

Curriculum vitae

Corey T. Callaghan

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PROFESSIONAL POSITIONS

Assistant Professor of Global Ecology, University of Florida	November 2022-Present
Marie-Curie Postdoctoral Researcher, iDiv, Leipzig, Germany	November 2020-November 2022
Postdoctoral Researcher, UNSW Sydney, Sydney, Australia	November 2019-October 2020

EDUCATION

UNSW (University of New South Wales) Sydney, Sydney, Australia	2016-2019
<ul style="list-style-type: none">▪ PhD, Biological Sciences▪ Dissertation: Avian species and community responses to urbanization at local and global scales	
Florida Atlantic University, Boca Raton, Florida	2013-2015
<ul style="list-style-type: none">▪ M.S., Environmental Science▪ Thesis: Diet of the Purple Swamphen in south Florida and invasion pathways of nonnative avian species in Florida	
Canisius College, Buffalo, New York	2009-2013
<ul style="list-style-type: none">▪ B.S., Environmental Science▪ B.S., Mathematics & Statistics	

PUBLICATIONS

I have **>100 publications** in international peer-reviewed journals, book chapters, and popular articles. My **h-index = 39**, **i10-index = 83**, and total **citations = 4564** (as per Google Scholar Citations; October 2nd, 2025).

PEER REVIEWED PUBLICATIONS

112. **Callaghan, C. T.**, R. Venegas-Li, B. M. Mason^E, R. A. Fuller, R. Spake, and J. E. M. Watson. 2025. High-integrity forests are critical for forest specialist birds. *Global Ecology and Biogeography* 34(9): e70118.
111. Mason, B. M.^E, R. Bratton, C. Crandall, H. H. Hochmair, A. Mallinak, E. Suarez, S. Tatem, and **C. T. Callaghan**. 2025. Quantifying the use of citizen science as a tool for biodiversity management and engagement. *Conservation Science and Practice*.
110. Lowe, S. K.^G, B. M. Mason, R. Guralnick, N. A. Morales, and **C. T. Callaghan**. 2025. Participation intensity influences motivations for contributing to iNaturalist. *Citizen Science: Theory & Practice*.
109. **Callaghan, C. T.**, B. M. Mason, A. Echeverri, and N. Ocampo-Peñuela. 2025. Birdwatchers' attitudes and preferences that influence their decisions to engage in local, national, and international birdwatching trips. *Journal of Ecotourism*

108. Mason, B. M.^E, T. Mesaglio, J. Barratt Heitmann^G, M. Chandler, S. Chowdhury, S. B. Z. Gorta, F. Grattarola, Q. Groom, C. Hitchcock, L. Hoskins^G, S. K. Lowe^G, M. Marquis^G, N. Pernat, V. Shirey, S. Baasanmunkh, and **C. T. Callaghan**. 2025. iNaturalist accelerates biodiversity research. *BioScience*
107. Baasanmunkh, S., B. Oyuntsetseg, Z. Tsegmed, A. Undruul, D. Munkhtulga, M. Urgamal, N. Nyambayar, C. Javzandolgor, C. Bayarmaa, D. Narangarvuu, N. Batbayar, K. Nyamsuren, T. Namuulin, O. Munkhzul, G. Indra, G. Batsugar, E. Tsengel, Y. M. Kim, **C. T. Callaghan**, and H. J. Choi. 2025. iNaturalist projects represent a valuable resource for aggregating plant observations and engaging society: A case study of the Flora of Mongolia project. *Plants People Planet*.
106. Nakagawa, S. N., W. K. Cornwell, and **C. T. Callaghan**. 2025. Decoupling both local and global abundance from global range size, challenging the abundance-occupancy relationship in birds. *eLife* 13:RP95857.
105. Cao, H.^g, N. G. Miguez^u, B. M. Mason, **C. T. Callaghan**, J. Qiu. 2025. Spatial patterns and interactions among multiple cultural ecosystem services across urban greenspaces. *Ecosystem Services* 73:101740.
104. Miguez, N. G.^u, B. M. Mason, J. Qiu, H. Cao, and **C. T. Callaghan**. 2025. Urban greenspaces benefit both human utility and biodiversity. *Urban Forestry & Urban Greening* 107:128791.
103. Barratt Heitmann, J., B. M. Mason, and **C. T. Callaghan**. 2025. Land cover and area influence bird biodiversity in geographically isolated wetlands. *Diversity and Distributions* 31:e70012.
102. Backstrom, L. J., **C. T. Callaghan**, H. Worthington, R. A. Fuller, and A. Johnston. 2025. Estimating sampling biases in citizen science datasets. *Ibis* 167(1):73-87.
101. Bowler, D. E., **C. T. Callaghan**, J. F. Felappi, B. M. Mason, R. Hutchinson, P. Kumar, L. Jones. 2025. Evidence-base for urban green-blue infrastructure to support insect diversity. *Urban Ecosystems*.
100. **Callaghan, C. T.**, C. Winnebald, B. Smith, B. M. Mason, and L. López-Hoffman. 2025. Citizen science as a valuable tool for environmental review. *Frontiers in Ecology and the Environment* 23(1): e2808.
99. Moon, K., S. Yates, **C. T. Callaghan**, and M. Thompson. 2024. The relational nature of citizen science. *People and Nature*.
98. Oh, R. R. Y., R. A. Fuller, B. Peters, A. J. Dean, N. A. Pachana, **C. T. Callaghan**, N. J. Sockhill, A. Bonn, and A. F. Suarez-Castro. 2024. Enhancing the health and wellbeing benefits of biodiversity citizen science. *Frontiers in Environmental Science* 12: 1444161.
97. Bowler, D. E., R. J. Boyd, **C. T. Callaghan**, R. A. Robinson, N. J. B. Isaac, and M. J. O. Pocock. 2024. Treating gaps and biases in biodiversity data as a missing data problem. *Biological Reviews*.
96. Sheard, K. K., T. Adriaens, D. E. Bowler, A. Büermann, **C. T. Callaghan**, E. C. M. Camprasse, S. Chowdhury, T. Engel, E. A. Finch, J. von Gönner, P.-Y., Hsing, P. Mikula, R. Y. R. Oh, B. Peters, S. S. Phartyal, M. J. O. Pocock, J. Wäldchen, and A. Bonn. 2024. Emerging technologies in citizen science and potential for insect monitoring. *Philosophical Transactions of the Royal Society B* 379: 20230106.
95. Chowdhury, S., S. Ahmed, S. Alam, **C. T. Callaghan**, P. Das, M. Di Marco, E. Di Minin, I. Jaric, M. M. Labi, M. Rokonzaman, U. Roll, V. Sbragaglia, A. Siddika, and A. Bonn. 2024. A protocol for harvesting biodiversity data from Facebook. *Conservation Biology*.
94. **Callaghan, C. T.**, L. Santini, R. Spake, and D. E. Bowler. 2024. Population abundance estimates in conservation and biodiversity research. *Trends in Ecology & Evolution* 39(6): 515-523.
93. Backstrom, L. J., **C. T. Callaghan**, N. P. Leseberg, C. Sanderson, R. A. Fuller, and J. E. M. Watson. 2024. Assessing adequacy of citizen science datasets for biodiversity monitoring. *Ecology and Evolution* 14(2): e10857.

92. **Callaghan, C. T.**, J. M. Chase, and D. J. McGlinn. 2024. Anthropogenic habitat modification causes nonlinear multiscale bird diversity declines. *Ecography*: e06759.
91. Wu, J., G. Chen, **C. T. Callaghan**, and Q. Ren. 2024. The effect of grain size on the relationship between urbanization and bird diversity. *Applied Geography* 162:103154.
90. Mitchell, B. A., S. B. Z. Gorta, **C. T. Callaghan**, R. T. Kingsford, and J. J. L. Rowley. 2024. Fighting the flames: site-specific effects determine species richness of Australian frogs after fire. *Wildlife Research* 51: WR22175.
89. Backstrom, L. J., N. P. Leseberg, **C. T. Callaghan**, C. Sanderson, R. A. Fuller, and J. E. M. Watson. 2024. Using citizen science to identify Australia's least known birds and inform conservation action. *Emu-Austral Ornithology* 124:199-205.
88. Chowdhury, S., R. A. Fuller, S. Ahmed, S. Alam, **C. T. Callaghan**, P. Das, R. A. Correia, M. Di Marco, E. Di Minin, I. Jarić, and others. 2023. Using social media records to inform conservation planning. *Conservation Biology*: e14161.
87. **Callaghan, C. T.**, L. Borda-de-Água, R. van Klink, R. Rozzi, and H. M. Pereira. 2023. Unveiling global species abundance distributions. *Nature Ecology & Evolution* 7:1600-1609.
86. Rowley, J. J. L., and **C. T. Callaghan**. 2023. Tracking the spread of the eastern dwarf tree frog (*Litoria fallax*) in Australia using citizen science. *Australian Journal of Zoology* 70(6):204-210.
85. Headland, T., D. Colombelli-Négrel, **C. T. Callaghan**, S. C. Sumasgutner, S. Kleindorfer, and P. Sumasgutner. 2023. Smaller Australian raptors have greater urban tolerance. *Scientific Reports* 13(1):11559.
84. Gorta, S. B. Z., **C. T. Callaghan**, F. Samonte, M. K. J. Ooi, T. Mesaglio, S. W. Laffan, and W. K. Cornwell. 2023. Multi-taxon biodiversity responses to the 2019-2020 Australian megafires. *Global Change Biology* 29(23):6727-6740.
83. Chowdhury, S., U. Aich, M. Rokonuzzaman, S. Alam, P. Das, A. Siddika, S. Ahmed, M. M. Labi, M. Di Marco, R. A. Fuller, and **C. T. Callaghan**. 2023. Increasing biodiversity knowledge through social media: A case study from tropical Bangladesh. *BioScience* 73(6):453-459.
82. Yang, M., **C. T. Callaghan**, and J. Wu. 2023. How do birds with different traits respond to urbanization? A phylogenetically controlled analysis based on citizen science data and a diverse urbanization measurement. *Landscape and Urban Planning* 237:104801.
81. **Callaghan, C. T.**, M. Thompson, A. Woods, A. G. B. Poore, D. E. Bowler, F. Samonte, J. J. L. Rowley, N. Roslan, R. T. Kingsford, W. K. Cornwell, and others. 2023. Experimental evidence that behavioral nudges in citizen science projects can improve biodiversity data. *BioScience* 73(4):302-313.
80. Thompson, M. M., K. Moon, A. Woods, J. J. L. Rowley, A. G. B. Poore, R. T. Kingsford, and **C. T. Callaghan**. 2023. Citizen science participant motivations and behaviour: Implications for biodiversity data coverage. *Biological Conservation* 282:110079.
79. Santini, L., J. A. Tobias, **C. Callaghan**, J. Gallego-Zamorano, and A. Benítez-López. 2023. Global patterns and predictors of avian population density. *Global Ecology and Biogeography* 32:1189-1204.
78. Ferretto, G., T. M. Glasby, A. G. B. Poore, **C. T. Callaghan**, E. A. Sinclair, J. Statton, G. A. Kendrick, and A. Vergés. 2023. Optimising the restoration of the threatened seagrass *Posidonia australis*: plant traits influence restoration success. *Restoration Ecology* 31:e13893.
77. Szabo, J. K., L. R. Forti, and **C. T. Callaghan**. 2023. Large biodiversity datasets conform to Benford's law: Implications for assessing sampling heterogeneity. *Biological Conservation*: 109982.
76. Spake, R., D. Bowler, **C. T. Callaghan**, S. A. Blowes, C. P. Doncaster, L. H. Antao, S. Nakagawa, R. McElreath, and J. M. Chase. 2023. Understanding 'it depends' in ecology: a

guide to hypothesising, visualising and interpreting statistical interactions. *Biological Reviews* 98:983-1002.

75. Benedetti, Y., **C. T. Callaghan**, I. Ulbrichová, A. Galanki, T. Kominos, F. Abou Zeid, J. D. Ibáñez-Álamo, M. Díaz, G. Marko, F. Morelli. 2023. EVI and NDVI as proxies for multifaceted avian diversity in urban areas. *Ecological Applications*: e2808.
74. Valdez, J., **C. T. Callaghan**, J. Junker, A. Purvis, S. L. L. Hill, and H. M. Pereira. 2023. The undetectability of global biodiversity trends using local species richness. *Ecography. Early View*: <https://doi.org/10.1111/ecog.06604>
73. Mesaglio, T., **C. T. Callaghan**, F. Samonte, S. B. Z. Gorta, and W. K. Cornwell. 2023. Recognition and completeness: two key metrics for judging the utility of citizen science data. *Frontiers in Ecology & the Environment. Early View*: <https://doi.org/10.1002/fee.2604>
72. **Callaghan, C. T.**, F. X. Palacio, Y. Benedetti, F. Morelli, and D. E. Bowler. 2023. Large-scale spatial variability in urban tolerance of birds. *Journal of Animal Ecology* 92:403-416.
71. Gorta, S. B. Z., **C. T. Callaghan**, R. D. Pedler, J. L. Read, R. S. West, and R. T. Kingsford. 2023. Habitat associations of dryland avian communities during an extended dry period. *Austral Ecology* 48:56-80.
70. Lee, J. S., **C. T. Callaghan**, and W. K. Cornwell. 2023. Using citizen science to measure recolonisation of birds after the Australian 2019-20 mega-fires. *Austral Ecology* 48:31-40.
69. **Callaghan, C. T.**, T. Mesaglio, J. S. Ascher, T. M. Brooks, A. A. Cabras, M. Chandler, W. K. Cornwell, I. C., Ríos-Málaver, E. Dankowicz, N. U. Dhiya'ulhaq, R. A. Fuller, A. N. Young. 2022. The benefits of contributing to the citizen science platform iNaturalist as an identifier. *PLoS Biology* 20(11): e3001843.
68. Palacio, F. X., **C. T. Callaghan**, P. Cardoso, E. J. Hudgins, M. A. Jarzyna, G. Ottaviani, F. Riva, C. Graco-Roza, V. Shirey, and S. Mammalo. 2022. A protocol for reproducible functional diversity analyses. *Ecography* 11:e06287.
67. Thompson, M. M., J. J. L. Rowley, A. G. B. Poore, and **C. T. Callaghan**. 2022. Citizen science reveals meteorological determinants of frog calling at a continental scale. *Diversity and Distributions* 28:2375-2387.
66. Spake, R., R. E. O'Dea, S. Nakagawa, C. P. Doncaster, M. Ryo, **C. T. Callaghan**, and J. M. Bullock. 2022. Improving quantitative synthesis to achieve generality in ecology. *Nature Ecology & Evolution* 6:1818-1828.
65. Liu, G., R. T. Kingsford, **C. T. Callaghan**, and J. J. L. Rowley. 2022. Anthropogenic habitat modification alters calling phenology of frogs. *Global Change Biology* 28:6194-6208.
64. Spake, R., M. P. Barajas-Barbosa, S. A. Blowes, D. E. Bowler, **C. T. Callaghan**, M. Garbowski, S. D. Jurburg, R. van Klink, L. Korrel, E. Ladouceur, R. Rozzi, D. S. Viana, W. Xu, and J. M. Chase. 2022. Detecting thresholds of ecological change in the Anthropocene. *Annual Reviews of Environment and Resources* 47:797-821.
63. Bowler, D. E., N. Bhandari, L. Repke, C. Beuthner, **C. T. Callaghan**, D. Eichenberg, K. Henle, R. Klenke, A. Richter, F. Jansen, H. Bruelheide, and A. Bonn. 2022. Decision-making of citizen scientists when recording species observations. *Scientific Reports* 12:11069.
62. Bowler, D. E., **C. T. Callaghan**, N. Bhandari, K. Henle, B. Barth, C. Koppitz, R. Klenke, M. Winter, F. Jansen, H. Bruelheide, and A. Bonn. 2022. Temporal trends in the spatial bias of species occurrence records. *Ecography* 8:e06219.
61. Segar, J., **C. T. Callaghan**, E. Ladouceur, J. N. Meyra, H. M. Pereira, A. Perino, and I. R. Staude. 2022. Urban conservation gardening in the decade of restoration. *Nature Sustainability* 5:649-656.
60. Roberts, C. J., A. Vergés, **C. T. Callaghan**, and A. G. B. Poore. 2022. Many cameras make light work: opportunistic photographs of rare species in iNaturalist complement structured surveys of reef fish to better understand species richness. *Biodiversity and Conservation* 31:1407-1425.

59. Bolt, M. H., **C. T. Callaghan**, A. G. B. Poore, A. Vergés, and C. J. Roberts. 2022. Using the background of fish photographs to quantify habitat composition in marine ecosystems. *Marine Ecology Progress Series* 688: 167-172.
58. **Callaghan, C. T.**, D. E. Bowler, S. A. Blowes, J. M. Chase, M. B. Lyons, H. M. Pereira. 2022. Quantifying effort needed to estimate species diversity from citizen science data. *Ecosphere* 13:e3966.
57. Schilling, H. T., A. Riley, A. C. Puckeridge, A. Milne-Muller, and **C. T. Callaghan**. 2022. Economic value of regional spearfishing competitions. *Fisheries Research* 250:106289.
56. Mansur, A. V., R. I. McDonald, B. Güneralp, H. Kim, J. A. Puppim de Oliveira, **C. T. Callaghan**, P. Hamel, J. J. Kuiper, M. Wolff, V. Liebelt, I. S. Martins, T. Elmqvist, and H. M. Pereira. 2022. Nature futures for the urban century: Integrating multiple values into urban management. *Environmental Science and Policy* 131:46-56.
55. Benedetti, Y., R. A. Fuller, **C. T. Callaghan**, and F. Morelli. 2022. Distribution and protection of avian specialization in Europe. *Global Ecology and Biogeography* 31:10-24.
54. **Callaghan, C. T.**, A. G. B. Poore, M. Hofmann, C. J. Roberts, and H. M. Pereira. 2021. Large-bodied birds are over-represented in unstructured citizen science data. *Scientific Reports* 11:19073.
53. Ferreto, G., T. M. Glasby, A. G. B. Poore, **C. T. Callaghan**, G. P. Housefield, M. Langley, E. A. Sinclair, J. Statton, G. A. Kendrick, and A. Vergés. 2021. Naturally-detached fragments of the endangered seagrass *Posidonia australis* collected by citizen scientists can be used to successfully restore fragmented meadows. *Biological Conservation*: 109308.
52. Gorta, S. B. Z., R. D. Pedler, R. T. Kingsford, and **C. T. Callaghan**. 2021. Avifaunal use of an artificial waterpoint in the Strzelecki Desert during an extended dry period. *Emu: Austral Ornithology* 121:354-359.
51. **Callaghan, C. T.**, D. E. Bowler, and H. M. Pereira. 2021. Thermal flexibility and a generalist life history promote urban affinity in butterflies. *Global Change Biology* 27:3532-3546.
50. **Callaghan, C. T.**, S. Nakagawa, and W. K. Cornwell. 2021. Global abundance estimates for 9,700 bird species. *Proceedings of the National Academy of Sciences* 118:e2023170118.
49. Liu, G., J. J. L. Rowley, R. T. Kingsford, and **C. T. Callaghan**. 2021. Species' traits drive amphibian tolerance to anthropogenic habitat modification. *Global Change Biology* 27:3120-3132.
48. **Callaghan, C. T.**, G. Liu, B. A. Mitchell, A. G. B. Poore, and J. J. L. Rowley. 2021. Urbanization negatively impacts frog diversity at continental, regional, and local scales. *Basic and Applied Ecology* 54:64-74.
47. **Callaghan, C. T.**, W. K. Cornwell, A. G. B. Poore, Y. Benedetti, and F. Morelli. 2021. Urban tolerance of birds changes throughout the full annual cycle. *Journal of Biogeography* 48:1503-1517.
46. Laitly, A., **C. T. Callaghan**, K. Delhey, and W. K. Cornwell. 2021. Is color data from citizen science photographs reliable for biodiversity research? *Ecology and Evolution* 11:4071-4083.
45. Mesaglio, T., and **C. T. Callaghan**. 2021. An overview of the history, current contributions, and future outlook of iNaturalist in Australia. *Wildlife Research* 48:289-303.
44. **Callaghan, C. T.**, J. E. Watson, W. K. Cornwell, M. B. Lyons, and R. A. Fuller. 2021. Conservation birding: a quantitative conceptual framework for prioritizing citizen science observations. *Biological Conservation* 253:108912.
43. **Callaghan, C. T.**, A. G. B. Poore, R. E. Major, W. K. Cornwell, J. H. Wilshire, and M. B. Lyons. 2021. How to build a biodiverse city: environmental determinants of bird diversity within and among 1581 cities. *Biodiversity and Conservation* 30:217-234.
42. **Callaghan, C. T.**, F. Sayol, Y. Benedetti, F. Morelli, and D. Sol. 2021. Validation of a globally-applicable method to measure urban tolerance of birds using citizen science data. *Ecological Indicators* 120:106905.

41. Kirchhoff, C., **C. T. Callaghan**, D. A. Keith, D. Indiarto, G. Taseski, M. K. J. Ooi, T. D. Le Breton, T. Mesaglio, R. T. Kingsford, and W. K. Cornwell. 2021. Rapidly mapping fire effects on biodiversity at a large-scale using citizen science. *Science of the Total Environment* 755:142348.
40. **Callaghan, C. T.**, A. G. B. Poore, T. Mesaglio, A. T. Moles, S. Nakagawa, C. Roberts, J. J. L. Rowley, A. Vergés, J. H. Wilshire, and W. K. Cornwell. 2021. Three frontiers for the future of biodiversity research using citizen science data. *BioScience* 71:55-63.
39. **Callaghan, C. T.**, and J. J. L. Rowley. 2021. A continental assessment of diurnality in frog calling behaviour. *Austral Ecology*. 46:65-71.
38. Rowley, J. J. L., **C. T. Callaghan**, and W. K. Cornwell. 2020. Widespread short-term persistence of frog species after the 2019-2020 bushfires in eastern Australia revealed by citizen science. *Conservation Science and Practice* 2:e287,
37. Weaver, S., **C. T. Callaghan**, and J. J. L. Rowley. 2020. Anuran accents: continental-scale citizen science data reveal spatial and temporal patterns of call variability. *Ecology and Evolution* 10:12115-12128.
36. **Callaghan, C. T.**, I. Ozeroff, C. Hitchcock, and M. Chandler. 2020. Capitalizing on opportunistic citizen science data to monitor urban biodiversity: A multi-taxa approach. *Biological Conservation* 251:109753.
35. Francis, R., K. J. Brandis, R. T. Kingsford, and **C. T. Callaghan**. 2020. Quantifying bird diversity at three sites of differing herbivore presence. *Journal of Ornithology* 161:1117-1127.
34. **Callaghan, C. T.**, Y. Benedetti, J. H. Wilshire, and F. Morelli. 2020. Avian trait specialization is negatively associated with urban tolerance. *Oikos* 129:1541-1551.
33. Morelli, F., Benedetti, Y., and **C. T. Callaghan**. 2020. Ecological specialization and population trends in European breeding birds. *Global Ecology and Conservation* 22:e00996.
32. Justyn, N. M., **C. T. Callaghan**, and G. E. Hill. 2020. Birds rarely hybridize: A citizen science approach to estimating rates of hybridization in the wild. *Evolution* 74:1216-1223.
31. **Callaghan, C. T.**, J. D. Roberts, A. G. B. Poore, R. Alford, H. Cogger, and J. J. L. Rowley. 2020. Citizen science data accurately predicts expert-derived species richness at a continental scale when sampling thresholds are met. *Biodiversity and Conservation* 29:1323-1337.
30. Rowley, J. J. L., and **C. T. Callaghan**. 2020. The FrogID dataset: expert-validated occurrence records of Australia's frogs collected by citizen scientists. *ZooKeys* 912:139-151.
29. Mitchell, B. A., **C. T. Callaghan**, and J. J. L. Rowley. 2020. Continental-scale citizen science data reveals no changes in acoustic responses of a widespread tree frog to an urbanisation gradient. *Journal of Urban Ecology* 6:juaa002.
28. **Callaghan, C.T.**, I. Benson, R. E. Major, J. M. Martin, T. Longden, and R. T. Kingsford. 2020. Birds are valuable: the case of vagrants. *Journal of Ecotourism* 19:82-92.
27. **Callaghan, C. T.**, R. E. Major, W. K. Cornwell, A. G. B. Poore, J. H. Wilshire, and M. B. Lyons. 2020. A continental measure of urbanness predicts avian response to local urbanization. *Ecography* 43:528-538.
26. **Callaghan, C. T.**, J. H. Wilshire, J. M. Martin, R. E. Major, M. B. Lyons, and R. T. Kingsford. 2020. The Greenspace Bird Calculator: a citizen-driven tool for monitoring avian biodiversity in urban greenspaces. *Australian Zoologist* 40:468-476.
25. **Callaghan, C. T.**, E. Kekeubata, J. Waneagea, M. Alabai, T. Esau, D. MacLaren, and R. E. Major. 2019. A collaborative bird survey of East Kwaio, Malaita, Solomon Islands. *Check List* 15:1119-1136.
24. Alabai, M., T. Esau, E. Kekeubata, J. Waneagea, D. MacLaren, R. E. Major, and **C. T. Callaghan**. 2019. First record of Solomons Nightjar *Eurostopodus nigripennis* for Malaita, with a description of its nest site. *Bulletin of the British Ornithologists' Club* 139:325-327.

