

TIMOTHY ALEXANDER MOUSSEAU

Curriculum Vitae – June 2023

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PROFESSIONAL EXPERIENCE

2002- Professor of Biological Sciences
2019-20 SURA/NASA Visiting Scientist, Kennedy Space Center
2016-17 Visiting Professor (part-time), Chubu University (Nagoya, Japan)
2014-15 Visiting Professor (part-time), Chubu University (Nagoya, Japan)
2010-11 Associate Vice President for Research and Graduate Education
2010-11 Dean of the Graduate School
2006-10 Associate Dean for Research and Graduate Education,
 College of Arts and Sciences, USC
1999-2000 Visiting Professor, Université of Pierre et Marie Curie (Paris VI)
1998-2001 Chair, Graduate Program in Ecology, Evolution and Organismal Biology
1997-1998 Program Director, National Science Foundation (NSF)(Population Biology)
1996-1997 Chair, Graduate Program in Ecology, Evolution and Organismal Biology
1996-2008 Professor of Entomology (Adjunct), Clemson University
1996-2002 Associate Professor, USC
1991-1996 Assistant Professor, USC

EDUCATION

PDF University of California, Davis (1988-90), NSERC Postdoctoral Fellow
Ph.D. McGill University (1988), Biology
M.Sc. University of Toronto (1983), Zoology
B.Sc.(Hons) University of Ottawa (1980), Biology (Cum Laude)
B.Sc. University of Ottawa (1979), Biology

HONORS AND AWARDS

- Fellow, Royal Geographical Society (2020-)
- Fellow, American Association for the Advancement of Sciences (2008-)
- Fellow, American Council of Learned Societies (ACLS), 2015-17
- Fellow National, The Explorers Club, NYC (2009-22)
- Governor’s Award for Excellence in Scientific Awareness (2019)
- Breakthrough Leadership in Research Award (USC), 2019
- Russell Research Award, USC, 2018
- Member, the Cosmos Club, Washington, DC (2011-16)
- Member, the KOSMOS Club, Columbia, SC (elected 2016; president 2018-19)
- President’s Appreciation Award, National Black Graduate Student Association (2011)
- Faculty Award, Black Graduate Student Association (2011)
- Fulbright Senior Specialist Awards (Ukraine)(2007, 2012)
- Mortar Board “Excellence in Teaching” award (1998)
- USC Provost’s Instructional Innovation award (1996)
- SEC Academic Leadership Development Fellow (ALDP)(2009-10)
- NSERC Postdoctoral Fellow Award (1988)
- McConnell Doctoral Fellow Award (1985)

PROFESSIONAL MEMBERSHIPS

- American Association for the Advancement of Sciences
- Royal Geographical Society
- New York Academy of Sciences
- South Carolina Academy of Sciences
- Sigma Xi
- American Nuclear Society
- American Society of Naturalists
- International Union of Radioecology
- Radiation Research Society
- Florida Entomological Society
- Oak Ridge Associated Universities (USC Councilor 2006-2010)
- PSAC-CESU – USC councilor (2006-2010)
- Society for the Study of Evolution
- European Society for Evolutionary Biology
- Council of Graduate Schools (2010-11)
- Council on Undergraduate Research (2010-11)
- Aircraft Owners and Pilots Association
- Experimental Aircraft Association
- South Carolina Aeronautical Association

EDITED VOLUMES AND BOOKS

- Fox, C.W. and Mousseau, T.A. 2020. The Year in Evolutionary Biology, 2020. Edited volume. **Annals of the New York Academy of Sciences**, 1476: 1-92.
- Mousseau, T.A. and C.W. Fox. 2018. The Year in Evolutionary Biology, 2018. Edited volume. **Annals of the New York Academy of Sciences**, 1422: 1-103.
- Fox, C.W. and Mousseau, T.A. 2017. The Year in Evolutionary Biology, 2017. Edited volume. **Annals of the New York Academy of Sciences**, 1389: 1-212.
- Mousseau, T.A. and C.W. Fox. 2015. The Year in Evolutionary Biology, 2015. Edited volume. **Annals of the New York Academy of Sciences**, 1360: 1-144.
- Fox, C.W. and Mousseau, T.A. 2014. The Year in Evolutionary Biology, 2014. Edited volume. **Annals of the New York Academy of Sciences**, 1320: 1-92.
- Mousseau, T.A. and C.W. Fox. 2013. The Year in Evolutionary Biology, 2013. Edited volume. **Annals of the New York Academy of Sciences**, 1289: 1-105.
- Mousseau, T.A. and C.W. Fox. 2012. The Year in Evolutionary Biology, 2012. Edited volume. **Annals of the New York Academy of Sciences**, 1256:1-107.
- Schlichting, C. and T.A.Mousseau. 2010. The Year in Evolutionary Biology 2010. Edited volume. **Annals of the New York Academy of Sciences**, 1206: 1-162.
- Schlichting, C. and T.A.Mousseau. 2009. The Year in Evolutionary Biology 2009. Edited volume. **Annals of the New York Academy of Sciences**, 1168: 1-228.
- Schlichting, C. and T.A.Mousseau. 2008. The Year in Evolutionary Biology 2008. Edited volume. **Annals of the New York Academy of Sciences**, 1133: 1-205
- Burris, J.E., J.C. Bailar, III, H.L. Beck, A. Bouville, P.S. Corso, P.J. Culligan, P.M. Deluca, Jr., R.A. Guilmette, G.M. Hornberger, M. Karagas, R. Kasperson, J.E. Klaunig, T. Mousseau, S.B. Murphy, R.E. Shore, D.O. Stram, M. Tirmarche, L. Waller, G.E. Woloschak, J.J. Wong. 2012. Analysis of Cancer Risks in Populations Near Nuclear Facilities: Phase I. **Nuclear and Radiation Studies Board, National Research Council, The National Academies Press**, Washington, D.C., 412pp.
- Mousseau, T.A., B. Sinervo, and J. A. Endler. 2000. Adaptive Genetic Variation in the Wild. Edited volume. **Oxford University Press**, 288pp.
- Mousseau, T.A. and C.W. Fox. 1998. Maternal Effects As Adaptations. Edited volume. **Oxford University Press**, 400pp.

PUBLICATIONS

Submitted, In Review, and in Revision:

Mousseau, T.A., Todd, S.A. 2023. Biological consequences of exposure to radioactive hydrogen (tritium): A comprehensive survey of the literature. In review.

Boratynski, Z., Lavrinienko, A., Lehmann, P., Mousseau, T., Tukalenko, E., Andrii, V., Watts, P., Mappes, T., Noawick, K. 2022. Metabolic effects on radiation dose rates in Chernobyl rodents. *Evolutionary Applications*, in review.

Tintori, S.C., Çağlar, D., Ortiz, P., Chyzhevskiy, I., Mousseau, T.A. and Rockman, M.V., 2023. Environmental radiation exposure at Chernobyl has not systematically affected the genomes or mutagen tolerance phenotypes of local worms. In review.

2023:

1. Maile, R., Duggan, M. and Mousseau, T. 2023. The successes and pitfalls: Deep learning effectiveness in a Chernobyl field camera trap application. *Ecology and Evolution*, in press.
2. Spatola, G.J., Buckley, R.M., Dillon, M., Dutrow, E.V., Betz, J.A., Pilot, M., Parker, H.G., Bogdanowicz, W., Thomas, R., Chyzhevskiy, I., Milinevsky, G., Kleiman, N., Breen, M., Ostrander, E.A., and T.A. Mousseau. 2023. The dogs of Chernobyl: breed ancestry and population structural analysis reveal demographic insights into dog populations inhabiting the Exclusion Zone. *Science Advances*, 9, eade2537.
3. Hecla, J., Kambarian, E., Tubbs, R., McKinley, C., Berliner, A. J., Russell, K., ... & Mousseau, T. 2022. Radioactive Contamination in Feral Dogs in the Chernobyl Exclusion Zone: Population Body-Burden Survey and Implications for Human Radiation Exposure. *PLoS One*, in press.
4. Dillon, M.N., Thomas, R., Mousseau, T.A, Betz, J. A., Kleiman, N.J., Burford Reiskind, M.O., Breen, M. 2022. Population dynamics and genome-wide selection scan for dogs in Chernobyl. *Canine Medicine and Genetics*, 10: 1-14.
5. Secomondi, S.,... Mousseau, T.A. et al. 2023. A chromosome-level reference genome and pangenome for barn swallow population genomics. *Cell Reports*, 42: 111992.
6. Mangano., J., Gaus, K.S., Ketterer, M.E., and T.A. Mousseau. 2023. Strontium-90 in baby teeth as a basis for estimating U.S. cancer deaths from nuclear weapons fallout. *International Journal of Social Determinants of Health and Health Services*, 53(3):374-384.

2022:

7. Møller, A.P., T.A. Mousseau. 2022. *Radioecology*. Oxford Bibliographies. DOI: [10.1093/OBO/9780199830060-0229](https://doi.org/10.1093/OBO/9780199830060-0229)

8. Lombardo, G., Mousseau, T.A., et al. 2022. The mitogenome relationships and phylogeography of Barn Swallows (*Hirundo rustica*). *Molecular Biology and Evolution*, 39(6): msac113. <https://doi.org/10.1093/molbev/msac113>
9. Shaffer, J., T.A. Mousseau, et al. (83 co-authors). 2022. Multi-omics profiling of Earth's biomes reveals that microbial and metabolite composition are shaped by the environment. *Nature Microbiology*, 7: 2128–2150.
10. Kivisaari, K., Calhim, S., Lehmann, P., Boratyński, Z., Mousseau, T.A., Møller, A.P., Mappes, T. 2022. Chronic background radiation correlates with sperm swimming endurance in bank voles from Chernobyl. *Frontiers in Ecology and Evolution*, p.982.
11. Watts, P.C., Mappes, T., Tukalenko, E., Mousseau, T.A., Boratyński, Z., Møller, A.P. and Lavrinienko, A., 2022. Interpretation of gut microbiota data in the ‘eye of the beholder’: A commentary and re-evaluation of data from ‘Impacts of radiation exposure on the bacterial and fungal microbiome of small mammals in the Chernobyl Exclusion Zone’. *Journal of Animal Ecology*, 91(7), pp.1535-1545.
12. Olvido, A.E.R, T.A. Mousseau. 2022. *Geographical Variation*. Encyclopedia of Life Sciences, Wiley, <https://doi.org/10.1002/9780470015902.a0029470>
13. Bonisoli-Alquati, A., A.P. Møller, G. Rudolfson, T.A. Mousseau. 2022. Birds as Bioindicators of Radioactive Contamination and Its Effects. In: M.D. Wood, C.E. Mothersill, G. Tsakanova, T. Cresswell, G.E. Woloschak (eds), *Biomarkers of Radiation in the Environment - Robust Tools for Risk Assessment*, Springer, Berlin. DOI: 10.1007/978-94-024-2101-9_11

2021:

14. Lavrinienko, A., Hämäläinen, A., Hindström, R., Tukalenko, E., Boratyński, Z., Kivisaari, K., Mousseau, T.A.; Watts, P., Mappes, T. 2021. Comparable response of wild rodent gut microbiome to anthropogenic habitat contamination. *Molecular Ecology*, 30: 3485-3499.
15. Duggan, Matthew T., Melissa F. Groleau, Bryan C. Hall, Chris G. Stone, Layne L. Anderson, Matthew M. Waller, Lillian S. Self, Taylor E. Utter, Ethan P. Shealy, Timothy A. Mousseau. 2020. An approach to rapid processing of camera trap images with minimal human input. *Ecology and Evolution*, 11: 12051-12063.
16. Spatola, Gabriella J., Elaine A. Ostrander, Timothy A. Mousseau. 2021. The effects of ionizing radiation on domestic dogs: A review of the atomic bomb testing era. *Biological Reviews of the Cambridge Philosophical Society*, 96: 1799-1815.
17. Mousseau, T.A. 2021. The Biology of Chernobyl. *Annual Review of Ecology, Evolution and Systematics*, 52, 87-109.
18. Boratyński, Zbyszek, Timothy A. Mousseau, and Anders Pape Møller. 2021. The effect of radioactive contamination on body temperature in Chernobyl barn swallows. *Ecology and Evolution*, 11: 9039-9048.

2020:

19. Mousseau, T.A. & A.P. Møller. 2020. Plants in the light of ionizing radiation: What have we learned from Chernobyl, Fukushima, and other “hot” places? *Frontiers in Plant Science*, 11: 552.
20. Lavrinienko, A., Tukalenko, E., Mousseau, T.A., Thompson, L.R., Knight, R., Mappes, T. and Watts, P.C., 2020. Two hundred and fifty-four metagenome-assembled bacterial genomes from the bank vole gut microbiota. *Scientific Data*, 7(1), pp.1-7.
21. Lavrinienko, A., Tukalenko, E., Kesäniemi, J., Kivisaari, K., Masiuk, S., Boratynski, Z., Mousseau, T.A., Milinevsky, G., Mappes, T., Watts, P. 2020. Applying the Anna Karenina principle for wild animal gut microbiota: temporal stability of the bank vole gut microbiota in a disturbed environment. *Journal of Animal Ecology*, 89(11): 2617-2630.
22. Beaugelin-Seiller, K., Garnier-Laplace, J., Della-Vedova, C., Métivier, J.M., Lepage, H., Mousseau, T.A. and Møller, A.P. 2020. Dose reconstruction supports the interpretation of decreased abundance of mammals in the Chernobyl Exclusion Zone. *Scientific Reports*, 10(1), pp.1-13.
23. Korsakov, A.V., Geger, E.V., Lagerev, D.G., Pugach, L.I. and Mousseau, T.A., 2020. Reply to: letter to the editor of *Heliyon* re De novo congenital malformation frequencies in children from the Bryansk region following the Chernobyl disaster (2000–2017). *Heliyon*, 6(10): e05183
24. Korsakov, A.V., Geger, E.V., Lagerev, D.G., Pugach, L.I. and Mousseau, T.A., 2020. De novo congenital malformation frequencies in children from the Bryansk region following the Chernobyl disaster (2000–2017). *Heliyon*, 6(8), p.e04616.
25. Koufopanou, V., Lomas, S., Pronina, O., Almeida, P., Sampaio, J.P., Mousseau, T., Liti, G. and Burt, A., 2020. Population size, sex, and purifying selection: comparative genomics of two sister taxa of the wild yeast *Saccharomyces paradoxus*. *Genome Biology and Evolution*, 12(9): 1636-1645. <https://doi.org/10.1093/gbe/evaa141>
26. Kesäniemi, J., A. Lavrinienko, E. Tukalenko, A.F. Moutinho, T. Mappes, A.P. Møller, T.A. Mousseau, , P. C. Watts. 2020. Exposure to environmental radionuclides alters mitochondrial dynamics in a wild rodent. *Evolutionary Ecology*, 34: 163-174. <https://doi.org/10.1007/s10682-019-10028-x>
27. Arnaise, S., Shykoff, J.A., Møller, A.P., Mousseau, T.A. and Giraud, T. 2020. Anther-smut fungi from more contaminated sites in Chernobyl show lower infection ability and lower viability following experimental irradiation. *Ecology and Evolution*, <https://doi.org/10.1002/ece3.6376>
28. Mousseau, T.A. & A.P. Møller. 2020. Nuclear energy and its ecological byproducts: Lessons from Chernobyl and Fukushima (in Japanese). Learning from Fukushima: Nuclear power in East Asia (Japanese version), edited by Peter Van Ness and Mel Gurtov, <http://doi.org/10.22459/LF.2020.09>. Pp: 259-281.
29. Chebli, A., Doumandji-Mitiche, B., Doumandji, S., Biche, M. and T.A. Mousseau. 2020. Overview of the arthropod fauna in the extreme southeast of Algeria: Species Richness in Tassili N'Ajjer National Park (Djanet, Algeria). *Biodiversity Journal*, 11:1007-1014.

2019:

30. Møller, A.P., T.A. Mousseau. 2019. Interactive effects of ionizing radiation and climate change on the abundance of breeding birds. *Ecological Indicators*, 99: 178-182.
31. Møller, A.P., T.A. Mousseau. 2019. Radioecology. In: *Oxford Bibliographies in Ecology*, David Gibson (Ed), Oxford University Press, New York.
32. Kesäniemi, J., A. Lavrinienko, E. Tukalenko, Z. Boratyński, K. Kivisaari, T. Mappes, G. Milinevsky, A.P. Møller, T.A. Mousseau, P.C. Watts. 2019. Exposure to environmental radionuclides associates with tissue-specific impacts on telomerase expression and telomere length. *Scientific Reports*, 9: 850.
33. Mappes, T., Boratynski, Z., Kivisaari, K., Milinevski, G., Mousseau, T.A., Møller, A.P., Tukalenko, E., Watts, P. 2019. Ecological mechanisms can modify radiation effects in a key forest mammal of Chernobyl. *Ecosphere*, 10(4): e02667.
34. Mothersill, C., Abend, M., F. Brechignac, D. Copplestone, S. Geraskin, J. Goodman, N. Horemans, P. Jeggo, W. McBride, T.A. Mousseau, A. O'Hare, R.V.L. Papineni, G. Powathil, P. Schofield, C. Seymour, J. Sutcliffe, B. Austin. 2019. The tubercular badger and the uncertain curve:- the need for a multiple stressor approach in environmental radiation protection. *Environmental Research*, 168: 130-140.
<https://doi.org/10.1016/j.envres.2018.09.031>

2018:

35. Møller, A.P., T.A. Mousseau. 2018. Soil invertebrates are less abundant under irradiated decomposing wood in Chernobyl. *Science of the Total Environment*, 645:773-779.
36. Lavrinienko, A., T. Mappes, E. Tukalenko, T.A. Mousseau, A.P. Møller, R. Knight, J.T. Morton, L.R. Thompson, Phillip C. Watts. 2018. Environmental radiation alters the gut microbiome of the bank vole *Myodes glareolus*. *ISME Journal*, 2018:1.
37. Morelli, F., Y. Benedetti, T.A. Mousseau, Møller, A.P. 2018. Ionizing radiation and taxonomic, functional and evolutionary diversity of bird communities. *Journal of Environmental Management*, 220: 183-190.
38. Ash, I.T., T.A. Mousseau, L. Onaga. 2018. Orbiting in the field: A taidan (conversation) on ecology and filmmaking in Tohoku, Japan. *Positions*, 26(2) 213-241.
<https://doi.org/10.1215/10679847-4351542>
39. Omar-Nazir, L., Shi, X., Møller, A.P., Mousseau, T.A., Byun, S., Seymour, C., C. Mothersill. 2018. Long-term effects of ionizing radiation after the Chernobyl accident: possible contribution of historic dose. *Environmental Research*, 165: 55-62.
40. Bonisoli-Alquati, A., S. Ostermiller, A.P. Møller, D.A.E. Beasley, T.A. Mousseau. 2018. Faster development covaries with higher DNA damage in grasshoppers (*Chorthippus albomarginatus*) from Chernobyl. *Physiological and Biochemical Zoology*, 91(2): 776-787.
41. Jernfors, T., Jenni Kesäniemi, Anton Lavrinienko, Tapio Mappes, Gennadi Milinevsky, Anders P. Møller, Timothy A. Mousseau, Eugene Tukalenko, Phillip C. Watts. 2018. Transcriptional upregulation of DNA damage response genes in bank voles (*Myodes*

glareolus) inhabiting the Chernobyl Exclusion Zone. *Frontiers in Environmental Science (Environmental Toxicology)*, 5: 95.

2017:

42. Kesaniemi, J., Boratynski, Z., J. Danforth, P. Itam, T. Jernfors, A. Lavrinienko, T. Mappes, A. P. Møller, T. A. Mousseau, P. C. Watts. 2017. Analysis of heteroplasmy in bank voles inhabiting the Chernobyl exclusion zone: A commentary on Baker et al. (2017) 'Elevated mitochondrial genome variation after 50 generations of radiation exposure in a wild rodent'. *Evolutionary Applications*, 11:820-826.
43. Møller, A.P., Morelli, F., Benedetti, Y., Mousseau, T., Su, T., Zhou, B., Tryjanowski, P., Liang, W. 2017. Multiple species of cuckoos are superior predictors of bird species richness in Asia. *Ecosphere*, 8(11):e02003 .
44. Morelli, F., T.A. Mousseau, Møller, A.P. 2017. Cuckoos vs. top predators as prime bioindicators of biodiversity in disturbed environments. *Journal of Environmental Radioactivity*, 177: 158-164.
45. Møller, A.P., T.A. Mousseau. 2017. Radiation levels affect pollen viability and germination among sites and species at Chernobyl. *International Journal of Plant Sciences*, 178(7).
46. Mousseau, T.A., Møller, A.P. 2017. Nuclear energy and its ecological byproducts: Lessons from Chernobyl and Fukushima. In: P. Van Ness and M. Gurtov (eds.), "Lessons of Fukushima: Nuclear Power in East Asia", Australian National University Press, Canberra, Australia.
47. Mousseau, T.A., Møller, A.P. 2017. The animals of Chernobyl and Fukushima. In: Korogodina, V.L., C.E.Mothersill, S.G. Inge-Vechtomov, C.B. Seymour. (eds.), "Genetics, Evolution and Radiation: Crossing Borders, The Interdisciplinary Legacy of Nikolay W. Timofeef-Rossovsky", pages 251-266. Springer International Publishing, 558pp.
48. Ruiz-Rodriguez, M., A. P. Møller, T. A. Mousseau, J.J. Soler. 2017. Capacity of blood plasma is higher in birds breeding in radioactively contaminated zones. *PLoS ONE*, 12(6): e0179209.
49. Fill, J.M., J.S. Glitzenstein, D.R. Streng, J. Stowe, T.A. Mousseau. 2017. Wiregrass (*Aristida beyrichiana*) may limit woody plant encroachment in Longleaf Pine (*Pinus palustris*) ecosystems. *American Midland Naturalist*, 177(1): 153-161.

2016:

50. Boratynski, Z., Arias, J.M., Mappes, T., Mousseau, T.A., Møller, A.P., Munoz-Pajares, A.J., Pereze, C.G., Piwczynski, M. 2016. Ionizing radiation from Chernobyl affects development of wild carrot plants. *Scientific Reports*,6: 39282.
51. Ruiz-Rodriguez, M., A. P. Møller, T. A. Mousseau, J.J. Soler. 2016. Defenses against keratinolytic bacteria in birds living in radioactively contaminated areas. *The Science of Nature (Naturwissenschaften)* 103(9-10): 71.

