

# *Curriculum Vitae*

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### **Research interests**

My principal interest is in the application of decision science to problems in natural resource management. Such applications require a multi-disciplinary approach to engage stakeholders in the decision-making process, to predict the responses of ecological systems to controlled and uncontrolled drivers, to elicit societal values regarding the consequences of management policy, and to develop monitoring programs to compare predicted and realized system behaviors. I am particularly active in migratory bird management, with experience in problems of recreational and subsistence harvest, pest control, and habitat management. My scientific expertise is mostly in the areas of population ecology, statistical inference, dynamic systems modeling, and optimal decision making.

### **Education**

- Ph.D. (Doctor of Philosophy), University of Florida, 2010  
Major: Wildlife Ecology and Conservation  
Dissertation title: Analysis and Management of Migratory Birds in North America
- M.S. (Master of Science), Texas A&M University, 1981  
Major: Wildlife and Fisheries Sciences
- B.S. (Bachelor of Science) Magna Cum Laude, West Virginia University, 1978  
Major: Wildlife Resources

## Employment

- 2020 – present: Senior Research Scientist, Aarhus University, Department of Bioscience, Denmark – serve as principal investigator for the development, implementation, and evaluation of adaptive management programs in Europe; assist in the development and delivery of graduate student curricula in decision science.
- 2007 – 2019: Research Wildlife Biologist, Wetland and Aquatic Research Center, U.S. Geological Survey, Gainesville, Florida – serve as principal investigator focusing on the application of ecological theory, statistical modeling and estimation, and decision analysis to real-world problems in natural resource management.
- 1989 – 2007: Wildlife Biologist (Management), Division of Migratory Bird Management, U.S. Fish & Wildlife Service, Laurel, Maryland - responsible for evaluating, designing, and conducting resource monitoring and assessment programs to improve conservation programs; functioned as an agency representative on technical matters at state, national, and international meetings and conferences where migratory bird management and research were planned, coordinated, and reviewed.
- 1981-1989: Waterfowl Management Program Coordinator, Florida Game and Fresh Water Fish Commission, Okeechobee, Florida - responsible for planning, implementing, and overseeing waterfowl conservation activities for the State of Florida.

## Teaching Experience

- Wildlife Ecology and Adaptive Management, Aarhus University, DK
- Decision Making in Wildlife & Fisheries Management, University of Florida, USA
- Introduction to Structured Decision Making, National Conservation Training Center, USA
- Structured Decision Making and Adaptive Management, International Research School in Applied Ecology, DK
- Adaptive Management: Structured Decision Making for Recurrent Decisions, National Conservation Training Center, USA

## Publications *(not including “gray” literature)*

- Johnson, F. A., and K. Koffijberg. 2021. Biased monitoring data and an info-gap model for regulating the offtake of greylag geese in Europe. *Wildlife Biology* 2021: In press.
- Johnson, F. A., H. Heldbjerg, S. Nagy, and J. Madsen. 2021. Setting population-size targets for geese causing socio-economic conflicts. *Ambio* 50: In press.
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- Johnson, F. A., M. J. Eaton, J. Mikels-Carrasco, and D. Case. 2020. Building adaptive capacity in a coastal region experiencing global change. *Ecology and Society* 25:art9.
- O'Donnell, K. M., P. L. Fackler, F. A. Johnson, M. N. Bonneau, J. Martin, and S. C. Walls. 2020. Category count models for adaptive management of metapopulations: Case study of an imperiled salamander. *Conservation Science and Practice* 2:e180.
- Johnson, F. A., G. S. Zimmerman, G. H. Jensen, K. K. Clausen, M. Frederiksen, and J. Madsen. 2020. Using integrated population models for insights into monitoring programs: An application using pink-footed geese. *Ecological Modelling* 415:108869.