23. **Callaghan, C.T.**, A. G. B. Poore, R. E. Major, J. J. L. Rowley, and W. K. Cornwell. 2019. Optimizing future biodiversity sampling by citizen scientists. *Proceedings of the Royal Society B* 286: 20191487.
22. **Callaghan, C. T.**, J. J. L. Rowley, W. K. Cornwell, A. G. B. Poore, and R. E. Major. 2019. Improving big citizen science data: Moving beyond haphazard sampling. *PLoS Biology* 17:e3000357.
21. **Callaghan, C. T.**, G. Bino, R. E. Major, J. M. Martin, M. B. Lyons, and R. T. Kingsford. 2019. Heterogeneous urban green areas are bird diversity hotspots: insights using continental-scale citizen science data. *Landscape Ecology* 34:1231-1246.
20. **Callaghan, C. T.**, R. E. Major, M. B. Lyons, J. M. Martin, J. H. Wilshire, R. T. Kingsford, and W. K. Cornwell. 2019. Using citizen science data to define and track restoration targets in urban areas. *Journal of Applied Ecology* 56:1998-2006.
19. Gorta, S. B. Z., J. A. Smith, J. D. Everett, R. T. Kingsford, W. K. Cornwell, I. M. Suthers, H. Epstein, R. McGovern, G. McLachlan, M. Roderick, L. Smith, D. Williams, and **C. T. Callaghan**. 2019. Pelagic citizen science data reveal declines of seabirds off south-eastern Australia. *Biological Conservation* 235:226-235.
18. Lyons, M. B., K. J. Brandis, N. J. Murray, J. H. Wilshire, J. A. McCann, R. T. Kingsford, and **C. T. Callaghan**. 2019. Monitoring large and complex wildlife aggregations with drones. *Methods in Ecology and Evolution* 10:1024-1035.
17. Rowley, J. J. L., **C. T. Callaghan**, T. Cutajar, C. Portway, K. Potter, S. Mahony, D. F. Trembath, P. Flemons, and A. Woods. 2019. FrogID: Citizen Scientists provide validated biodiversity data on frogs of Australia. *Herpetological Conservation and Biology* 14:155-170.
16. **Callaghan, C. T.**, R. E. Major, J. H. Wilshire, J. M. Martin, R. T. Kingsford, and W. K. Cornwell. 2019. Generalists are the most urban-tolerant of birds: a phylogenetically controlled analysis of ecological and life history traits using a novel continuous measure of bird responses to urbanization. *Oikos* 128:845-858.
15. **Callaghan, C. T.**, K. J. Brandis, M. B. Lyons, S. Ryall, and R. T. Kingsford. 2018. A comment on the limitations of UAVS in wildlife research – the example of colonial nesting waterbirds. *Journal of Avian Biology* 49:e01825.
14. **Callaghan, C. T.**, R. E. Major, M. B. Lyons, J. M. Martin, and R. T. Kingsford. 2018. The effects of local and landscape habitat attributes on bird diversity in urban greenspaces. *Ecosphere* 9:e02347.
13. **Callaghan, C. T.**, J. M. Martin, R. E. Major, and R. T. Kingsford. 2018. Avian monitoring – comparing structured and unstructured citizen science. *Wildlife Research* 45:176-184.
12. Lyons, M., K. Brandis, **C. Callaghan**, J. McCann, C. Mills, S. Ryall, and R. Kingsford. 2018. Bird interactions with drones, from individuals to large colonies. *Australian Field Ornithology* 35:51-56.
11. **Callaghan, C. T.**, J. M. Martin, R. T. Kingsford, and D. M. Brooks. 2018. Unnatural history: is a paradigm shift of natural history in 21st century ornithology needed? *Ibis* 160:475-480.
10. **Callaghan, C. T.**, M. Slater, R. E. Major, M. Morrison, J. M. Martin, and R. T. Kingsford. 2018. Travelling birds generate eco-travellers: The economic potential of vagrant birdwatching. *Human Dimensions of Wildlife* 23:71-82.
9. **Callaghan, C. T.**, and D. M. Brooks. 2017. History, current distribution, and status of Egyptian Goose (*Alopochen aegyptiaca*) in the contiguous United States. *The Southwestern Naturalist* 64:296-300.
8. **Callaghan, C. T.**, M. B. Lyons, J. M. Martin, R. E. Major, and R. T. Kingsford. 2017. Assessing the reliability of avian biodiversity measures of urban greenspaces using eBird citizen science data. *Avian Conservation and Ecology* 12:12.

7. **Callaghan, C. T.**, S. Ryall, and R. T. Kingsford. 2017. A probable Australian White Ibis *Threskionis moluccus* x Straw-necked Ibis *T. spinicollis* hybrid. *Australian Field Ornithology* 34:47-48.
6. **Callaghan, C. T.** 2017. 'Shadow-boxing' in a Northern Mockingbird (*Mimus polyglottos*). *Florida Field Naturalist* 45:21-23.
5. **Callaghan, C. T.** 2016. Pacific Golden-Plover (*Pluvialis fulva*) in Florida: a first state record. *Florida Field Naturalist* 44:169-174.
4. **Callaghan, C. T.**, and D. E. Gawlik. 2016. Diet and selectivity of the *Porphyrio porphyrio* (Purple Swamphen) in south Florida. *Southeastern Naturalist* 15(Special Issue 8):1-14.
3. **Callaghan, C. T.**, and D. M. Brooks. 2016. Ecology, Behavior, and Reproduction of Invasive Egyptian Geese (*Alopochen aegyptiaca*) in Texas. *Bulletin of the Texas Ornithological Society* 49:37-44.
2. Chastant, J. E., **C. T. Callaghan**, and D. T. King. 2016. Morphometric variation during chick development in interior Double-crested Cormorants (*Phalacrocorax auritus*). *Waterbirds* 39:260-267.
1. **Callaghan, C. T.**, and D. E. Gawlik. 2015. Efficacy of eBird data as an aid in conservation planning and monitoring. *Journal of Field Ornithology* 86:298-304.

BOOK CHAPTERS

5. **Callaghan, C. T.**, and D. M. Brooks. 2020. Using citizen science to study exotic and invasive birds. In Downs, C. T. and Hart, L. A. (eds), Global trends and impacts of alien invasive birds. CABI, Wallingford, UK, pp. 363-368.
4. Huysentruyt, F., **C. T. Callaghan**, D. Strubbe, K. Winston, T. Adriaens, and D. M. Brooks. 2020. Egyptian Goose (*Alopochen aegyptiaca* Linnaeus, 1766). In Downs, C. T. and Hart, L. A. (eds), Global trends and impacts of alien invasive birds. CABI, Wallingford, UK, pp. 206-212.
3. Pranty, B., and **C. T. Callaghan**. 2020. Gray-headed Swamphen (*Porphyrio poliocephalus* Latham, 1801). In Downs, C. T. and Hart, L. A. (eds), Global trends and impacts of alien invasive birds. CABI, Wallingford, UK, pp. 243-247.
2. **Callaghan, C. T.**, B. Pranty, P. Pyle, and M. A. Patten. 2017. Gray-headed Swamphen (*Porphyrio poliocephalus*), The Birds of North America (P. G. Rodewald, Ed.). Ithaca: Cornell Lab of Ornithology; Retrieved from the Birds of North America: <https://birdsna.org/Species-Account/bna/species/purwa3> DOI: 10.2173/bna.purwa3.01.
1. **Callaghan, C. T.**, D. M. Brooks, and P. Pyle. 2017. Egyptian Goose (*Alopochen aegyptiaca*), The Birds of North America (P. G. Rodewald, Ed.). Ithaca: Cornell Lab of Ornithology; Retrieved from the Birds of North America: <https://birdsna.org/Species-Account/bna/species/egygo> DOI: 10.2173/bna.egygo.01.

OUTREACH DOCUMENTS (UF/IFAS EDIS)

4. McDonald, B. W., B. M. Mason, C. T. Callaghan, M. A. Lashley, and C. Baruzzi. 2025. Camera trapping for wildlife. <https://doi.org/10.32473/edis-UW530-2025>
3. Bahder, B., B. M. Mason, and **C. T. Callaghan**. 2024. Heralding Hoppers: A Guide to Uncovering Leafhoppers, Planthoppers, and Treehoppers with iNaturalist. <https://doi.org/10.32473/edis-UW525-2024>
2. **Callaghan, C. T.**, B. M. Mason, and J. Montes de Oca. 2024. Magnificent Moths: A Guide to Begin "Mothing" and Contributing your Observations to iNaturalist. <https://doi.org/10.32473/edis-UW518-2024>
1. Mason, B. M., T. Smith, and **C. T. Callaghan**. 2024. Herping Adventures: A Guide to Exploring and Documenting Reptiles and Amphibians with iNaturalist. <https://doi.org/10.32473/edis-UW517-2024>

TECHNICAL REPORTS

1. **Callaghan, C. T.**, and D. E. Gawlik. 2014. Diet of the Purple Swamphen in south Florida. Final Report to Florida Fish and Wildlife Conservation Commission. Contract No. 13254.