52. Evangeliou, N., S. Zibtsev, V. Myroniuk, M. Zhurba, T. Hamburger, A. Stohl, Y. Balkanski, R. Paugam, T.A. Mousseau, A.P. Møller, S.I. Kireev. 2016. Atmospheric transport of radionuclides emitted due to wildfires near the Chernobyl Nuclear Power Plant (CNPP) in 2015: An impact assessment. *Scientific Reports*, 6: 26062. doi:10.1038/srep26062.
53. Møller, A.P., J.C. Shyu, T.A. Mousseau. 2016. Ionizing radiation from Chernobyl and the fraction of viable pollen. *International Journal of Plant Sciences*, 177(9):727-735. (Cover)
54. Bréchnac, F., D. Oughton, C. Mays, L. Barnhouse, J.C. Beasley, A. Bonisoli-Alquati, C. Bradshaw, J. Brown, S. Dray, S. Geras'kin, T. Glenn, K. Higley, K. Ishida, L. Kapustka, U. Kautsky, W. Kuhne, M. Lynch, T. Mappes, S. Mihok, A.P. Møller, C. Mothersill, T.A. Mousseau, J. Otaki, E. Pryakhin, O.E. Rhodes, Jr, B. Salbu, P. Strand, H. Tsukada. 2016. Addressing ecological effects of radiation on populations and ecosystems to improve protection of the environment against radiation: Agreed statements from a Consensus Symposium. *Journal of Environmental Radioactivity*, 158-159:21-29.
55. Burlakova, E.B., D.M. Grodzinskiy, K.H. Loganovsky, T.A. Mousseau, A.P. Moller, M.V. Naboka, and V.M. Shestopalov. 2016. Chernobyl and New Knowledge about the Impact of Low Doses of Radiation. In: M. Peterson (ed.), *The Chernobyl Disaster*, Nova Scientific Publishers, Hauppauge, NY, 177 pp.
56. Aguilera G., Badouin H., Hood M. E., Møller A.P., Le Prieur S., Snirc A, Siguenza S., Mousseau T.A., Shykoff J.A., Cuomo C.A., and Giraud T. 2016. Lower prevalence but similar viability and non-synonymous substitution rates suggest radioresistance and increased purifying selection in a parasitic fungus at Chernobyl. *Molecular Ecology*, 25(14): 3370-3383.
57. Einor, D., A. Bonisoli-Alquati, D. Costantini, T. A. Mousseau, A. P. Møller. 2016. Ionizing radiation, antioxidant response and oxidative damage: A meta-analysis. *Science of the Total Environment*, 548-549: 463-471. doi:10.1016/j.scitotenv.2016.01.027
58. Ruiz-González, M.X., G. Á. Cziráj, P. Genevaux, A. P. Møller, T. A. Mousseau and P. Heeb. 2016. Resistance of feather-associated bacteria to intermediate levels of ionizing radiation near Chernobyl. *Scientific Reports*, 6: 22969. Doi:10.1038/srep22969.
59. Evangeliou, N., T. Hamburger, N. Talerko, S. Zibtsev, Y. Bondar, A. Stohl, Y. Balkanski, T. A. Mousseau, A.P. Møller. 2016. Reconstructing the Chernobyl Nuclear Power Plant (CNPP) accident 30 years after. A unique database of air concentration and deposition measurements over Europe. *Environmental Pollution*, 216: 408-418.
60. Fill, J.M., B.M. Moule, J.M. Varner, and T.A. Mousseau. 2016. Flammability of the keystone savanna bunchgrass *Aristida stricta*. *Plant Ecology*, 217(3): 331-342.
61. Møller, A.P., T.A. Mousseau. 2016. Are animals and plants adapting to low-dose radiation at Chernobyl? *Trends in Ecology and Evolution*, 31(4): 281-289. (Cover).
62. Møller, A.P., F. Morelli, T.A. Mousseau, P. Tryjanowski. 2016. The number of syllables in Chernobyl cuckoo calls reliably indicate habitat, soil and radiation levels. *Ecological Indicators*, 66: 592-597.
63. Lehmann, P., Boratynski, Z., Mappes, T., Mousseau, T.A., Møller, A.P. 2016. Fitness costs of increased cataract frequency and cumulative radiation dose in natural mammalian populations from Chernobyl. *Scientific Reports*, 6: 19974. DOI:10.1038/srep19974

2015

64. Garnier-Laplace, J., Beaugelin-Seiller, K., Della-Vedova, C., Métivier, J.M., Ritz, C., Mousseau, T.A. and Møller, A.P., 2015. Radiological dose reconstruction for birds reconciles outcomes of Fukushima with knowledge of dose-effect relationships. *Scientific Reports*, 5: 16594. DOI:10.1038/srep16594
65. Aliyu A.S., N. Evangelidou, T. A. Mousseau, J. Wu, A. T. Ramli. 2015. An overview of current knowledge concerning the health and environmental consequences of the Fukushima Daiichi Nuclear Power Plant (FDNPP) Accident. *Environmental International*, 85:213-228.
66. Serga, S., Maistrenko, O., Rozhok, A., Mousseau, T.A., Kozeretska, I. 2015. Colonization of a temperate-zone region by the fruit fly, *Drosophila simulans* (Diptera: Drosophilidae). *Canadian Journal of Zoology*, 93:799-804. doi: 10.1139/cjz-2015-0018
67. Mousseau, T.A., Møller, A.P. 2015. Landscape-scale consequences of nuclear disasters. *LA+ Interdisciplinary Journal of Landscape Architecture*. 1: 66-71.
68. Fill, J.M., W.J. Platt, S.M. Welch, J.L. Waldron, T.A. Mousseau. 2015. Updating models for restoration and management of fiery ecosystems. *Forest Ecology and Management*, 356: 54-63. DOI: 10.1016/j.foreco.2015.07.021
69. Fill, J., J. Waldron, S. Welch, W. Gibbons, S. Bennett, and T.A. Mousseau. 2015. Using multiscale spatial models to assess potential surrogate habitat for an imperiled reptile. *PLoS ONE*, 10(4): e0123307. doi:10.1371/journal.pone.0123307.
70. Møller, A.P., T.A. Mousseau, I. Nishiumi, K. Ueda . 2015. Ecological differences in response of bird species to radioactivity from Chernobyl and Fukushima. *Journal of Ornithology*, 156:287-296. DOI: 10.107/s10336-015-1173-x
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COMMENTARIES AND BOOK REVIEWS

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253. Mousseau, T.A. 1992. Populus: Simulations in Population Biology. **American Biology Teacher**. 54: 310-313. (software review)
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TECHNICAL REPORTS

- GAO. 2011. Report to Congressional Requesters: NUCLEAR REGULATORY COMMISSION. Oversight of Underground Piping Systems Commensurate with Risk, but Proactive Measures Could Help Address Future Leaks. Expert panelist for the National Academy of Science for the preparation of this report to congress concerning health and environmental impacts of tritium leaks from commercial nuclear power plants. GAO-11-563.
- Population Biology Task Force. 2001. *Frontiers in Population Biology*. A prospective report prepared for the National Science Foundation. Principle participants: T. Meagher, J. Collins, F. Gould, K. Holsinger, R. Lenski, C. Lynch, A. Moore, M. Rausher, A. Sakai, M. Courtney, S. Scheiner & T. Mousseau.
- Morton, W., T.A. Mousseau, and L.A. Molot. 1983. Experimental neutralization of Bowland Lake: Preliminary benthic investigations. Ontario Ministries of Natural Resources Technical Report.

THESES

- Mousseau, T.A. 1988. Life history evolution in a seasonal environment: A case study. PhD thesis, Dept. of Biology, McGill University. Advisor: Dr. Derek Roff
- Mousseau, T.A. 1983. The ecology of the slimy sculpin (*Cottus cognatus*) in central Ontario. MSc thesis, Dept. of Zoology, University of Toronto. Advisor: Dr. Nicholas Collins
- Mousseau, T.A. 1980. Vitamin enrichment of lake plankton: field tests of micronutrient limitation. BSc Honors Thesis (University of Ottawa). Advisor: Dr. Frederic Briand

SYMPOSIA, SEMINARS, AND PUBLIC PRESENTATIONS

Keynote and Plenary Presentations

- Plenary Speaker, International ISOE ALARA meeting, PEP workshop. “Dose and Effect: Lessons Learned from Bird, Bees, Dogs and Plants in Chernobyl, Fukushima & the International Space Station”, Ft. Lauderdale, Jan 30, 2023.
- Keynote Speaker, NATC ISOE ALARA Symposium, “Chernobyl and Fukushima: Radiological and Environmental Surveillance Results from a 22 Year Study.” Ft. Lauderdale, Jan 31, 2023.
- Plenary Speaker, Nuclear Energy Institute - Radiological Effluents and Environmental Workshop – Savannah, GA, June 27, 2022. Invited. “Chernobyl and Fukushima: Radiological and Environmental Surveillance Results from a 22 Year Study.”
- Keynote Lecture, “Traces of Chornobyl”, MacEwan University, Edmonton, Alberta, CA, March 16, 2022
- Keynote Lecture, “Biological consequences of ionizing radiation: what have we learned from studies of Chernobyl?”, at “Modern problems of Genetics, Radiobiology, Radioecology and Evolution” (GRRE2021), dedicated to N.W. Timofeeff-Ressovsky and his scientific school. Yerevan State University, October 4, 2021
- Keynote Lecture, “10 Years Living with Fukushima: Ecology in Fukushima: What Does a Decade Tell us?”, IPPNW meeting in Berlin, Feb 27, 2021
- Keynote Lecture, Global Pollution: Cross-Cultural Perspectives on Environmental Issues, Center for Slavic and Eastern European Studies, The Ohio State University, November 15, 2019
- Bergamo Scienza Festival, Keynote Lecture, Bergamo Italy, October 14, 2017.
- Keynote Lecture, Environmental Education Workshop, Taichung City, Taiwan, May 4, 2017
- Keynote Lecture, Environmental Education Workshop, Pintung City Government Building, May 5, 2017
- Keynote Lecture, Chubu University International ESD Center Symposium, “Biological Impacts of the Fukushima Disaster”, January 27, 2017
- Keynote Lecture, KOSMOS Club, Columbia, SC, January, 2016
- Keynote Speaker, Chornobyl 30 Years After: Energy, Environment, Policy, Munk School of Global Affairs, University of Toronto, November 2016
- Keynote Speaker, USC McNair TRIO Programs Annual Awards Luncheon, June 28, 2016.
- Keynote Speaker, The Atomic Age III symposium, DePaul University, Chicago, April, 2016
- Keynote Speaker, The 3rd Citizen-Scientist International Symposium on Radiation Protection, Tokyo, September, 2015
- Keynote Speaker, SE Fulbrighters Research Symposium, USC, Columbia, March 2015
- Keynote Speaker, Meeting of the IWHO, Geneva, November 2014
- Keynote Speaker, International Ornithological Congress, “From Chernobyl to

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- Fukushima: Impacts of Nuclear Accidents on Bird Populations,” Tokyo, August, 2014
- Keynote Speaker, Workshop on Exposure and Effect: Measuring Environment, Safety, and Life in Asia, Singapore (Nanyang Technological University), October 2014
- Plenary Speaker, Workshop on Nuclear Power in East Asia, Australian National University, August, 2014
- Keynote Speaker, Southeastern Ecology and Evolution Conference, Statesboro, GA, March 16, 2014
- Plenary Speaker, International Physicians for the Prevention of Nuclear War (IPPNW), Special Meeting to address health and environmental impacts of the Fukushima disaster, Germany, March 4, 2014
- Keynote Speaker, Wild Bird Society of Japan Annual Meeting, Chiba, Japan, November 9, 2013
- Keynote Speaker, House of Representatives, Tokyo, Japan, July 29, 2013
- National Council for Science and the Environment, Washington, DC, January 2013 Plenary presentation, “Japan 2011: Cascading Disasters” (televised on C-SPAN).
- Keynote Speaker, USC McNair TRIO Programs closing reception, June 27, 2013.
- The South Carolina Association of Naturalists, January 2013, Keynote lecture, “The Impacts of the Fukushima and Chernobyl Disasters on Wildlife”
- SC Hospital Association, Hospital Preparedness Summit, August 2012, Keynote Speaker, “Chernobyl vs. Fukushima: Can animal models inform public health risks associated with chronic low dose radiation exposure?”
- Hanford Natural Resource Damage Assessment Panel, Hanford, WA, August 2012, Plenary speaker, “The Effects of Radionuclides on Biota”
- Keynote Speaker, TRIO Programs closing reception, USC, April 9, 2011.
- Keynote Speaker, Great Lakes Institute for Environmental Research (Windsor), “Health and Environmental Impacts of Nuclear Contaminants: Lessons from the Wilds of Chernobyl”, April 12, 2010
- Keynote Speaker, National Birth Defects Prevention Network (NBDPN) Annual Meeting, Memphis, TN, February 2009.
- Keynote Speaker, TRIO Programs closing reception, USC, 2009.
- Keynote Speaker, Association for the Study of Animal Behavior, London, Dec 2008.
- Keynote, SC Public Health Association Meeting (SCPHA), Myrtle Beach, SC, May 2007.
- Plenary Speaker, Federazione Italiana Scienze della Vita, Riva del Garda, Italy, Sept. 2005
- Plenary Speaker, Italian Ethological Congress, Turino, September, 2002.

Invited Public Presentations

- KOSMOS Club (Columbia, SC) – “A Brief History of Human Evolution with a Discussion of the Importance of Cultural Inheritance for Evolutionary Processes”, November 15, 2022.
- Bird Protection Quebec (Canada): “Wildlife Across an Atomic Landscape: The Ecological Consequences of Radiation for the Flora and Fauna of Chernobyl and

Fukushima”, March 1, 2021

- National Biodiversity Teach-In, “Radiation, Mutations and the Chernobyl Zone ,” live webinar to 1000+ middle and high school students. February 21, 2020.
- Women’s Group of Greenville, Poinsett Club, Greenville, SC, November 12, 2019
- Midlands Lifelong Learning Program, “Nuclear Energy: Costs, Benefits, and Environmental Hazards”, Lourie Center, Columbia, SC, March 18-27, 2019.
- Explorers Club, “From Chernobyl to Fukushima and Beyond”, Feb 13, 2019 (@USC)
- National Biodiversity Teach-In, “Ionizing Radiation and its Effects on Wildlife,” live webinar to hundreds of middle and high school students. February 22, 2019.
- MLG Group Discussion @ Nonnah’s, “From Chernobyl to Fukushima and Beyond”, Feb 25, 2019
- Low Level Radiation and Health meeting, Stirling University, June 2018
- National Biodiversity Teach-In, “Ionizing Radiation and its Effects on Wildlife,” live webinar to hundreds of middle and high school students. February 16, 2018.
- Wesleyan University (CT), “Think Tank Event”, Feb 12, 2018
- Legislative Yuan (Parliament), Taipei, Taiwan, May 2, 2017
- Presentation to Mayor of New Taipei City, Taiwan, May 3, 2017
- Poinsett Club, Greenville, SC, April 2017
- Greenpeace, Southern California, May 18, 2016
- Goethe Institute, Chernobyl and Fukushima, Washington, DC, May 3, 2016.
- UK House of Commons, Chernobyl and Fukushima, presentation to MP’s and the public, March 17, 2016
- Chernobyl and Fukushima – “Do Nuclear Accidents Generate a “Garden of Eden” for Wildlife?”, Manchester Mechanic Institute, UK, March 19, 2016
- Fulbright Ukraine, Kyiv EducationUSA Advising Centre, February 2016
- National Biodiversity Teach-In, “Ecological and Evolutionary Consequences of the Radioactive Contaminants stemming from the Chernobyl and Fukushima Disasters,” live webinar to hundreds of middle and high school students. February 2016.
- Civil Service Development Center, Kaohsiung City, Taiwan, January 2016
- Fukushima City Seishonen Kaikan, Japan, January 2016
- Pioneers Works Art Center, Brooklyn New York, public lecture and photo exhibit, November, 2015
- EON, Point Reyes, CA, “Fukushima Effects on Wildlife”, September 2015
- Baruch Institute, (Georgetown, SC), Alumni Retreat, “Fireside Chat”, May 2015
- Kiwanis Club, (Columbia, SC), November, 2014
- Quinebaug Valley Community College, Danielson, CT, October 2014
- US Library of Congress, Washington DC, May, 2014
- Fukushima Cattle Ranchers Association, Tokyo, Japan, February 19, 2014
- National Biodiversity Teach-in, “Ecological and Evolutionary Consequences of the Radioactive Contaminants stemming from the Chernobyl and Fukushima Disasters,” live webinar to hundreds of middle and high school students. February 2015.
- Citizen’s Group, Kokura, Japan, November 18, 2013

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- University of Tokyo, Japan, November 16, 2013
- Koriyama Citizens Group, Japan, July 30, 2013
- Hamamatsu Citizens Group, Japan, July 23, 2013
- Osaka Citizens Group, Japan, July 25, 2013
- Otsu Citizens Group, Japan, July 26, 2013
- The New York Academy of Medicine, March 2013, “The Medical and Ecological Consequences of Fukushima”
- Yamashina Institute for Ornithology, February 2012, Presentation to Prince Akishino and the Board of Directors concerning the immediate impacts of the Fukushima disaster on wild birds.
- Tohoku Fukushi University, Sendai, Japan, May 2012, Keynote presentation at the workshop, “Nuclear Disaster Response --- The Need to Know”.
- Science Café, Engenuity, “The Future of Nuclear Energy: An Environmental Perspective”. Capital City Club, Columbia, SC. April 2012
- QIAGEN Headquarters, “Genetics of Mutations in Chernobyl and Fukushima,” Hilden , Germany, December 2011
- American Nuclear Society National Meeting, “Radioecology and Unintended Consequences of Nuclear Accidents,” November 2011
- Sierra Club / Sustainable Universities, “Unexpected Lessons of Mutation and Population Declines in Chernobyl”, University of South Carolina, September, 2011
- American Ornithological Union Meetings, Special Workshop Presentation, “25 Years Since Chernobyl,” July 2011 (Jacksonville)
- Explorers Club, HQ, evening lecture, “Explorations of the Chernobyl Zone of Alienation”, May 9, 2011 (NYC)
- Panelist, United Nations Conference, “Chornobyl – Lessons for Nuclear Security – 25 Years Later” (April 26th, 2011, UN HQ, NYC)
- Panelist, United Nations Conference, “Nuclear Energy – From Cradle-to-Grave” (April 27th, 2011, UN HQ, NYC)
- University of Chicago, “Chernobyl @ 25 years: Unacceptable Uncertainties and Unsubstantiated Optimism.” April 8, 2011
- Explorers Club National Executive Meeting, Charleston, January, 2011
- Harvard Medical School. April, 2010
- Keynote Lecture, Palmetto Forum, Columbia, SC, Oct 2007
- SC Public Health Association Meeting (SCPHA), Myrtle Beach, SC, May 2007 (Plenary speaker)

Invited Symposium Presentations

- Nuclear Security Summit, “Updates on Radiation Effects on the Plants and Animals of Chernobyl and Fukushima,” Georgetown University, Washington, DC, November, 2021
- Nuclear Security Summit, “Radiation Effects on the Plants and Animals of Chernobyl and Fukushima,” Georgetown University, Washington, DC, Dec 12, 2018

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- International Union of Radioecology, Stirling University, June 21, 2018
- American Fisheries Society, “Something Fishy Going on in Japan”, Tampa, FL, USA, August 24, 2017
- Campaign for Nuclear Disarmament Conference, Conway Hall, London, UK, June 17, 2017
- Ignorance, Science and Democracy Workshop, University of Paris, December 2016
- American Society for Environmental History, “Thirty Years After Chernobyl: Why Do We Know So Little?”, Seattle, WA, April 2, 2016
- Cher30byl and Fuk5hima – Beyond Nuclear Conference, “Do Nuclear Accidents Generate a “Garden of Eden” for Wildlife?”, Manchester City Hall, UK, March 18, 2016
- International IPPNW Congress, “Effects of nuclear accidents on the biosphere”, Berlin, Germany, February 2016. International Physicians for the Prevention of Nuclear War (IPPNW) was awarded the 1985 Nobel Peace Prize for efforts to reduce the threat of the catastrophic consequences of atomic warfare.
- International IPPNW Congress, “5 years living with Fukushima”, Berlin, Germany, February 2016.
- Graduate School Production Ecology and Resource Conservation Symposium, “One’s waste... Another One’s Treasure?”, Wageningen, Netherlands, November, 2015.
- International Union for Radioecology Workshop, Miami, FL, November 2015.
- Nuclear Security Summit and Workshop, 2015. Georgetown University, Washington, DC, Oct 2015.
- International Wildlife Management Congress, “Fukushima Wildlife”, Sapporo, Japan, July 2015
- IUR International Conference, Modern Problems of Genetics, Radiobiology, Radioecology, and Evolution, St. Petersburg, Russia, 2-4 June, 2015
- Harvard Medical School, “Human Teratogens”, April 2015
- American Genetics Association, Presidential Symposium, “Evolution and Plasticity: Adaptive Responses by Species to Human-Mediated Changes to their Ecosystems,” Seattle, WA, June 28, 2014
- The 3rd Citizen-Scientist International Symposium on Radiation Protection, Tokyo National Olympics Memorial Youth Center, Oct 13th, 2013, “Non-Human Animal Models for Effects of Radiation Exposure in Nature”
- Society for Molecular Biology and Evolution meetings, Chicago, July 8, 2013, “Chernobyl, Fukushima and Other Hot Places”
- National Council for Science and the Environment, Washington, DC, January 2013, Symposium presentation, “Ecosystem Impacts from Nuclear Energy: Lessons from Chernobyl and Fukushima”
- International Society for Environmental Epidemiology meeting, Columbia, SC, August 2012, Symposium presentation, “Chernobyl vs. Fukushima: Can animal models inform public health risks associated with chronic low dose radiation exposure?”
- American Nuclear Society meeting, San Diego, November, 2012, “Chernobyl and Fukushima: Differences and Similarities, a biological perspective”

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- International LowRad meeting, Kiev, Ukraine, Dec 2011
- Entomological Society of America, Reno, NV, November, 2011
- American Nuclear Society, Washington, DC, November, 2011
- Pennsylvania State University, September, 2011
- Society for the Study of Birth Defects, Budapest, Sept 2008.
- International Conference on Social Protection of the Chornobyl NPP Accident Sufferers, Kiev, Ukraine, April 24, 2008.
- Ecological Society of America, Montreal, Quebec, August 2005
- NATA/CCMS Pilot Study: “Risk assessment of Chernobyl accident consequences: Lessons learned for the future”, Kiev, June 1-4, 2005
- NATO/CCMS Pilot Study: “Risk assessment of Chernobyl accident consequences: Lessons learned for the future”, Rome, Dec 2-4, 2004.
- Annual Meetings of the Ecological Society of America, Albuquerque, NM, August 1997.
- Annual Meetings of the Society for the Study of Evolution, St. Louis, June 1996.
- Annual Meetings of the Entomological Society of America, Reno, December 7-11, 1991.
- IV International Congress of Systematics and Evolutionary Biology, University of Maryland, July 1-7, 1990

Invited Departmental Seminar Presentations

- University of South Carolina, Beaufort SC, April 5, 2019
- Chubu University, Nagoya, Japan, March, 2018
- University of South Carolina, Aiken, Feb 23, 2018
- Wesleyan University, Middleton, CT, Feb 12, 2018
- Ministry of Food and Drug Safety, Seoul, Korea, November, 2017
- Nagasaki University, Faculty of Fisheries, July 20, 2017, Japan
- East Tennessee State University, September 2016
- Scripps Institute of Oceanography, San Diego, May 18, 2016
- California State University, San Marco, May 18, 2016
- University of California, San Diego, May 2016
- Georgetown University, Washington DC, May 2016
- National Taiwan University, Taipei, January 2016
- Clemson University, October, 2015
- Meharry Medical School, Nashville, TN, October 2015
- Georgetown University, Washington DC, April 2015
- Arizona State University, Phoenix, April 2015
- McGill University, Montreal, March 2015
- University of Memphis, October, 2014
- Deakin University, (Australian), August, 2014

- Georgetown University, May 2014
- Columbia University, Center for Radiological Research, April 2014
- National Institute of Biomedical Innovation, Osaka, Japan, Nov 13, 2013
- Tohoku University, Dept of Pathology, November 17, 2013
- Osaka University, Osaka, Japan, July 24, 2013
- Chubu University, Nagoya, Japan, July 27, 2013
- Columbia University, Center for Radiological Research, April 2013
- University of Lancaster, February 2013, “Uncertainties in field studies on chronic low level effects due to radiation”
- Imperial College, February 2013, “Chernobyl, Fukushima, and Other Hot Places: Biological Consequences”
- George Washington University, Asian Studies Program, March 2013, “Ecological Consequences of the Fukushima Disaster”
- George Washington University, January 2013, Nuclear Studies Program, “Chernobyl, Fukushima, and Other Hot Places: Biological Consequences”
- University of Tokyo, July 2011
- Savannah River Ecology Lab, November 2010
- Michigan State University, Jan 2007
- Fulbright Office, Kiev, June 2007
- University of Bern, Dec 2007
- Faculty of Fisheries, Nagasaki University, Jan. 2006
- Faculty of Medicine and Radiobiology, Nagasaki University, Jan. 2006
- Savannah River Ecology Lab, March 2006
- Converse College, Spartanburg, SC, March 2006
- Dartmouth College, NH, April 2006
- University of South Carolina (Walker Institute), Sept 2006
- University of Central Florida, Oct 2006
- Texas A&M, February, 2005
- University of Milan, Sept. 2005
- University of South Carolina, Aiken. Oct. 2005
- University of North Carolina, Greensboro, Nov. 2005
- Clemson University, Clemson, Dec. 2005
- University of Windsor, January 2004
- University of Montana, February 2004
- Benedict College, June 2004
- Ukrainian Antarctic Center, July 2004
- University of South Carolina, School of the Environment, October, 2004
- University of North Carolina, Chapel Hill, October, 2004
- North Carolina State University, October, 2004
- College of Charleston (Darwin Day Presentation), February 2003
- The Citadel (Charleston), February 2003

- Tulane University, January, 2002
- New Mexico State University, April 2002
- University of Georgia, February 2001
- Auburn University, February 2001
- University of Kentucky, March 2001
- University of Pierre et Marie Curie, Paris, January 2000
- University of California, Santa Cruz, March 2000
- University of Paris South, France, March 2000
- Uppsala University, Sweden, March 2000
- Clemson University, Dept. of Entomology. January, 1999.
- University of Toronto, January 1999.
- University of Northern British Columbia, October 1999
- University of North Carolina, Charlotte, November 1999
- College of Charleston, November 1999
- CNRS, Paris, France. January, 1998.
- University of Maryland, BEES. March, 1998.
- Georgia Southern University. October, 1998.
- North Carolina State University. November, 1998.
- Fordham University, The Bronx, NY, Dept. of Biology. February 1997.
- National Science Foundation, DEB. May, 1997.
- University of California, San Diego, Dept. of Biology. December 1996.
- Clemson University, Dept. of Biology. March 1995.
- Nagasaki University, Japan. Faculty of Marine Sciences and Engineering. August 1995.
- Winthrop University, Rock Hill, SC. Dept. of Biology. October 1995.
- University of Miami, Dept. of Biology. February 1994.
- University of Las Vegas, Biological Sciences. April 1994.
- University of California, Irvine, Dept. of Ecology and Evolution. April 1994.
- Pennsylvania State University, Dept. of Entomology. February 1991.
- University of California, Riverside, Dept. of Biology. October 1990.
- University of South Carolina, Biological Sciences. February 1990.
- University of California, Davis, Dept. of Entomology. January 1989.

Press Conferences

- PSR/IPPNW – Fukushima at 5 years, Washington DC, March 9, 2016
- Legislative Yuan, Taipei, Taiwan – “Effects of Low Dose Radiation”, January 26, 2016
- The Foreign Correspondent’s Club of Japan – “Fukushima Catastrophe and its Effects on Wildlife”. Tokyo, Japan, August 22, 2014. <https://youtu.be/8lcTGUMwVtU>

RECENT GRANT SUPPORT

Award Title	Sponsoring Agency	Total Sponsor	Begin Date	End Date
The University of South Carolina Infectious Disease Translational Research Center (M. Nolan = PI)	USC Office of Research	\$2,000,000	7/1/23	
Mechanisms of radiation tolerance in Caenorhabditis from Chernobyl (M. Rockman (NYU) = PI)	NIEHS	\$433,535	5/1/20	4/30/22
Dosimetry and Temperature Monitoring of Seeds and Other Biological Materials During Space Flight	NASA/ SC EPSCoR	\$25,000	5/15/20	5/14/21
Radiation effects on Pollen, Seeds and Plants	SURA/NASA	\$67,758	10/1/19	9/30/20
NSF Graduate Research Fellowship Program GRFP (2034711)	National Science Foundation (NSF)	\$796,168	08/1/20	7/31/25
NSF Graduate Research Fellowship Program GRFP	National Science Foundation (NSF)	\$501,500	8/15/14	7/31/21
Whole Genome Sequencing of the Dogs of Chernobyl ((PI=E. Ostrander)	NIH (intramural)	\$100,000	10/1/19	9/30/20
Support for Chernobyl - related research	Samuel Freeman Charitable Trust	\$485,000	1/1/11	12/31/24
A Medium & Large Wildlife Diversity Survey of The Clarkhill Training Center 2019	SCMD	\$55,000	1/1/19	12/31/19
Monitoring Medium and Large Mammals at the McCrady Training Site- 2018	SCMD	\$60,000	1/1/18	9/30/18
Wildlife monitoring at McCrady Training site	South Carolina Army National Guard (SCARNG)/DoD	\$19,500	8/1/17	3/30/18
Studies of Food Contamination in Japan	Ministry of Food and Drug Safety, Korea	\$25,000	9/1/18	12/31/18
Studies of Food Contamination in Japan	Ministry of Food and Drug Safety, Korea	\$50,000	1/27/17	12/31/17
External Review of the Core Competencies of SRNL (PI = H. Haj-Hariri)	Clemson University/ SRNL/DOE	\$33,979	7/13/16	9/30/16
Pollinator Diversity and Abundance at The McCrady and Clarkhill Training Sites	South Carolina Army National Guard (SCARNG)/DOD	\$31,675	5/3/16	5/2/17

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Support for Fukushima Research	Chubu Science and Technology Center (Nagoya, Japan)	\$50,000	4/1/16	3/30/17
Studies of food contamination in Japan	Ministry of Food and Drug Safety, Korea	\$50,000	1/1/16	12/31/16
ACLS: Collaborative Research Fellowship: Project: Chernobyl Revisited: An Historical Inquiry into the Practice of Knowing	American Council of Learned Societies (ACLS)	\$60,000	7/1/15	8/31/16
Grant in Support of Research in Chernobyl and Fukushima	University of Jyvaskyla, Academy of Finland	\$31,276	12/16/14	8/15/15
Support for Fukushima Research	Chubu Science and Technology Center (Nagoya, Japan)	\$50,000	4/1/14	3/31/15
Biodosimetry of Children Exposed to Low-level Radioactive Contamination	The Trustees of Columbia University in the City of New York/NIH	\$31,362	8/1/13	7/31/14
Fukushima Research	Private Donation (Japan)	\$10,000	7/1/13	7/1/14
Qiagen Donations to USC-CRI in Support of Research in Chernobyl and Fukushima	QIAGEN GmbH	\$5,000	6/1/13	5/31/14
Senior Specialist - Ukraine	Fulbright Foundation	\$9,500	1/1/12	1/1/13
Herpetofaunal Survey and Eastern Diamondback Rattlesnake (EDB) Monitoring and Tracking	US Army Corps of Engineers/DOD	\$208,000	7/1/11	9/30/12
Qiagen Donations to USC-CRI in Support of Research in Chernobyl and Fukushima	QIAGEN GmbH	\$20,000	6/1/11	7/31/12
NSF Graduate Fellowship (Jennifer Fill)	National Science Foundation (NSF)	\$126,000	8/16/10	3/31/14
Institute for Change (Pi = H. Pastides)	Carnegie Corporation of New York	\$299,841	10/1/09	1/31/12
Habitat Characterization of Headwater Seepage Wetlands on the SC Coastal Plain	SC Department of Natural Resources/US Fish & Wildlife Service/DOI	\$6,130	10/1/09	9/30/11
Natural Resources Personnel Human/Wildlife Interaction Risk Management Model (Task 3)	CESU: Marine Corp-Parris Island/DOD	\$370,360	7/1/09	9/30/11
South Carolina EPSCoR/IDeA Postdoctoral Academic Career Development Program(PACD)	SC EPSCoR / National Center for Research Resources (NCRR)/NIH	\$56,673	5/1/09	4/30/10
NSF GRFP (Institutional Award)	National Science Foundation	\$671,000	3/1/09	

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SC Graduate Steps to STEM	National Science Foundation	\$600,000	1/15/09	12/31/14
A GIS-based Model to Guide Landscape-scale Restoration - Nemours Foundation	Nemours Wildlife Foundation	\$21,000	10/1/07	9/30/10
A GIS-based Model to Guide Landscape-Scale Restoration	SC Department of Natural Resources/US Fish and Wildlife Service/DOI	\$70,500	10/1/07	9/30/10
A GIS-based Model to Guide Landscape-Scale Restoration	SC Department of Natural Resources	\$20,000	10/1/07	4/30/08
SC STEPS to STEM	National Science Foundation	\$2,000,000	8/1/07	7/31/14
Matched Funding Request for Staffing/Operation of the USC Environmental Genomics Core Laboratory (EnGenCore)	USC Research Foundation	\$100,000	5/1/07	6/30/08
Postdoctoral Academic Career Development Scholar	SC EPSCoR/IDeA/NSF	\$47,442	5/1/07	4/30/08
MGS: The Long Term Consequences of the Nuclear Accident at Chernobyl Measured in DNA in a Local Barn Swallow Population	USC Research Foundation	\$2,975	1/1/07	12/31/07
Collaborative Linkage Award (Ukraine)	NATO	\$13,000	1/1/07	12/31/07
Senior Specialist - Ukraine	Fulbright Foundation	\$5,500	1/1/07	12/31/07
Planning for a South Carolina Ecological Observatory Network	SC EPSCoR/SCRA/NSF	\$3,000	10/1/06	10/31/07
Magellan Scholar: Behavioral Fever and the Maintenance of a Male-killing Bacterial Infection in a Natural Beetle Population.	USC Research Foundation	\$3,000	8/15/06	8/14/07
Mutation Rates and Fitness in the Barn Swallows of Chernobyl	National Geographic Society	\$20,000	6/1/06	5/31/07
Immune Response in Muscle Histolysis	SC EPSCoR/SCRA/NSF	\$79,562	7/1/05	12/31/06
Muscle Degeneration Under Conditions of Microgravity	SC Space Grant Consortium/NASA	\$8,000	5/1/05	6/30/06
Collaborative Research: Reproductive Behavior and Immune Defense - Supplement	National Science Foundation (NSF)	\$6,000	3/1/05	9/30/07
Collaborative Research: Reproductive Behavior and Immune Defense - RET Supplement	National Science Foundation (NSF)	\$10,000	3/1/05	9/30/07

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Radioactive Contaminants, Antioxidants, and Mutation: A Comparative Analysis of Birds, Flies and Humans of Chernobyl	USC/SOE/ERIC	\$39,776	6/1/04	6/1/05
Estimation of Radioactive Contamination of Birds in the Chernobyl Exclusion Zone	US Civilian Research & Development Foundation	\$6,000	11/26/03	11/25/05
Estimation of Radioactive Contamination of Birds in the Chernobyl Exclusion Zone	US Civilian Research & Development Foundation	\$6,000	11/26/03	11/25/05
Control of Muscle Histolysis	SC Research Authority (SCRA)	\$35,060	11/1/03	6/30/04
Herpetofaunal Survey of the Yawkey Wildlife Center	Yawkey Foundation	\$35,000	9/1/03	8/31/05
Collaborative Research: Reproductive Behavior and Immune Disease	National Science Foundation (NSF)	\$120,652	3/1/03	9/30/07
Mutation Rates and Fitness in the Barn Swallows of Chernobyl	National Geographic Society	\$20,000	1/1/03	12/31/03
Mutation Rates and Fitness in the Barn Swallows of Chernobyl	National Science Foundation (NSF)	\$32,840	6/15/02	5/31/04
Physiological Mechanisms of Muscle Histolysis	EPSCoR-BRIN Collaborative Research Program/NIH	\$75,000	5/15/02	8/31/03
Yawkey Wildlife Center Herpetological Survey	National Fish & Wildlife/DOI	\$6,105	4/1/02	12/31/04
The Development of Smart Radio Telemetry for Monitoring and Conservation of Terrestrial and Aquatic Animals	National Fish & Wildlife/DOI	\$5,930	4/1/02	12/31/04
GA: SC Department of Natural Resources	SC Department of Natural Resources	\$7,000	1/1/02	5/15/02
Dissertation Research: The Evolutionary Genetics of Sexual Dimorphism	National Science Foundation (NSF)	\$8,200	6/15/01	5/31/03
The Evolutionary Genetics of Sexual Dimorphism	National Science Foundation (NSF)	\$8,200	6/15/01	
Development and Application of Hypervariable DNA Markers (Micro- Satellites) to Issues in Red Drum Stock Enhancement	SC Sea Grant Consortium/NOAA	\$2,600	2/15/01	2/14/02
GA: SC Department of Natural Resources	SC Department of Natural Resources	\$6,150	1/1/01	5/15/01
The Adaptive Significance of Phenotypic Plasticity and Reaction	National Science Foundation (NSF)	\$267,000	12/15/00	1/31/05