- Eaton, M. J., S. Yurek, Z. Haider, J. Martin, F. A. Johnson, B. J. Udell, H. Charkhgard, and C. Kwon. 2019. Spatial conservation planning under uncertainty: adapting to climate change risks using modern portfolio theory. *Ecological Applications* 29(7):e01962.
- Martin, D. M., and F. A. Johnson. 2020. A multi-armed bandit approach to adaptive water quality management. *Integrated Environmental Assessment and Management* 16:841–852.
- Johnson, F.A., Zimmerman, G.S., Huang, M.T., Padding, P.I., Balkcom, G.D., Runge, M.C., Devers, P.K., 2019. Multi-species duck harvesting using dynamic programming and multi-criteria decision analysis. *J. Appl. Ecol.* 0. <https://doi.org/10.1111/1365-2664.13377>
- Bonneau, M., Martin, J., Peyrard, N., Rodgers, L., Romagosa, C.M., Johnson, F.A., 2019. Optimal spatial allocation of control effort to manage invasives in the face of imperfect detection and misclassification. *Ecol. Modell.* 392, 108–116. <https://doi.org/10.1016/J.ECOLMODEL.2018.11.012>
- Humburg, D.D., Anderson, M.G., Brasher, M.G., Carter, M.F., Eadie, J.M., Fulton, D.C., Johnson, F.A., Runge, M.C., Vrtiska, M.P., 2018. Implementing the 2012 North American Waterfowl Management Plan revision: Populations, habitat, and people. *J. Wildl. Manage.* 82, 275–286. <https://doi.org/10.1002/jwmg.21391>
- Roberts, A., Eadie, J.M., Howerter, D.W., Johnson, F.A., Nichols, J.D., Runge, M.C., Vrtiska, M.P., Williams, B.K., 2018. Strengthening links between waterfowl research and management. *J. Wildl. Manage.* 82, 260–265. <https://doi.org/10.1002/jwmg.21333>
- Williams, B.K., Johnson, F.A., 2018. Value of sample information in dynamic, structurally uncertain resource systems. *PLoS One* 13, e0199326. <https://doi.org/10.1371/journal.pone.0199326>
- Bonneau, M., Sabbadin, R., Johnson, F.A., Stith, B., 2018. Dynamic minimum set problem for reserve design: Heuristic solutions for large problems. *PLoS One* 13, e0193093. <https://doi.org/10.1371/journal.pone.0193093>
- Johnson, F.A., Alhainen, M., Fox, A.D., Madsen, J., Guillemain, M., 2018. Making do with less: must sparse data preclude informed harvest strategies for European waterbirds? *Ecol. Appl.* 28, 427–441. <https://doi.org/10.1002/eap.1659>
- Nichols, J., F. Johnson, B. Williams, and S. Boomer. 2018. Science alive and well in North American wildlife management: a response to Artelle et al. Hallmarks of science missing from North American wildlife management. *Science Advances* 4(3): eaa0167. <https://advances.sciencemag.org/content/4/3/eaa0167/tab-e-letters>.
- Romañach, S.S., Stith, B., Johnson, F.A., 2018. Designing a Protected Area to Safeguard Imperiled Species from Urbanization. *J. Fish Wildl. Manag.* 9, 072017-JFWM-060. <https://doi.org/10.3996/072017-JFWM-060>
- Williams, B. K., and F. A. Johnson. 2017. Frequencies of decision making and monitoring in adaptive resource management. *PLoS ONE* 12:e0182934.
- Johnson, F.A., Smith, B.J., Bonneau, M., Martin, J., Romagosa, C., Mazzotti, F., Waddle, H., Reed, R.N., Eckles, J.K., Vitt, L.J., 2017. Expert Elicitation, Uncertainty, and the Value of Information in Controlling Invasive Species. *Ecological Economics* 137, 83-90.
- Koneff, M.D., Zimmerman, G.S., Dwyer, C.P., Fleming, K.K., Padding, P.I., Devers, P.K., Johnson, F.A., Runge, M.C., Roberts, A.J., 2017. Evaluation of harvest and information needs for North American sea ducks. *PLoS ONE* 12, e0175411.
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- Madsen, J., K. K. Clausen, T. K. Christensen, and F. A. Johnson. 2016. Regulation of the hunting season as a tool for adaptive harvest management — first results for pink-footed geese *Anser brachyrhynchus*. *Wildlife Biology* 22:204-208.
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