GRANTS, FELLOWSHIPS, AND AWARDS

GRANTS

- United States Geological Survey, Department of Interior (\$153,715 USD) 2025-present
- *Project title:* Technical assistance to integrate multiple datasets on imperiled sea turtles to improve strategic management
 - *Role:* **Lead-PI**
- South Florida Water Management District (\$149,991 USD) 2025-present
- *Project title:* Lake Okeechobee Wading Bird Foraging and Performance Metric Development
 - *Role:* **Lead-PI**
- South Florida Water Management District (\$149,996 USD) 2025-present
- *Project title:* Lake Okeechobee Submerged Aquatic Vegetation Model and Performance Metric Development
 - *Role:* **Lead-PI**
- United States Geological Survey, Department of Interior (\$258,400 USD) 2025-present
- *Project title:* Harnessing diverse datasets to understand the past, present, and future of species' ranges
 - *Role:* **Co-PI**, along with Brett Scheffers (Lead)
- Army Corps of Engineers (\$653,000 USD) 2024-present
- *Project title:* Wading Bird Colony, Location, Size, Timing, and Reproductive Success in Lake Okeechobee
 - *Role:* **Lead-PI**, along with David Serrano (Co)
- National Wild Turkey Federation (\$46,900 USD) 2023-present
- *Project title:* Integrating data sources to quantify wild turkey abundance now and in the future
 - *Role:* **Lead-PI**, along with Carolina Baruzzi (Co) and Marcus Lashley (Co)
- Department of Agriculture, Water & The Environment; Wildlife and Habitat Bushfire Recovery Program (~\$700,000 AUD) 2020-2021
- *Project title:* Building capacity for resilience & recovery of threatened ecological communities
 - *Role:* **Co-PI**, along with M. Ooi (Lead), W. Cornwell (Co), A. Fisher (Co), D. Keith (Co), R. Kingsford (Co), M. Lyons (Co), M. Munoz-Rojaz (Co), and J. Rowley (Co)
- New South Wales Environmental Trust Research Grant (~\$166,000 AUD) 2020-2022
- *Project title:* Optimizing biodiversity sampling by citizen scientists
 - *Role:* **Lead-PI**, along with R. Major (Co), R. Kingsford (Co), J. Rowley (Co), and A. Woods (Co)
- Sea World Research & Rescue Foundation Research Grant (~\$22,000 AUD) 2018-2020

- *Project title:* Snapping fish, catching data: exploring the potential of recreational scuba diving photographs to assess the composition of fish communities and their associated habitat.
- *Role:* **Co-PI**, along with A. Verges (Lead), A. Poore (Co), and C. Roberts (Co)

Australian Wildlife Society Postgraduate Research Grant (\$5,000 AUD) 2017

- *Project title:* Bird conservation in the Blue Mountains World Heritage Area – response to urbanisation?
- *Role:* **Lead PI** – solo application for postgraduate funding

FELLOWSHIPS

Marie Skłodowska-Curie Actions Individual Fellowship (€174,806.40) 2020-2022

UNSW Sydney UIPA (postgraduate) stipend (~\$94,500 AUD) 2016-2020

OTHER AWARDS

British Ornithologists Union ECR travel grant to attend IOC2018 -- \$900 2018

Centre for Ecosystem Science Postgraduate Research Forum presentation award -- \$250 2018

Ecological Society of Australia Outstanding Speed Talk -- \$440 2017

Medibank International Conference and Fieldwork Grant -- \$2000 2017

Stuart Leslie Bird Conference Travel Award -- \$500 2017

Centre for Ecosystem Science Postgraduate Research Forum presentation award -- \$250 2017

FAU Senior Mentor award in mentoring undergraduate researchers -- \$500 2015

FAU GPSA travel award, AFO/WOS/SCO Annual Conference -- \$900 2015

GPSA Research Day First Place Award in Environmental and Geological Sciences -- \$100 2015

WOS travel award, Wilson Ornithological Society annual meeting -- \$300 2013

Canisius College Environmental Science Award for Excellence in Research -- N/A 2013

Canisius College Environmental Science Award for Academic Excellence -- N/A 2013

Canisius College Ignation Undergraduate Research Scholarship Recipient -- \$2,400 2012-2013

TEACHING EXPERIENCE

WIS4934/WIS6934 (Community Science for Ecologists) Spring 2025

University of Florida, Gainesville, United States

- Co-instructor of a cross-college course with Zoology on the theory and practice behind the field of citizen/community science.

Demonstrator, BIOS3601 (Advanced Field Biology) February 2019

UNSW Sydney, Sydney, Australia

- Assisted as staff in a field course for undergraduate students focused on field ecology and biology.

Instructor of Record, BIO431 (Avian Systematics and Biogeography) June – October 2018

Charles Sturt University, Albury, Australia

- Coordinated a graduate-level course in avian systematics, taxonomy, biogeography, phylogeny.

Guest Lecture, BIOS6671 (Conservation Biology) October 2018, 2019, 2020

UNSW Sydney, Sydney, Australia

- Gave a lecture to this third-year course on urban bird conservation and ecology

Guest Lecture, BIOS1301 (Ecology & Sustainability) April 2018, April 2019

UNSW Sydney, Sydney, Australia

- Gave a lecture to this first-year course on land degradation, land management, and biodiversity offsets.

Demonstrator, BIOS1301 (Ecology & Sustainability)

February – May 2018

UNSW Sydney, Sydney, Australia

- Assisted in monitoring and providing an introductory class to ecology, including lab-based and field based practical assignments.

Demonstrator, BIOS1101 (Evolutionary & Functional Biology)

August – October 2017

UNSW Sydney, Sydney, Australia

- Assisted in monitoring and providing an introductory evolutionary and functional biology course to first-year students.

Primary Instructor, Introduction to Research

Fall 2015 – Spring 2016

Florida Atlantic University High School, Boca Raton, Florida

- Designed and implemented a research course intended for 9th grade students which provided an introduction to research methods, as part of a STEM program.

Graduate Teaching Assistant

Fall 2013, Spring 2014, Spring 2015, Summer 2015

Florida Atlantic University, Boca Raton, Florida

- Primary instructor of Biodiversity and Bioprinciples lab for undergraduate students. Responsible for evaluating and grading quizzes, assignments, and lab-practicals.

Undergraduate Teaching Assistant

Spring 2013

Canisius College, Buffalo, New York

- Assisted professor with laboratory set-up and demonstration in Ornithology. Taught bird identification lectures as part of the lab. Provided assistance on homework and exams to students outside of class time.

PROFESSIONAL EXPERIENCE

Scientific Technical Officer

2018-2019

Australian Museum Research Institute

- Supervisor: Dr. Jodi Rowley
- Conducting statistical analyses and providing oversight on design and implementation of a national citizen science FrogID app

Research Associate

2015-2016

Florida Atlantic University, Boca Raton, Florida

- Supervisor: Dr. Dale E. Gawlik
- Conducting statistical analyses and modeling in order to link a global hydrology dataset to breeding waterbirds.

Graduate Research Assistant

2013-2015

Florida Atlantic University, Boca Raton, Florida

- Supervisor: Dr. Dale E. Gawlik
- Conducted a diet analysis of Purple Swamphen in south Florida and conducted vegetation surveys in order to demonstrate selectivity of the swamphen. Also developed a conceptual framework in which to prioritize nonnative avian species' dispersal from urban to natural habitat.

Undergraduate Research Assistant

2010-2013

Canisius College, Buffalo, New York

- Supervisor: Dr. Sara R. Morris
- Studied migrant flight call behavior in wood-warblers: Investigated the effect of sound cues on flight calling behavior in wood-warbler species.

U.S. Fish and Wildlife Service Biological Science Technician

2011-2013

Iroquois National Wildlife Refuge, Alabama, New York

- Gained experience in a variety of biological facets; bathymetry, bird surveys, migratory bird banding, refuge management practices, invasive species surveys, managing high school students, plant surveys, etc.

INVITED PRESENTATIONS

20. Callaghan, C. T. Kew Royal Botanic Gardens, Kew Gardens Science Seminar Series – April 14th, 2025; Title: *The human factor in biodiversity monitoring*.
19. Callaghan, C. T. National Oceanic and Atmospheric Administration (NOAA) Library Seminars—Citizen Science Webinar Series – February 19th, 2025; Title: *Using citizen science in biodiversity research and policy*.
18. Callaghan, C. T. McGuire Center for Lepidoptera & Biodiversity, Florida Museum of Natural History, University of Florida – February 11th, 2025; Title: *From Local Observations to Global Impact: Leveraging Participatory Science for Biodiversity Research*.
17. Callaghan, C. T. Archbold Biological Station Seminar Series – January 23rd, 2025; Title: *Leveraging large-scale participatory science data for local and global-scale biodiversity research*.
16. Callaghan, C. T. Department of Biological Sciences, University of Alberta – November 1st, 2024; Title: *Envisioning the future of biodiversity research with citizen science*.
15. Callaghan, C. T. Fish, Wildlife, and Conservation Biology, Warner College of Natural Resources, Colorado State University – August 23rd, 2024; Title: *Advancing biodiversity research through public engagement*.
14. Callaghan, C. T. Plenary Panel – *Building partnerships for impact*, Florida Meeting for Advancing Participatory Sciences – April 12th, 2024.
13. Callaghan, C. T. Department of Evolution, Ecology and Organismal Biology, The Ohio State University – March 21st, 2024; Title: *Leveraging people power for biodiversity research*.
12. Callaghan, C. T. Broward College Science Seminars, Environmental Science Department, Broward College – March 15th, 2024; Title: *Integrating people and data to advance our understanding of global ecology*.
11. Callaghan, C. T. Department of Biological Sciences, Florida International University – January 18th, 2024; Title: *Envisioning future contributions of citizen science to biodiversity research through an interdisciplinary lens*.
10. Callaghan, C. T. Department of Biology, University of Miami – October 24th, 2023; Title: *Exploring the future of biodiversity research using big data*.
9. Callaghan, C. T. Department of Biological Sciences, California State University, Los Angeles, and Urban Ecology Center; Los Angeles, California – September 14, 2023. Title: *Leveraging participatory science data to advance understanding of urban biodiversity*.
8. Callaghan, C. T. College of Forestry, Wildlife and Environment, Auburn University – March 21st, 2023; Title: *Beyond backyard birding: The power of citizen science to advance our understanding of urban biodiversity*.

