

Curriculum vita
Kelly Filer Robinson

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EDUCATION

Ph.D., Forest Resources (Fisheries Science), **University of Georgia**, Athens, GA, May 2011

M.S., Marine Biology, **College of Charleston**, Charleston, SC, December 2006

B.A., Biology, Spanish, **University of Virginia**, Charlottesville, VA, May 2001

PROFESSIONAL EXPERIENCE

March 2016–present. Assistant Professor. Quantitative Fisheries Center, Department of Fisheries and Wildlife, Michigan State University, East Lansing, MI.

April 2015–February 2016. Independent Consultant- Decision Analysis and Data Analysis.

March 2012–March 2015. Postdoctoral Research Associate. New York Cooperative Fish and Wildlife Research Unit, Department of Natural Resources, Cornell University, Ithaca, NY.

January 2007–August 2011. Graduate Research Assistant / Research Professional III. Georgia Cooperative Fish and Wildlife Research Unit, University of Georgia, Athens, GA.

September 2006–December 2006. Laboratory Technician, Freshwater Fish Ecology Lab, University of Georgia, Athens, GA.

May 2004–August 2006. Graduate Research Assistant, South Carolina Department of Natural Resources, Charleston, SC.

October 2002–May 2003. Laboratory Technician, Fish Systematics Lab, Old Dominion University, Norfolk, VA.

July 2001–May 2002. Biomolecular Research Facility DNA Sequencing Lab, University of Virginia, Charlottesville, VA.

CONTRACTS AND GRANTS

- 2017 Grass Carp Structured Decision Making to Inform Adaptive Management Framework. Michigan Department of Natural Resources, **\$80,000**
- 2017 Professional Development Micro-grant, MSU College of Agriculture and Natural Resources, **\$2500**
- 2016 Comparison of Decision Making Techniques for Selection of River Connectivity Projects in the Michigan Fruitbelt. Great Lakes Fishery Commission, **\$152,622**

PEER-REVIEWED PUBLICATIONS

- Lin, H., K.F. Robinson, A. Milt, L. Walter. In review. The application of web-based decision support tools and the value of local information in prioritizing barrier removal, a case study in northwest lower Michigan, USA. *Environmental Modelling and Software*.
- Robinson, K.F., A.K. Fuller, R.C. Stedman, W.F. Siemer, D.J. Decker. In review. Integration of social and ecological science in natural resource decision making: challenges and opportunities. *Environmental Management*.
- Robinson, K.F., A.K. Fuller, M.V. Schiavone, B.L. Swift, D.R. Diefenbach, W.F. Siemer, D.J. Decker. 2017. Addressing wild turkey (*Meleagris gallapavo*) population declines using structured decision making. *Journal of Wildlife Management* 81(3): 393–405.
- Robinson, K.F., A.K. Fuller, J.E. Hurst, B.L. Swift, A. Kirsch, J. Farquhar, D.J. Decker, W.F. Siemer. 2016. Structured decision making as a framework for large-scale wildlife harvest management decisions. *Ecosphere* 7(12): e01613.
- Cohen, J., Hecht, A., K.F. Robinson, E.E. Osnas, A.J. Tyre, C. Davis, A. Kocek, B. Maslow, S. Melvin. 2016. To exclose nests or not: structured decision making for the conservation of a threatened species. *Ecosphere* 7(10):e01499.
- Robinson, K.F., D.R. Diefenbach, A.K. Fuller, J.E. Hurst, C.S. Rosenberry. 2014. Can managers compensate for coyote predation of white-tailed deer? *Journal of Wildlife Management* 78:571–579.
- Robinson, K.F. and C.A. Jennings. 2014. Productivity of functional guilds of fishes in managed wetlands in coastal South Carolina. *Journal of Fish and Wildlife Management* 5:70–86.
- Robinson, K.F. and C.A. Jennings. 2014. A comparison of resident fish assemblages in managed and unmanaged coastal wetlands in North Carolina and South Carolina, USA. *Southeastern Naturalist* 13:237–260.
- Robinson, K.F. and C.A. Jennings. 2012. Maximizing recruitment of age-0 spot (*Leiostomus xanthurus*) from a South Carolina estuary: an evaluation of coastal impoundment

management alternatives via structured decision-making. *Marine and Coastal Fisheries: Dynamics, Management, and Ecosystem Science* 4:156–172.

Filer, K.R. and G.R. Sedberry. 2008. Age, growth and reproduction of the barrelfish *Hyperoglyphe perciformis* (Mitchill) in the western North Atlantic. *Journal of Fish Biology* 72:861–882.

BOOK CHAPTERS

Robinson, K.F. and A.K. Fuller. 2017. Guiding stakeholders through the process: Participatory modeling and structured decision making. *In: Including Stakeholders in Environmental Modeling: Considerations, Methods, and Applications*. S. Gray, M. Paolisso, S. Gray, and R. Jordan, editors.

TECHNICAL REPORTS

Volkel, S., and K.F. Robinson. 2017. Sculpin workshop report. Report to the Great Lakes Fishery Commission, Ann Arbor, MI.

Wood, J., S. Veloz, G. Block, K.F. Robinson. 2016. San Pablo Bay National Wildlife Refuge Climate Adaptation Plan. Report to the San Pablo Bay NWR and San Francisco Bay Joint Venture, San Francisco, CA.

Robinson K.F., C. Brown-Lima, C. Marschner, P. Barrett, R. Williams, A. Locke, H. Mosher, S. Young, B. Quirion, L. Gailor, M. Marquand, L. Rohleder, B. Blossey, S. Bachman, J. Dean, D. Adams, L. Suprenant, M. Taylor, B. O'Brien. 2015. Developing criteria for invasive species priority setting in New York State. Report from the structured-decision making workshop, Cornell University, Ithaca, NY.

Robinson, K.F., A.K. Fuller. 2015. A structured decision making approach to white-tailed deer buck harvest management in New York State. