, J. L., **Stringham, O. C.**, & Fefferman, N. H. (2015). A novel tool for making policy recommendations based on PVA: helping theory become practice. *Conservation Letters*, 8(3), 190-198. [PDF](#)
1. **Stringham, O. C.**, & Robinson, O. J. (2015). A modeling methodology to evaluate the efficacy of predator exclosures versus predator control. *Animal Conservation*, 18(5), 451-460. [PDF](#)

REPORTS

- Hill, K., Cassey P. **Stringham, O.C.**, Toomes, A. (2020). Response to the Australian Department of Agriculture, Water and the Environment on their 'Import risk review for psittacine birds from all countries'. [PDF](#)

Cassey, P., Wittmann, T., Toomes, A., **Stringham, O.C.** (2020). Illegal Wildlife Trade: A Threat To Environmental Biosecurity, Biodiversity, Human Health and Wellbeing. Center for Invasive Species Solutions & University of Adelaide, Australia. [PDF](#)

Van Abs, D.J., **Stringham, O.C.**, Gao, Y., Evans, T. (2014). Effects of Land Development on Water Resources of the Pinelands Region. Prepared for New Jersey Future. Rutgers, The State University of New Jersey. New Brunswick, NJ. [PDF](#)

TEACHING

2018 Ornithology & Lab. Instructor (1 semester), Rutgers University

GUEST LECTURING

2018 Plant Ecology, Guest Lecturer, Rutgers University

2017 – 2018 Ornithology. Guest Lecturer (2 lectures), Rutgers University

2017 Seminar in Invasion Ecology. Guest Lecturer, Rutgers University

2014 Evolution, Disease, and Medicine. Guest Lecturer, Rutgers University

TEACHING ASSISTANTSHIPS

2018 Plant Ecology, Teaching Assistant (1 semester), Rutgers University

2017 – 2018 Ornithology. Teaching Assistant (2 semesters), Rutgers University

2016 Concepts in Biology Lab. Teaching Assistant (1 semester), Rutgers University

2015 – 2017 General Biology. Teaching Assistant (6 semesters), Rutgers University

PRESENTATIONS

Conference presentations

2020 “Biosecurity and the illegal pet trade: using U.S. demand to anticipate future incursions in Australia” **Stringham OC**, Toomes A, Mitchell L, Ross J, Cassey P. Australasian Vertebrate Pest Conference (AVPC). Melbourne, Australia. Postponed due to COVID-19 pandemic.

- 2020 “Monitoring internet sales of wildlife to detect illegal trade” **Stringham OC**, Toomes A, Mitchell L, Ross J, Cassey P. Australasian Environmental Law Enforcement and Regulators neTwork (AELERT) and the International Network for Environmental Compliance and Enforcement (INECE) Conference, Adelaide, Australia.
- 2018 “Incorporating propagule pressure into invasion risk assessment” **Stringham OC** & Lockwood JL. North American Congress for Conservation Biology. Toronto, Canada.
- 2017 “Predicting long-term dynamics of Indiana bat populations infected with white-nose syndrome” Maslo B, **Stringham OC**, Bevan A, Brumbaugh A, Sanders C, Hall M, Fefferman N. Ecological Society of America. Portland, OR, USA.
- 2017 “Pet problems: Factors that influence releases of exotic pet reptiles and amphibians” **Stringham OC** & Lockwood JL. Ecological Society of America. Portland, OR, USA.

Invited talks

- 2020 “The wildlife trade in relation to ecotourism”. **Stringham OC** & Cassey P. Perspectives in science-based ecotourism: mini conference. The University of Adelaide, Adelaide, SA, Australia.
- 2020 “Invasion Science and Wildlife Ecology Introduction” **Stringham OC**, Cassey P, Toomes A, Maher JA. Australian Institute for Machine Learning. Adelaide, Australia.
- 2019 “The wildlife trade as a driver of biodiversity loss and source of invasive species”. **Stringham OC** & Cassey P. Perspectives in science-based ecotourism: mini conference. The University of Adelaide, Adelaide, SA, Australia.
- 2019 “Understanding the processes leading up to establishment of non-native species”. **Stringham OC**. Australian Research Council (ARC) Centre of Excellence for Mathematical and Statistical Frontiers (ACEMS) Seminar. The University of Adelaide, Adelaide, SA, Australia.
- 2018 “Preventing biological invasions by understanding the processes leading to establishment”. **Stringham OC**. PhD Defense Seminar for Rutgers Department of Ecology, Evolution, and Natural Resources. Rutgers University, New Brunswick, NJ, USA.
- 2017 “Get your herps here! Dynamics of reptile and amphibian exotic pet trade and what that means for invasive species management” **Stringham OC** &

Lockwood JL. Rutgers Ecology Graduate Student Association Seminar. Rutgers University, New Brunswick, NJ, USA.