7. Callaghan, C. T. Northeastern Natural History Conference 2021 – April 18th, 2021; Title: *A framework for dynamic biodiversity sampling with citizen science.*
6. Callaghan, C. T. Trees, People, and the Built Environment, International Urban Trees Research Conference – February 3rd, 2021; Title: *How to make an urban greenspace attractive to biodiversity.*
5. Callaghan, C. T. Australian Museum/Royal Botanic Gardens ECR Forum – February 27th, 2019; Title: *Measuring the ‘urbanness’ of bird species and communities.*
4. Callaghan, C. T. University of Wollongong, Centre for Sustainable Ecosystems Solutions Seminar Series – September 6th, 2018; Title: *Macroecological responses of birds to urbanization.*
3. Callaghan, C. T. Applied Aspects of Avian Urban Ecology – An International Initiative – August 20th, 2018; Title: *Beyond backyard birding: birds, big data, and bright lights.*
2. Callaghan, C. T. UNSW Sydney, School of Biological, Earth and Environmental Sciences Seminar Series – May 4th, 2018; Title: *Using a global dataset to understand avian responses to urbanization at local and global scales.*
1. Callaghan, C. T. Australian Museum Research Institute Seminar Series – January 24th, 2018; Title: *Quantifying the ecological value of citizen science data for urban greenspaces.*

CONFERENCE PRESENTATIONS

59. Barratt Heitmann, J., B. M. Mason, and C. T. Callaghan. 2025. Contributions of geographically isolated wetlands to bird biodiversity across the conterminous United States. *The 2025 Annual Meeting of the Ecological Society of America*; Baltimore, Maryland. August 10-15th, 2025. (Oral presentation)
58. Mason, B. M., and C. T. Callaghan. 2025. A comprehensive literature review on the use of iNaturalist data in scientific research. *The 2025 Annual Meeting of the Ecological Society of America*; Baltimore, Maryland. August 10-15th, 2025. (Oral presentation)
57. Marquis, M. K., B. M. Mason, and C. T. Callaghan. 2025. Changes in insect pollinator phenology across a gradient of anthropogenic change in Florida. *8th Annual South Florida Student & Post-Doc Research Symposium*; Everglades Research and Education Center, Belle Glade, Florida. July 25, 2025. (Oral presentation)
56. Fussell Persaud, C. A., J. R. Barratt Heitmann, M. Zuliani, B. M. Mason, J. Mulling, and C. T. Callaghan. 2025. Assessing the potential of eBird data to track changes in abundance of wading birds in South Florida. *8th Annual South Florida Student & Post-Doc Research Symposium*; Everglades Research and Education Center, Belle Glade, Florida. July 25, 2025. (Poster presentation)
55. Swigris, A., and C. T. Callaghan. 2025. Investigating trophic dynamics in Lake Okeechobee’s pelagic zone. *8th Annual South Florida Student & Post-Doc Research Symposium*; Everglades Research and Education Center, Belle Glade, Florida. July 25, 2025. (Oral presentation)
54. Hoskins, L., and C. T. Callaghan. 2025. Investigating the correlation between avian biodiversity during migration and overwintering in urban greenspaces. *8th Annual South Florida Student & Post-Doc Research Symposium*; Everglades Research and Education Center, Belle Glade, Florida. July 25, 2025. (Poster presentation)
53. Mulling, J., B. M. Mason, M. Zuliani, C. A. F. Persaud, and C. T. Callaghan. 2025. Assessing nest productivity and success of wading bird breeding colonies in Lake Okeechobee. *8th Annual South Florida Student & Post-Doc Research Symposium*; Everglades Research and Education Center, Belle Glade, Florida. July 25, 2025. (Poster presentation)
52. Lowe, S. K., B. M. Mason, N. A. Morales, and C. T. Callaghan. 2025. Participation intensity influences motivations for participating in iNaturalist. *Conference for Advancing*

- Participatory Sciences (CAPS)*; Portland, Oregon. May 27-30, 2025. (Oral presentation)
51. Hoskins, L., and C. T. Callaghan. 2025. Investigating the correlation between avian biodiversity during migration and overwintering in urban greenspaces. *Florida Cooperative Fish and Wildlife Research Unit Annual Coordinating Committee Meeting*; Gainesville, Florida. May 15th, 2025. (Poster presentation)
 50. Lowe, S. K., B. M. Mason, N. A. Morales and C. T. Callaghan. 2025. Participatory citizen science data complements agency-collected data for species inventories of state parks. *Florida Cooperative Fish and Wildlife Research Unit Annual Coordinating Committee Meeting*; Gainesville, Florida. May 15th, 2025. (Poster presentation)
 49. Hoskins, L., and C. T. Callaghan. 2025. Investigating the correlation between avian biodiversity during migration and overwintering in urban greenspaces. *The Florida Chapter of The Wildlife Society Spring Meeting – “From Wetlands to Pine Forests: Conserving Florida’s Diverse Habitats for Future Generations”*; Tallahassee, Florida, April 16-18, 2025. (Poster presentation)
 48. Marquis, M. K., B. M. Mason, and C. T. Callaghan. 2025. Changes in insect pollinator phenology across an urban gradient in Florida. *The Florida Chapter of The Wildlife Society Spring Meeting – “From Wetlands to Pine Forests: Conserving Florida’s Diverse Habitats for Future Generations”*; Tallahassee, Florida, April 16-18, 2025. (Oral presentation)
 47. Swigris, A., and C. T. Callaghan. 2025. Investigating trophic dynamics in Lake Okeechobee’s pelagic zone. *The Florida Chapter of The Wildlife Society Spring Meeting – “From Wetlands to Pine Forests: Conserving Florida’s Diverse Habitats for Future Generations”*; Tallahassee, Florida, April 16-18, 2025. (Oral presentation)
 46. Lilkendey, T., B. M. Mason, N. Pernat, J. S. Francis, and C. T. Callaghan. 2025. Drivers of pollinator diversity in urban greenspaces. *The Florida Chapter of The Wildlife Society Spring Meeting – “From Wetlands to Pine Forests: Conserving Florida’s Diverse Habitats for Future Generations”*; Tallahassee, Florida, April 16-18, 2025. (Poster presentation)
 45. Gallivan, L. X., M. Zuliani, B. M. Mason, and C. T. Callaghan. 2025. Citizen science’s role in data monitoring of non-native herpetofauna in Florida. *The Florida Chapter of The Wildlife Society Spring Meeting – “From Wetlands to Pine Forests: Conserving Florida’s Diverse Habitats for Future Generations”*; Tallahassee, Florida, April 16-18, 2025. (Poster presentation)
 44. Barratt Heitmann, J., B. M. Mason, and C. T. Callaghan. 2025. Land cover and area influence bird biodiversity in geographically isolated wetlands. *The Florida Chapter of The Wildlife Society Spring Meeting – “From Wetlands to Pine Forests: Conserving Florida’s Diverse Habitats for Future Generations”*; Tallahassee, Florida, April 16-18, 2025. (Oral presentation)
 43. Lowe, S. K., B. M. Mason, and C. T. Callaghan. 2025. Citizen science data complements state agency data to fill gaps in species inventories of state parks. *The Florida Chapter of The Wildlife Society Spring Meeting – “From Wetlands to Pine Forests: Conserving Florida’s Diverse Habitats for Future Generations”*; Tallahassee, Florida, April 16-18, 2025. (Oral presentation)
 42. Fussell Persaud, C. A., J. R. Barratt Heitmann, M. Zuliani, B. M. Mason, J. Mulling, and C. T. Callaghan. 2025. Assessing the potential of eBird data to track changes in abundance of wading birds in South Florida. *The Florida Chapter of The Wildlife Society Spring Meeting – “From Wetlands to Pine Forests: Conserving Florida’s Diverse Habitats for Future Generations”*; Tallahassee, Florida, April 16-18, 2025. (Poster presentation)
 41. Lilkendey, T., B. M. Mason, J. S. Francis, and C. T. Callaghan. 2025. Using citizen science to test how urban greenspaces can support thriving plant-pollinator communities. *Florida Native Plant Society 43rd Annual Conference*; Gainesville, Florida. April 2-6. (Poster presentation)