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Norm Evolution in a Natural System

The South Carolina Statewide Collaboration (SCSC) Providing Interactive Biology Research Experience to Minority Undergraduates	National Science Foundation (NSF)	\$327,000	8/15/00	6/30/05
Sustainable Universities Initiative	Kann Rasmussen Foundation	\$6,000	5/1/00	12/30/00
Visiting professorship	CNRS (France)	\$20,000	1/1/00	6/1/00
Genetic variation for oviposition preferences and larval growth and survival	National Science Foundation (NSF)	\$312,000	6/1/96	6/1/99
RPS	USC	\$6,500	6/1/96	6/1/97
Symposium Maternal Effects As Adaptations	National Science Foundation	\$6,000	6/1/96	6/1/97
Provosts Instructional Innovation Award	USC	\$17,695	6/1/96	7/1/96
SOE grant	USC	\$4,000	6/1/96	6/2/96
A Survey of Lepidoptera at Fort Jackson	DOD (Marine Corp)	\$18,000	6/1/95	6/1/96
REU supplement	National Science Foundation (NSF)	\$5,000	6/1/95	6/2/95
Preference/performance relationships in a leaf-mining beetle	USDA	\$71,012	6/1/93	6/1/95
Genetic correlations in a sender/receiver communication system	National Science Foundation (NSF)	\$25,000	6/1/91	6/1/93
Reinforcement in a Zone of Overlap and Hybridization. (PI: D.J Howard).	National Science Foundation (NSF)	\$225,000	6/1/90	6/1/93
Postdoctoral Fellowship	NSERC (Canada)	\$50,000	8/1/88	8/1/90
McConnell Doctoral Fellowship	McGill University	\$25,500	6/1/85	6/1/88

SERVICE ACTIVITIES

Service to the University (since 2006)

- 2010-11 **Associate Vice President for Research and Graduate Education –**
Responsibilities included oversight of university-wide Sponsored Awards Management Office, Research Compliance Office, Animal Care Office, Research Development Office, the Office of Undergraduate Research, and the Graduate School. Initiated the “**Breakthrough Rising Stars**” program.
- 2010-11 **Dean of the Graduate School – Interim –**
In addition to management of the Graduate School, responsibilities included development of a blueprint for the reorganization of the Graduate School; design and implementation of a new graduate fellowship program (**Presidential Fellows**) and associated mentoring program; design and implementation of new travel grant program.
- 2006-10 **Associate Dean for Research and Graduate Education – College of Arts and Sciences -** Responsibilities included the development and implementation of policies to enhance College research, scholarship, and academic missions; participation in College’s strategic planning and research budgeting activities; oversight of college research centers including the McCausland Center for Brain Imaging, College Machine Shop, Center for Digital Humanities; the development of a Confucius Institute; new programs for faculty mentoring; design and implementation of a new graduate student travel grant program; conceived and implemented a new USC-CAS-NEH Summer Stipend Award Program to support summer research in the humanities; Conceived and implemented strategies for faculty mentoring and community building including “Faculty Field Trips” to Washington DC to meet with funding agencies and grant writing workshops; conceived and chaired a committee to recognize faculty research accomplishments through organized nominations for national awards (e.g. AAAS fellow nomination).
- 2008-14 **Program Director, SC STEPs to STEM –** Managed USC’s NSF supported undergraduate bridge program aimed at increasing recruitment, retention and graduate rates of transfer students to STEM fields (\$2M)
- 2009-14 **Program Director, SC Graduate Steps to STEM –** Managed USC’s S-STEM graduate training program. Sponsored by NSF (\$600k) and aimed at increasing recruitment and retention of transfer students to graduate programs in STEM fields.

2000- **Founding Co-Director, USC Chernobyl + Fukushima Research Initiative** – This research initiative began formal research activities in Ukraine in 2000, Belarus in 2005, and Fukushima, Japan, in July, 2011. To date, the group has conducted more than 80 research expeditions to Chernobyl and 40 expeditions to Fukushima. Original funding sources included the Samuel Freeman Charitable Trust, the CNRS (France), the National Science Foundation, and the National Geographic Society. Subsequently, additional funding sources have included NATO, the Civilian Research Development Foundation (CRDF), the National Institutes of Health (NIH), Qiagen GmbH, the Fulbright Foundation, the University of South Carolina Office of Research, the University of South Carolina College of Arts & Sciences, the Academy of Finland, and gifts from private citizens. To date, more than 120 scientific publications have resulted from this initiative, most in the past decade, with many others in progress. This research has been highlighted in many newspaper reports and television programs including the New York Times, The Economist, Harpers, the BBC, CNN, CBS’s 60 Minutes, Scientific American, and the PBS News Hour (see attached list).

University Committee Service (Since 2006)

2021- T&P committee, Chair, Biological Sciences, USC
 2016- T&P committee, Biological Sciences, USC
 2018-19 Evolution search committee, Biological Sciences, USC
 2017-18 Evolution search committee, Biological Sciences, USC
 2010-11 Columbia Commencement Committee (USC Board of Trustees)
 2010-11 Provost’s Distance Education Advisory Committee
 2010-11 Graduate Council (ex-officio)
 2009 Provost’s SACS Standards Committee
 2008 Provost’s Non-Tenure Track Faculty Definitions and Policies Revisions Committee (Chair of definitions sub-committee)
 2008 Provost’s Carnegie Foundation Community Engagement Classification Committee
 2007 Associate Deans for Engineering and Computing Search Committee (Chair)
 2008 Investigatory committee on academic misconduct (College of Arts & Sciences)
 2006-10 A&S Academic Planning Council – Ex-officio member of the colleges primary academic policy management group.
 2007-08 Confucius Institute – Co-author of initial grant proposal to Chinese government, ex-officio member of steering committee.
 2007-08 President’s Minority Affairs Review Committee, Faculty and Staff, Subcommittee Report
 2008-10 Research Deans Monthly Discussion Group Committee (chair)

Outside Professional Service

- Member Plant Science Working Group, NASA, (2021-)
- International Review Panel member, CONICYT Site Reviews in Chile (October 2016, 2017,

2018,2022)

- Savannah River National Laboratory External Review Committee member (2016)
- Advisor to Ministry of Trade, Industry and Energy of the Republic of Korea (2016-17)
- Co-Organizer, International Union of Radioecology International Workshop, Miami, FL, November, 2015.
- Program Committee, IUR International Conference, Modern Problems of Genetics, Radiobiology, Radioecology, and Evolution, St. Petersburg, Russia, 2-4 June, 2015
- Organizing Committee, UNDP-sponsored meeting in Kyiv, Ukraine, April 20-22, 2011, “Twenty-five Years after Chernobyl Accident: Safety for the Future”
- Panelist, National Academy of Sciences, Analysis of Cancer Risks in Populations Near Nuclear Facilities: Phase I (2011-)
- Panelist, National Academy of Sciences, GAO Panel on Health and Environmental Effects from Tritium Leaks at Nuclear Power Plants (2011)
- USC Councilor to the Oak Ridge Affiliated Universities Association (ORAU), (2006-10)
- Nominator, 2002, 2005, 2009, 2013, 2017 Kyoto Prizes, Inamori Foundation (nominated 2009 winner)
- USC Representative to the Cooperative Ecosystems Studies Unit (P-SAC CESU)(2008-10)
- Review of the International Radiobiology Laboratory, Gomel, Belarus, 2009
- Member, External Oversight Committee, NIH RISE Program, Benedict College, 2007-11
- On-site Review of Fisheries Technologies Program, Nagasaki University, 2006
- Symposium co-organizer, Ecological Society of America, Montreal, Quebec, August 2005
- Symposium organizer, “Adaptive Genetic Variation in the Wild,” Annual Meetings of the Ecological Society of America, Albuquerque, NM, August 1997.
- Symposium organizer, “Maternal Effects as Adaptation,” Annual Meetings of the Society for the Study of Evolution, St. Louis, June 1996.

Service to Funding Agencies

- Explorers Club Discovery Grants Review panel (2014-2019)
- NSF S-STEM program, review panel member (Sept 2010)
- NSF STEM Program, review panel member (Nov 2009)
- CONICYT Site Reviews in Santiago & Valdivia, Chile. World Bank – (2008, 2016, 2017, 2021, 2022)
- UAE National Science Foundation Science and Technology Center Panel Review, in Dubai, United Arab Emirates (Nov 2008).
- Fulbright Foundation (July 2007, 2012, 2013, 2014, 2017, 2018)
- Science Foundation Ireland, panel member, Dublin, Ireland (Dec 2007)
- NSF PEP Panel member (April 2004, 2005)
- Member, Reverse Site Visit, NSF CREST program. 2000.
- USGS Grand Canyon Monitoring and Research Center Panel member, Phoenix AZ (2001)
- Program Director, National Science Foundation, Population Biology (1997-98)

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- Directed NSF BIO Postdoctoral Fellowship Panel (1998)
- Directed NSF BIO DEB Doctoral Dissertation Improvement Grant Panel (1998)
- Directed NSF BIO Population Biology Program Advisory Panel (April 1998)
- Directed NSF BIO Population Biology Program Advisory Panel (October 1997)
- Served on the Doctoral Dissertation Improvement Panel Review for NSF's Division of Environmental Biology (Population Biology / Systematics).(1997)
- Served as a panel referee for the 1996 Bluefin Tuna reports (FISHTEC/NMFS).(1996)
- Referee/panelist for 1997 Bluefin Tuna grant program (FISHTEC/NMFS/SC SEA Grant)(1997)

Editorial Service

- Founding Senior-Editor, *The Year in Evolutionary Biology*, New York Academy of Sciences Press (an annual review series). 2008-20
- Academic Editor, PLoS ONE, 2014-
- Associate Editor, *Frontiers in Plant Science*, 2021-
- Editorial Board Member, *Breakthrough Magazine* (USC), 2006-11
- Editorial Board Member, *The Open Evolution Journal*, 2007-13
- Editorial Board Member, *Bulletin of the Chernobyl Zone*, 2007-12
- Associate Editor, *Journal of Evolutionary Biology*, 2002-5
- Editor-in-Chief (Acting), *Evolution*, (Aug- Oct) 2001
- Associate Editor, *Evolution*, 1999-2001
- Referee for American Journal of Botany, American Naturalist, Annals of the Entomological Society of America, Behavioral Ecology, Behavioral Ecology and Sociobiology, Bioscience, Canadian Journal of Zoology, CMLS, Copeia, Ecology, Ecological Entomology, Ecology Letters, Ecoscience, Environmental Entomology, Ethology , Evolution, Functional Ecology, Hereditas, Heredity, Journal of Evolutionary Biology, Journal of Heredity, Journal of Herpetology, Journal of Insect Physiology, Journal of Theoretical Population Biology, Nature, PNAS, The Royal Society, UK (Proceedings B.), Science, Trends in Ecology and Evolution, and many others.