- 2017 “Exploration of the spatial and temporal dynamics of the reptile and amphibian pet trade” **Stringham OC**. 7th Annual Rutgers GIS Day. Rutgers University, New Brunswick, NJ, USA.
- 2016 “Factors associated with non-native introductions of pet reptiles and amphibians” **Stringham OC** & Lockwood JL. Rutgers Ecology Graduate Student Association Seminar. Rutgers University, New Brunswick, NJ, USA.
- 2014 “Determining the efficacy of predator exclosures vs. predator control: a modeling case study of the red fox and piping plover in New Jersey” **Stringham OC**, Robinson OJ & Lockwood JL. G.H. Cook Undergraduate Honors Thesis Presentation. Rutgers University, New Brunswick, NJ, USA.

GRANTS

- 2018 Teaching Assistant/Graduate Assistant Professional Development Grant. Rutgers University. (\$752)
- 2017 Teaching Assistant/Graduate Assistant Professional Development Grant. Rutgers University. (\$925)
- 2017 Conference Travel Award. Rutgers University. (\$150)

HONORS AND AWARDS

- 2014 Environmental Science Senior of the Year, Rutgers University
- 2014 Outstanding Senior in Environmental Geomatics (GIS), Rutgers University

MENTORING

- 2020 – Katherine Hill, PhD Student, The University of Adelaide. Co-advisor. Topic: The trade of native Australian parrots and their out-of-range invasion risk.
- 2020 – Jade Birmingham, Honours Student, The University of Adelaide. Co-advisor. Topic: Survivorship during international plane travel of exotic pet species: implications for animal welfare.

- 2019 Abilash Sivadasan, Honours Student, The University of Adelaide.
Co-advisor. Topic: Does illegal smuggling of wildlife scale to measures of population density in Australia?
- 2019 – Adam Toomes, PhD Student, The University of Adelaide. Co-advisor.
Topic: The biosecurity risks of the Australian illegal pet trade.
- 2017 – 2018 Katharine Mattaliano, Undergraduate Research, Rutgers University.
Topic: Domestic breeding of exotic pets: a risk for biological invasions.
- 2017 – 2018 Jacqueline Cavaliere, Undergraduate Research, Rutgers University.
Topic: Legal frameworks for releases of exotic pets in the USA.
- 2016 – 2017 Jacey Corrente, Undergraduate Research, Rutgers University.
Topic: The secondary market of exotic pet reptiles and amphibians: why do people relinquish their exotic pets?
- 2015 Elizabeth Newton, Undergraduate Senior Thesis, Rutgers University.
Topic: Sustainable harvest model of black bears in New Jersey: maintaining the cultural carrying capacity.

SERVICE

Peer reviewer *Frontiers in Ecology and the Environment, Conservation Letters, Conservation Biology, Ecography, Biological Invasions, Animals, Journal for Nature Conservation, Management of Biological Invasions, Urban Naturalist*
[Publon Profile](#)

WORKING GROUPS

- 2019 – Illegal Wildlife Trade Workshop & Working Group. Environmental Biosecurity Office, Canberra, Australia.
- 2017 – 2018 National Socio-Environmental Synthesis Center (SESYNC) Participant.
Project: “Linking Trade, Biology, and Pet Owner Decisions to the Risk of Vertebrate Invasions in the US”

PROFESSIONAL DEVELOPMENT

- 2017 COMPASS: Science Communication Training

2016 AAAS: Communicating Science Workshop

OTHER PROFESSIONAL POSITIONS

2015 Research Assistant, Endangered & Nongame Species Program, New Jersey Depart. of Fish & Wildlife

2015 GIS Research Assistant, Harbor & Estuary Program, Hudson River Foundation

2014 – 2015 Research Assistant, Rutgers University, Department of Human Ecology