- presentation)
40. Sibiya, M. P., B. M. Mason, C. Baruzzi, M. A. Lashley, and C. T. Callaghan. 2025. *The role of habitat connectivity in wild turkey biology and ecological attributes*. National Wild Turkey Federation Convention; Nashville, Tennessee. February 13-14, 2025. (Oral presentation)
 39. Miguez, N. U., B. M. Mason, H. Cao, J. Qiu, and C. T. Callaghan. 2024. *Exploring the synergies between biodiversity and human use of urban greenspaces*. ACES (A Community on Ecosystem Services); Austin, Texas. December 9-12, 2024. (Oral presentation – invited symposium contribution)
 38. Mason, B. M. E., C. Winnebald, B. Smith, L. López-Hoffman, and C. T. Callaghan. 2024. *Citizen science as an approach for valuation of biodiversity in Environmental Impact Statements*. ACES (A Community on Ecosystem Services); Austin, Texas. December 9-12, 2024. (Oral presentation – invited symposium contribution)
 37. Miguez, N. U., B. M. Mason, and C. T. Callaghan. 2024. *Exploring the synergies between biodiversity and human use of urban greenspaces*. Broward College Science Seminars, Environmental Science Department, Broward College; Davie, Florida. November 22, 2024. (Invited departmental seminar)
 36. Mason, B. M. E., and C. T. Callaghan. 2024. *Citizen science as an approach for valuation of biodiversity in environmental impact statements*. Broward College Science Seminars, Environmental Science Department, Broward College; Davie, Florida. November 22, 2024. (Invited departmental seminar)
 35. Barratt Heitmann, J. G., B. M. Mason, and C. T. Callaghan. 2024. *Land cover and area influence bird biodiversity in geographically isolated wetlands*. Florida Ornithological Society 2024 Annual Meeting; Palatka, Florida. November 16, 2024. (Oral presentation)
 34. Lowe, S. G., B. M. Mason, and C. T. Callaghan. 2024. *Citizen science data complements state agency data to fill gaps in species inventories of state parks*. School of Natural Resources and the Environment Annual Research Symposium; Gainesville, Florida. October 15, 2024. (Poster presentation)
 33. Cao, H. G., C. T. Callaghan, and J. Qiu. 2024. *Accessibility inequity of Cultural Ecosystem Services in Urban Greenspaces*. School of Natural Resources and the Environment Annual Research Symposium; Gainesville, Florida. October 15, 2024. (Poster presentation)
 32. Lowe, S. G., B. M. Mason, and C. T. Callaghan. 2024. *Assessing the complementarity of citizen-science data and state wildlife agency data for species inventories in Wildlife Management Areas*. Florida Cooperative Fish and Wildlife Research Unit Annual Coordinating Committee Meeting; Gainesville, Florida. April 23, 2024. (Poster presentation)
 31. Barratt Heitmann, J. G., B. M. Mason, and C. T. Callaghan. 2024. *Bird biodiversity in isolated wetlands of the United States is impacted by wetland characteristics and anthropogenic land cover*. Florida Cooperative Fish and Wildlife Research Unit Annual Coordinating Committee Meeting; Gainesville, Florida. April 23, 2024. (Poster presentation)
 30. Cao, H., N. G. Miguez, B. M. Mason, C. T. Callaghan, and J. Qiu. 2024. *Urban greenspaces, their landscape elements, and cultural ecosystem services: A study based on social media data and machine learning approaches*. International Association of Landscape Ecology North America Annual Meeting; Oklahoma City, Oklahoma. April 1-5, 2024. (Poster presentation)
 29. Lowe, S. G., B. M. Mason, N. Morales, and C. T. Callaghan. 2024. *Understanding how motivations for using iNaturalist change over time*. Florida Meeting for Advancing Participatory Sciences; Sarasota, Florida. April 12, 2024. (Oral presentation)
 28. Mason, B. M. E., and C. T. Callaghan. 2024. *Current applications and future potential of citizen science data*. The Florida Chapter of The Wildlife Society Spring Meeting – *Restoring Balance: Integrating Invasive Species Management and Native Wildlife Conservation*; Cape Coral, Florida. April 24-26, 2024. (Oral presentation)

27. Barratt Heitmann, J. G., B. M. Mason, and C. T. Callaghan. 2024. *Bird biodiversity in isolated wetlands of the United States is impacted by wetland characteristics and anthropogenic land cover*. Forested Wetlands of the Upper Estuary by the S.C. Sea Grant Consortium; Charleston, South Carolina. March 5-7, 2024. (Poster presentation)
26. Roslan, N., C. T. Callaghan, and M. Thompson. 2024. *Putting frogs on the map: how can we gather FrogID citizen science data across a continent to better understand Australian frogs?* 10th World Congress of Herpetology; Sarawak, Borneo. August 5-9, 2024. (Oral presentation)
25. Chowdhury, S., S. Ahmed, S. Alam, M. Bohm, C. T. Callaghan, S. U. Chowdhury,, A. Bonn. 2024. *Using social media records to inform conservation planning*. ECCB 2024 – 7th European Congress of Conservation Biology; Bologna, Italy. June 17-21, 2024. (Oral presentation)
24. Headland, T., D. Colombelli-Négrel, C. T. Callaghan, S. Sumasgutner, S. Kleindorfer, and P. Sumasgutner. 2023. *Smaller Australian raptors have greater urban tolerance*. Australasian Ornithological Conference; Brisbane, Australia. November 28-30, 2023. (Oral presentation)
23. Crawford, N. U., N. G. Miguez, and C. T. Callaghan. 2023. *Mapping urban greenspaces in Broward County, Florida*. The Miami Dade College School of Science STEM and Interdisciplinary Undergraduate Research Symposium; Miami, Florida. October 21, 2023. (Poster presentation)
22. Miguez, N. G. U., B. M. Mason, J. Qiu, and C. T. Callaghan. 2023. *Quantifying the synergies between human and biodiversity utility in urban greenspaces*. University of Florida's 2023 Fall Undergraduate Research Symposium; Gainesville, Florida. September 19, 2023. (Poster presentation)
21. Callaghan, C. T., L. Borda-de-Água, R. van Klink, R. Rozzi, and H. M. Pereira. 2023. *Unveiling the global distribution of life on earth*. The 52nd annual meeting of the Ecological Society of Germany, Austria and Switzerland, Leipzig, Germany. *Invited Oral Presentation*.
20. Callaghan, C. T., L. Borda-de-Água, R. van Klink, R. Rozzi, and H. M. Pereira. 2023. *Unveiling the global distribution of life on earth*. The 2023 Annual Meeting of the Ecological Society of America, Portland, Oregon. *Oral Presentation*.
19. Lee, J., Callaghan, C. T., and Cornwell, W. 2020. *Using citizen science and trait data to measure recolonization of birds after Australian 2019-20 megafire*. Ecological Society of Australia virtual conference. *Poster Presentation*
18. Thompson, M., Callaghan, C. T., Rowley, J. J. L. 2020. *What signals time to breed? Citizen science reveals exogenous influences to frog calling across Australia*. Ecological Society of Australia virtual conference. *Oral Presentation*.
17. Callaghan, C. T., Nakagawa, S., and Cornwell, W. 2020. *Estimating global population size for 10,000 birds*. International Statistical Ecology Conference (vISEC) virtual conference. *Oral Presentation*
16. Callaghan, C. T. 2019. *Tracking biodiversity changes by integrating big data: an example using bird responses to urbanization*. International Congress on Conservation Biology (ICCB) 2019, Kuala Lumpur, Malaysia. *Oral Presentation*.
15. Callaghan, C. T. 2019. *Deriving and applying a continuous measure of urban tolerance for assessing species adaptations and community changes in urban environments*. Australasian Ornithological Conference, Darwin, Northern Territory, Australia. *Oral Presentation*.
14. Rowley, J. L. L., C. T. Callaghan, T. Cutajar, C. Portway, and S. Mahony. 2019. *FrogID: citizen scientists provide validated biodiversity data on Australia's frogs*. Australian Society of Herpetologists, Kindilan, Queensland. *Oral Presentation*.
13. Mitchell, B. A., C. T. Callaghan, and J. L. L. Rowley. 2019. *Using large-scale citizen science data to examine acoustic responses of frogs to anthropogenic disturbance*. Australian Society of Herpetologists, Kindilan, Queensland. *Poster Presentation*.