Community Service

- Richland County Airport Commission: Appointed Commissioner, April, 2017-21.
- Kosmos Club – Columbia, SC, Town & Gown discussion group. Elected member January 2017; vice president 2017; president 2018.
- Hand Middle School Educational Foundation (Columbia, SC): Board member 2005-11, President 2008-09. Raised more than \$150,000 in grants and donations to support school capital improvements. Was recognized as the Richland County School Board volunteer group of the year (2009-2010)
- Forest Hills Neighborhood Association (Columbia, SC): Board member 1998-2004; President 2002-04. Worked extensively with City Council and management and the CPD to implement plans for improvement of public safety and beautification in downtown neighborhoods.

TEACHING EXPERIENCE

Since starting at USC in 1991, my formal teaching has alternated between BIOL 301 – Ecology and Evolution, a large required course for biology majors, and BIOL 652 – Evolutionary Genetics, a required course for incoming graduate students. I have also organized numerous graduate level seminar courses, and taught BIOL 270 – Environmental Science, on multiple occasions. Much of my non-classroom teaching has focused upon mentoring students in research.

HIGH SCHOOL INTERNS WHO HAVE CONDUCTED RESEARCH IN MY LAB

Steve Busby (1994)	Shelley Elvington (1995)	Jannie Lee (1992) ⁵
Elizabeth Mack (1993-94)	Robert Preister (1992) ¹	Doug Witherspoon (1998) ¹
Jaime Brown (1999, 2000)	Eddie Nance (1999) ¹	Justin Cooper (2000)
Jeanette Wallulis (1999, 2000)	Ashley Rogers (2001)	Maggie Coates (2001)
Lateef Johnson (2001) ¹	Rick Ranalli (2003)	Christi Lynn (2003)
Jonathan Dixon (2004)	Rick Ranalli (2004)	Sarah Casper (2004)
Marielle Matheus (2004)	Jainee Patel (2005)	James Atkinson (2005)
Tim Knox (2006-07)	Max Schilling (2006)	Eliza Stucker (2007)
Mira Radieva (2008)	Lauren Sharpe (2008)	Will Smith (2009)
Kayla Broecker (2009)		

UNDERGRADUATE STUDENTS WHO HAVE PARTICIPATED IN THE LAB (Partial listing):

Rebecca Heil (1992-94), Virginia Groemminger (1992-95), Amanda Anderson (1993-94), C. Greg Cauthen (1995-96), Emmett Maas (1995-96), Lisa Cyr (1996), Amy Desai (1996-99)⁶, Tameika Dawkins (1995-96)¹, Sejal Shah (1995-98)⁶, Amy Harbin (1995-96)², Sanjeev Shah (1996)⁶, Antoinette Holmes (1996-98)¹, Elizabeth Mack (1995-99), Reka Kovacs (1995-96), John Martin (1994-95), Philip Lemmon (1996)¹, Peter Chung (1995-96)⁵, Tyrus Lyles (1996-97)¹, E. Barron Short (1996), Mary Nuguy (1995-96)⁵, Lloyd Raleigh (1994-95), Thomas Scarborough (1994)¹, Monica Thakar (1994-96)⁶, Toretha Wilson (1994)¹, C. David Parry (1995-96), Heather Rush (1995-96)⁵, Kenn White (1994-97)¹, Nicole Lopanic (1994), Dawn Hatcher (1995-96), Tammy MacDonald (1996-97)², Jamie Collins (1996), Sally Stein (1994), Jannie Lee (1993)⁵, Jamone Blake (1997)¹, Angela Smith (1997), Kristin Gossendanger (1997), Corbet Lesslie (1998-99), Gayle Heyer (1998)¹, Ann Ngyuen (1998)⁵, Deana Graves (1998-99), Wesley Frierson (1998-99)¹, Thomas Maertens (1998-99), Martin White (1999)¹, Virginia Miller (1999), Evan Meadors (1999-00), Juliet Christian-Smith (1999), Jimenez Damian (2000)³, Lakesha Grant (2000)¹, Ashlee Penn (2000), Hillary Burgoyne (2000), Nora Leung (2000), Rhonda Wenk (2000), Sara Montgomery (2000), Emanuel Foxx¹ (2001), Ronnie West¹ (2000-02), Sarah Durant (2001), Mandie Greene (2001), Jamelah Wright¹ (2001-02), Kimberly Alexander (2001), Kasia Wachowicz (2001), Crystal Lamb (2001)¹, Daniel Plyler (2001-02), Rose Roll (2001), Sharita Robinson (2001)¹, Kristen Shaw (2001), Elisa Thebault (2001), Michael Simmons¹ (2001-02), Sernetta Williams¹ (2002), Jennifer Foxx¹ (2002), Venus Johnston¹ (2002), Aubrey Gonzales⁴ (2001-), Susan Dukes (2002-), Erika Conklin (2002-), Janak Patel (2002-), Christina White¹ (2002), Morgan Mullaney⁷ (2001-02), Thomas Chow⁷ (2002), Larci Simpson (2003-04)¹, Phuong Pham (2003-04)⁵, Prince Morgan (2003-04)¹, Trevan Lyn (2004)¹, Tequira Whitaker (2002-03)¹, Qunna Roundtree (2002-03)¹, Asha Hampton (2003-04)¹, Shasta McBee (2003-04)¹, Tamara Powell (2004)¹, Lisa Wickliffe (2003-04), Huyen Diep (2003)⁵, Jimal Deas (2004)¹, Stephanie (2004), Jennifer Cantey (2004), Annel Charles (2004)¹, Kristin Reigel (2004), Austin Hughes, Jr. (2004), Emily Roskam (2004), James Lamar (2004), Frances Chang (2005)⁵,

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Shanna Ostermiller (2004-05), Megan Pass (2004-05), Christi Lynn (2005-6), Sarah Waggoner (Malborough College, 2005-06), Micahel Dole (2005-07), Andrew Voris (2005-07), Brooke Allen (2006), Kearri Amos (2006), Tina Pearson (2006), Melinda Sandifer (2006), William Medlin (2006), Chris Laurenzi (2007), William Buyck (2007), Kelli Carson (2007-08)¹, Jessamine Stone (2007-09), Courtney Murray (2007-08)¹, Allison Entfingler (2007-09), David Cann (2010-), Jennifer Allison (2009-10), Castro Gargiulo (2010), David Lucas (2010), Kelly Dow (2009-10), Erin Weeks (2009), Vladimir Nekrutenko (2011-), Kevin Kulungowski (2011-), Sade Sobers (2011-), Leila Heidari (2010-), Humna Fayyaz (2011-), Paul Thomas (2011), Marvin Brown (2011), Rachel Co (2009-10), Fred Gargiulo (2009 -11), Autumn Farley (2008-10), Jason Hubbard (2008 – 11), Joseph Hubbard (2008-11), Jennifer Allison (2007-11), Joseph Colbert (2007-11), Tim Knox (2006-07), Max Schilling (2006), Eliza Stucker (2007), Mira Radieva (2008), Lauren Sharpe (2008), Will Smith (2009), Kayla Broecker (2009), Daniel Young (2013-14), Irraj Iftekhar (2013-14), Michael Owens (2013-16), Angie Korabik (2013-15), Kaitlyn Bretz (2013-17), Alexandra Golden (2013-15), Preston Mousseau (2015), Cutter Boyles (2015-17), Sean Baker (2015-16), Tyler Wright (2015-17), Justin DuRant (2016-18), Mathew McCulloch (2016-17), Ashley Fellers (2016-), Megan Melone (2017-), Hannah Aycock (2017-), Gabby Spatelo (2018), Natalia Hank (2018), Kayla Russell (2018), Jordon Chertok (2018), Courtney Rulison (2018), Jackson Yow (2018-), Andrea Varga (2018), Matthew Waller (2018-), Ryan Hynes (2018-), Madeline Bertauski (2018-), Christopher Chaplin (2018-), Logan Hutto (2018), Allison Schneider (2018), Olivia Brown (2018), Jami Winn (2018), Michael Botta (2018), Caroline Landrum (2018-), Ashton Woodcock (2018), McKay Meyer (2018), Samantha Klakulak (2018), Jessica Clark (2018), Ryan Monroe (2018), Sandra Hanna (2018), Victoria Bosch (2019-20), Jacob Brock (2019), Jessica Clark (2019), Emma Wingard (2019), Angela Hice (2019), Matthew Duggan (2019-20), Ethan Shealy (2019-20), Madison Gillespie (2019-20), Jacob Arnold (2019-20), McKay Meyer (2019-20), Luis Ramos (2019-20), Rachel Maile (2019-20), Taylor Utter (2019-20), Jack Gabel (2019-20), Jess Guarino (2019-20), Lillian Self (2020-), Will Caspino (2020-), Sydney Hampton (2020-), Molly Phelan (2020-), Lydia Pless (2020-), Karl Pless (2020-), Marie Umbarger (2020-21), Olivia Voegelin (2020-), Sophia Vrh (2020-), Brandon Honeycutt (2020-)

Students who have completed honors theses in my lab

Rebecca Heil (1992-94), Amanda Anderson (1993-94), Virginia Groemminger (1992-95), C. Greg Cauthen (1995-96), Emmett Maas (1995-96), Cyndi Roberts (1995-97), Elizabeth Mack (1997-99), Evan Meadors (1999-00), Morgan Mullaney (2001-02), Elisa Thebault (2001), Crystal Lamb (2001)¹, Daniel Plyer (2001-02), Tammy Powell (2004-05), Christina White (2004-05)¹, Sarah Waggoner (Malborough College, 2005-06), Andrew Voris (2007-08), Humna Fayyaz (2013-14), Justin Durant (2016-17), Tyler Wright (2016-17), Angela Korabik (2016-17), Alexandra Golden (2016-17), Jordan Chertok (2018-), Ashley Fellers (2017-), Caroline Landrum (2018-), Christopher Chaplin (2018-19), Matthew Waller (2018-20), Matthew Duggan (2019-20), Jack Gabel (2019-20), Victoria Bosch (2019-20), Will Caspino (2020-), Karl Pless (2020-22), Sophia Vrh (2021-)

GRADUATE STUDENTS

Kim Waddell (PhD 1991-96)¹
Alex Olvido (PhD 1991-98)⁴
Eilleen Lawson (PhD 1997-03)
Jackie Litzgus (PhD 1999-04)
Acchia Albury (PhD 2003-09)¹

Jon Dunn (MSc 1991-94)
Ken Fedorka (PhD 1996-02)³
Wade Winterhalter (PhD 1998-06)
Herrick Brown (MSc 1999-03)
Will Dillman (MSc 2003-6)

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Brent Fuller (PhD 2003-09)
Peter Johnston (MEERM 2003-07)
Larcy Simpson (MAT 2005)¹
De Anna Beasley (PhD 2006-13)¹
Mike Martin (PhD 2009-)
Jennifer Fill (PhD 2010-15)
Daniel Einor (PhD 2012-16)
Melissa Groleau (MSc 2018-19)
Gabriela Spatola (MSc 2018-20)
Gabriela Spatola (PhD 2020-)
Caitlyn Metetal (MSc 2022-)

Stephen Fields (PhD 2004-09)
Carlos Chacon (MEERM 2003-07)³
Josh Castleberry (MEERM 2006)
Shanna Ostermiller (PhD 2006-)
Heather Mackey (MSc 2010-13)
Svitlana Revnuik (PhD 2010-12)
Abdurrahmane Chebli (PhD – visiting from Algeria, 2015)
Leah Hanes (PhD – Antioch University, 2015)
Britany Nichols (PhD 2018-19)
Sarah Todd (MEERM 2022-)

POSTDOCTORAL FELLOWS

Dr. Chuck Fox (1993-96)
Dr. Fran Groeters (1995-96)
Dr. Wayne Gearheart (1994)
Dr. Kirsten Hural (2002-04)
Dr. Jane Kenney-Hunt (2007-9)
Dr. Geir Rudolfsen (2008-9)
Dr. Andrea Bonisoli-Alquati (2010-15)
Dr. Sophia Tintori (2019-22)(@NYU)

Dr. Alex Olvido (1998)⁴
Dr. Mike Musyl (1996-97)
Dr. LaReesa Wolfenberger (1997-98)
Dr. Ken Fedorka (2005)³
Dr. Shane Welch (2007-12)
Dr. Jayme Waldron (2009-12)
Dr. Svitlana Revnuik (2010-12)

MISCELLANEOUS

Certificates:

USGS Master Bird Bander
FAA Certified Private Pilot (SEL, Complex, Remote - UAV)
SCUBA Diver (NAUI and ACUC)
Amateur Radio Operator (KZ4V - Extra class)

Languages:

English (native), French (S2)

Professional Photography:

Many of my photos related to research in Chernobyl and Fukushima have been published online, in videos (i.e. TV productions), in textbooks, and in magazines and newspapers.

Recently, many of my aerial landscape photographs have been widely published in newspapers, magazines, TV and online. Further information and details available upon request.

Selected Press Coverage of the USC Chernobyl Research Initiative

- The New York Times: 10 Years After Fukushima Disaster, This Nurse May Be the Region’s Best Hope (Motoko Rich and Makiko Inoue), March 10, 2021
- The New York Times: Forest Fires Threaten New Fallout From Chernobyl (Rachel Nuwer), April 7, 2015
- The New York Times: At Chernobyl, Hints of Nature’s Adaptation (Henry Fountain), May 5, 2014.
- The New York Times: The Animals of Chernobyl (Erik Olsen)(video), May 5, 2014 (7M views on YouTube).
- The New York Times: Fukushima vs. Chernobyl: How have animals fared? (Rachel Nuwer), July 12, 2012
- The New York Times: Chernobyl Taking a Toll on Invertebrates Too (Henry Fountain), March 23, 2009
- The New York Times: Did Chernobyl Leave an Eden for Wildlife? (Henry Fountain), August 28, 2007.
- The New York Times: Saving Pets from radiation in Japan (Anahad O’Connor), November 11, 2011

- Le Scienze (Italian Scientific American): [Incontri sulla medicina: Come si Studiano Chernobyl e Fukushima](#) (Paolo Magliocco), October, 2017.
- Scientific American: The Swallows of Fukushima (Steven Featherstone), February, 2015
- Scientific American: Crippled Fukushima reactors are still a dander, 5 years after the accident (Madhusree Mukerjee), March 8, 2016

- The Economist: Something Glowing On, May 3rd, 2014.
- The Economist: Radiation and Birds: Not So Blindingly Obvious, Sept 7, 2013
- The Economist: Surviving fallout: Birds can evolve to cope with the lingering effects of nuclear incidents (March 3rd, 2012).
- The Economist: Plumes and Plumage: Sexual selection and Chernobyl (12 July 2007).

- BBC News: Chernobyl’s legacy recorded in trees (Mark Kinver), August 8, 2013
- BBC News: Chernobyl mammals tracked in snow (Victoria Gill), December 31, 2012.
- BBC Nature Feature: Chernobyl: A field trip to no man’s land (Victoria Gill), July 26, 2011
- BBC News: Chernobyl birds are small brained (Matt Walker), February 5, 2011
- BBC News: Chernobyl species decline linked to DNA (Victoria Gill), August 20, 2010
- BBC News: Chernobyl zone shows decline in biodiversity (Victoria Gill), July 30, 2010
- BBC News: Working in the Chernobyl ‘zone of alienation”, August 20, 2010
- BBC News: Chernobyl ‘shows insect decline’ (Victoria Gill), March 18, 2009
- BBC News: Chernobyl ‘not a wildlife haven’ (Mark Kinver), August 14, 2007
- BBC News: Chernobyl’s Legacy still undecided (Mark Kinver), April 24, 2006
- BBC News: “Severe abnormalities” found in Fukushima butterflies (Nick Compton), Aug 13, 2012

- Deutch Welle: Nuclear accidents make mutant bugs and birds (interview with Tim Mousseau)(Nils Zimmerman), April 2016. <http://dw.com/p/1I8RH>
- The Ecologist: Blind mice and bird brains: the silent spring of Chernobyl and Fukushima (Linda Pentz Gunter), April 25, 2016.
- Insight Magazine (Qiagen): Interview with Professor Mousseau (Tobias Moorstedt), April 21, 2016.
- Taipei Times: US academic shares work on effects of nuclear disasters (Chen Wei-han), January 27, 2016.
- The China Post: Even low radiation dose can take toll: scientist (Enru Lin), January 27, 2016.

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- The Toronto Star: What zombie trees tell us about the world’s worst nuclear disaster (Mitch Potter), December 9, 2015
- The Toronto Star: Life and Death in Chernobyl’s Ghost Forest (Mitch Potter), May 17, 2014
- The Toronto Star: How To Stay Safe in Ukraine – From Radiation and War (Mitch Potter), May 19, 2014
- Der Standard: Streit um Folgen von Verstrahlung fur Tier (Susanne Strnadl), March 14, 2016
- The Frankfurter Allgemeine: Die lauten vogel von Fukushima (Nora Pfutzenreuter), June 12, 2014

- Harpers Magazine: Spent Fuel: The Risky Resurgence of Nuclear Power (Andrew Cockburn), January 2022.
- Harpers Magazine: Life in the Zone: What we’re still learning from Chernobyl (Steve Featherstone), June 2011
- Audubon Magazine: How has Fukushima’s nuclear disaster affected the environment? (Jane Braxton Little), March 9, 2012
- MotherJones: Creepy Chernobyl Birdsong (Julia Whitty), April 12, 2012
- MotherJones: Birds Near Fukushima Hit Harder Than at Chernobyl (Julia Whitty), Feb 8, 2012
- The Chronicle of Higher Education: People: 5 minutes with Tim Mousseau, who studies radiation (David McNeill), July 24, 2011.
- Wired Magazine: Is Chernobyl a wild kingdom or a radioactive den of decay? (Adam Higginbotham), May 2011.
- Nature News: When being colourful doesn’t pay (Lucas Laursen), May 4, 2011
- CNN: Chernobyl: Environmental dead zone or eco-haven? (Matthew Knight), January 14, 2011
- CNN International: Learning Lessons from Chernobyl to Fukushima (David McNeil), July 28, 2011
- The National Geographic: Chernobyl Birds’ Defects Link Radiation, Not Stress, to Human Ailments (Kate Ravilious) April 18, 2007
- PBS News Hour: What’s the Fallout of Dogs New Fukushima? (Jenny Marder), Nov 10, 2012

Selected Radio, Television, and Miscellaneous Coverage of the Chernobyl Research Initiative

- BYU Radio / SiriusXM: Constant Wonder, “[Chernobyl Animals](#)”, Feb 18, 2021
- CBC Radio: [Quarks & Quarks](#), “Chernobyl Fires”, June 27, 2020
- NPR: “A new wildlife refuge on the grounds around an old nuclear weapons plant”, Sept 15, 2018
- Nat Geo special: “One Strange Rock: Escape”, April, 2018
- Nat Geo Wild: “Life After Fukushima”, March, 2018
- CBS TV: “60 Minutes”, Interview with Bob Simon, November, 2014
- Animal Planet TV: Life After: Chernobyl, April 26, 2016
- Animal Planet: River Monsters with Jeremy Wade: “Atomic Assassin”, Spring 2013.
- Science Channel: What on Earth, appearances in three episodes aired 2015-17.
- Australian Broadcast Company (ABC): Chernobyl disaster: 30 years on, on RN Breakfast, April 25, 2016. (<https://radio.abc.net.au/programitem/pgYOG2XmDV?play=true>)
- NHK TV: Five Years Since Fukushima, March 2016
- HUFFPOST Live (WorldBrief with Carol Moderassy) : Record radiation readings near Fukushima, Sept 4, 2013.
- HUFFPOST Live (Hosted by Josh Zepps): Fukushima 2 Years Later, March 13, 2013 (5:36 in)
- WIS TV News: Fukushima Two Years Later (Hannah Horne), March 12, 2013

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- C-SPAN: NCSE - 2013 Disaster Conference, Ronald Reagan Building, Plenary Session Japan's 2011 Earthquake, January 15, 2013
- CBC Radio: As It Happens: Fukushima Butterflies, August 15, 2012
- BBC Radio: Material World: August 16, 2012 (8 minutes in)
- CBC Radio: As It Happens: Chernobyl Birds (Carol Off & Jeff Douglas), April 16, 2012 (13 minutes in)
- "Tchernobyl: Une histoire naturelle" (Chernobyl: A Natural History, 2010)
- The CBC "As It Happens" (April 3, 2007)
- The CBC: "Quirks and Quarks": (April 29, 2006)
- PBS NewsHour: After 500 Years in Family, Rice Farmers Forced Off Land by Fukushima (Miles O'Brien), March 12, 2012
- PBS NewsHour: Revisiting Chernobyl: A nuclear disaster site of epic proportions (Miles O'Brien), March 29, 2011
- CNN: American Morning: Radiation detected in Japanese fish Localized to small coastal area, April 6th, 2011

Latest Newspaper Coverage:

- NPR: "A new wildlife refuge on the grounds around an old nuclear weapons plant" (Dan Boyce), Sept 15, 2018
- Charleston Post and Courier: A USC researcher is studying how radiation is affecting these strays left behind near Chernobyl (MK Wildeman), May 14, 2018
- Newsweek: Meet the dogs of Chernobyl: These wild animals are up for adoption (Lisa Spear), July 22, 2018
- Galileu: Filhotes de cachorros nascidos em Chernobyl podem ser adotados, July 22, 2018
- Second Nexus: Study: Nesting house finches added cigarette butts to their nests in order to repel parasitic ticks (Kat Merck), Aug 21, 2018
- National Geographic: Chernobyl's mutated species may help protect astronauts (Nick Lunn), April 30, 2018. (translated to Italian, Czech)
- National Geographic: Could Chernobyl wolves be spreading mutations? (Douglas Main), July 16, 2018
- National Geographic (Cesko): ZVÍŘATA Z ČERNOBYLU: CO S NIMI BYLO PO VÝBUCHU A JAK VYPADAJÍ DNES? (Redakce), July 23, 2018
- Deutsche Welle: Nuclear accidents make mutant bugs and birds, April 26, 2018
- Smithsonian: Chernobyl puppies going up for adoption in the U.S. (Jason Daley), May 16, 2018
- Science Trends: Mutated Chernobyl animals can teach astronauts (Kate Broome), May 1, 2018
- The Colorado Independent: Scientists testify Rocky Flats National Wildlife Refuge remains contaminated (Josh Schlossberg), July 18, 2018
- The Denver Post: Dispute over Rocky Flats Wildlife Refuge opening to public comes to Federal court Tuesday (Bruce Finley), July 17, 2018
- Il Manifesto: La carica nucleare degli animali mutant (Andrea Capocci), Oct 10, 2017
- La Gran Epoca: Pescadores japoneses capturan un enorme "monstruo" cerca del sitio, Dec 11, 2017 (also in French, German)
- LiFO: Τα μεταλλαγμένα πλάσματα του Τσερνομπίλ ίσως κρύβουν ένα σημαντικό μυστικό για τα διαστημικά ταξίδια Πηγή (Greek National Geographic), Feb 5, 2018
- OggiScienza: Il lungo viaggio di un lupo di Chernobyl (E. Degano), July 19, 2018

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- Venezuela al Dia: Chernóbil y la fauna, por Noel Álvarez (Pomara), July 2, 2018
- Earth Touch News Network: Holy carp, this is one freaky fish (but it's not a radiation mutant)(Sarah Keartes), Aug 16, 2017
- News Market: 核食開放爭議不休 美專家指大量輻射殘留三十年 仍在食物鏈中傳遞 (Taiwan), June 2, 2017
- Science Post: Les chiens de Tchernobyl sont mis à l'adoption (Brice Louvet), July 26, 2018