12. Callaghan, C. T., R. E. Major, M. B. Lyons, J. M. Martin, and R. T. Kingsford. 2018. A global analysis of the effects of local and landscape habitat attributes in urban greenspaces. International Ornithological Congress, Vancouver, British Colombia, Canada. *Oral Presentation*.
11. Callaghan, C. T., M. B. Lyons, K. J. Brandis, and R. T. Kingsford. 2018. Assisted monitoring of large wading bird colonies using unmanned aerial vehicles. Waterbird Society, Vancouver, British Colombia, Canada. *Oral Presentation*.
10. Callaghan, C. T., M. Slater, R. E. Major, M. Morrison, J. M. Martin, and R. T. Kingsford. 2017. A bird in the bush is worth \$223,851 in the hand. Ecological Society of Australia EcoTAS Conference, Pokolbin, NSW, Australia. *Oral Presentation and Poster Presentation*.
8. Callaghan, C. T., J. M., Martin, R. E. Major, and R. T. Kingsford. 2017. Citizen Science adds ecological value in urban greenspaces. Australasian Ornithological Conference, Geelong, Victoria, Australia. *Oral Presentation*.
8. Callaghan, C. T., K. M. Conlan, and D. M. Brooks. 2016. Ecology, Behavior, and Reproduction of Invasive Egyptian Geese (*Alopochen aegyptiaca*) in Texas. North American Ornithological Conference, Washington D. C., United States. *Poster Presentation*.
7. Callaghan, C. T. 2015. Bridging the gap between birding and science. Audubon Society of the Everglades, West Palm Beach, FL. *Oral Presentation*.
6. Callaghan, C. T., and D. E. Gawlik. 2015. Invasion trajectories of nonnative avian species in Florida. Association of Field Ornithologists, Wilson Ornithological Society, and Society of Canadian Ornithologists Annual Meeting, Wolfville, Nova Scotia, Canada. *Oral Presentation*.
5. Callaghan, C. T., and D. E. Gawlik. 2015. The diet and selectivity of the Purple Swamphen in south Florida. Greater Everglades Ecosystem Restoration Conference, Coral Springs, FL. *Oral Presentation*.
4. Callaghan, C. T., and D. E. Gawlik. 2015. The diet and selectivity of the Purple Swamphen in south Florida. GPSA Research Day, Florida Atlantic University, Boca Raton, FL. *Poster Presentation*.
3. Callaghan, C. T., D. E. Gawlik, and J. Eckles. 2015. The diet and selectivity of the Purple Swamphen in south Florida. A.R.M. Loxahatchee National Wildlife Refuge Science Workshop, West Palm Beach, FL. *Poster Presentation*.
2. Calle, L., C. T. Callaghan, J. Klassen, M. Denton, and P. Klarman. 2014. A Multi-criteria decision analysis tool for resource prioritization. The Wildlife Society of Florida Spring Conference, Safety Harbor, FL. *Breakout Session*.
1. Callaghan, C. T., S. R. Morris. 2013. Latency in Magnolia Warbler flight calling. Wilson Ornithological Society Annual Conference, Williamsburg, VA. *Oral Presentation*.

PROFESSIONAL SERVICE

REVIEWING

Have reviewed >80 manuscripts for 58 different journals: *Austral Ecology*, *Australian Field Ornithology*, *Australian Journal of Zoology*, *Basic and Applied Ecology*, *Biological Conservation*, *Biotropica*, *Biodiversity and Conservation*, *Citizen Science: Theory and Practice*, *Conservation Biology*, *Conservation Science and Practice*, *Ecography*, *Ecological Applications*, *Ecological Indicators*, *Ecological Informatics*, *Ecological Solutions and Evidence*, *Ecology*, *Ecology and Evolution*, *Ecology and Society*, *Ecology Letters*, *Ecosphere*, *Emu – Austral Ornithology*, *Environmental Science and Pollution*, *Food Webs*, *Frontiers in Ecology and the Environment*, *Geo: Geography and Environment*, *Geoforum*, *GigaByte*, *Global Change Biology*, *Global Ecology and Biogeography*, *Global Ecology and Conservation*, *Heliyon*, *Human Dimensions of Wildlife*, *Ibis*, *International Journal of Digital Earth*, *Journal of Applied Ecology*, *Journal of Biogeography*,

Journal of Ecotourism, Journal of Environmental Economics, Journal of Environmental Management, Journal of Field Ornithology, Journal of Ornithology, Journal of the American Statistical Association, Journal of Urban Ecology, Landscape and Urban Planning, Landscape Ecology, Methods in Ecology and Evolution, Nature, Nature Cities, Nature Communications, Nature Ecology & Evolution, Nature Human Behaviour, Nature Sustainability, Oikos, People and Nature, PeerJ Computer Science, PLOS Biology, PLOS One, Proceedings of the Linnean Society of NSW, Proceedings of the Zoological Society, Regional Studies in Marine Science, Remote Sensing in Ecology and Conservation, Science, Science Advances, Science of the Total Environment, Scientific Reports, The Condor, Tourism Management Perspectives, Trends in Ecology and Evolution, Urban Ecosystems, Urban Forestry and Urban Greening, Wildlife Biology.

Publons profile: <https://publons.com/researcher/1234808/corey-callaghan/peer-review/>

I also have reviewed 4 National Science Foundation proposal, 1 Natural Sciences and Engineering Research Council proposal, 1 Swiss National Science Foundation, 1 Austrian Science Foundation, 1 Deutsche Forschungsgemeinschaft (DFG) proposal, 1 European Union Research Council Synergy Grant, 1 National Science Center Poland proposal, 1 Sapienza University of Rome proposal, and 1 proposal for the Vienna Science and Technology Fund, and 1 proposal for the Technical University of Munich.

- Editorial Board member of Diversity and Distributions
 - o Handle ~10 manuscripts per year

Society memberships

- British Ornithologist's Union (Member, 2019-present)
- Society for Open, Reliable, and Transparent Ecology and Evolutionary Biology (Member, 2023-present)
- Association for Advancing Participatory Sciences (Member, 2024-present)
- Ecological Society of America (Member, 2023-present)
- Wilson Ornithological Society (Member, 2017-present)
- Florida Chapter of the Wildlife Society (Member, 2023-present)

SUPERVISING AND MENTORING

- Currently supervise six graduate students – two Master's and 4 PhD – and two undergraduate students.
- Currently supervise two Postdoctoral Scholars.
- Have supervised four different undergraduate projects. Three have been published (see Gorta et al. 2019, Weaver et al. 2020, and Lee et al. 2021 above).
- Have co-supervised four honours projects (Australian equivalent to a shortened Masters, that students complete before starting a PhD). Two have been published (see Mitchell et al. 2019 and Laitly et al. 2021 above), one is in minor revisions, and two are in review.
- Have successfully co-supervised one PhD student at UNSW Sydney to completion, focused on using citizen science data to understand frog diversity dynamics throughout Australia.
- Have successfully supervised one Master's student at University of Florida to completion, focused on participatory citizen science data in biodiversity research.

OUTREACH ACTIVITIES

NON-PEER REVIEWED PUBLICATIONS (“PUBLIC OUTREACH”)

5. **Callaghan, C.T.** (2019): The Greenspace bird Calculator: A tool to help monitor avian biodiversity in urban greenspaces. *Consulting Ecology*, 12, 13-15.
4. **Callaghan, C.T.** (2018): What impact do cities in the Blue Mountains World Heritage Area have on bird-life? *Australian Wildlife*, 2, 24-26.
3. **Callaghan, C.T.** (2017) Birders and Exotics – Aesthetics, Ecology, Fair Play: A survey of the birding community’s strongly held views about exotic bird species. *Birding*, 49, 28-36.
2. **Callaghan, C.T.** (2016) A Global Perspective on the Egyptian Goose (*Alopochen aegyptiaca*): Ten Interesting Tidbits. *Everglade Kite*, Newsletter of the Audubon Society of the Everglades 56, February 2016.
1. **Callaghan, C.T.** (2014) Shorebirds at Snook Islands. *Everglade Kite*, Newsletter of the Audubon Society of the Everglades 55, December 2014.

VOLUNTEER ACTIVITIES

- Chair of the Broward County Urban Wilderness Advisory Board, 2023-present.
- Serve as a member of the IUCN SSC Species Monitoring Specialist Group, 2021-present.
- Have prepared content and given lectures for a weekly Environmental Computing class conducted through the School of BEES at UNSW (2016 – 2020)
- Volunteer content sourcer for the Ecological Society of Australia’s bimonthly bulletin (2017 – 2020)
- Have volunteered for > 12 Christmas Bird Counts – a citizen science initiative by the National Audubon Society (2010 – 2016)
- Have appeared on radio interviews discussing urban birds and bird-related research (2017 – present)
- Given talks (N>10) to local birding clubs in the United States and Australia discussing research (2014 – present)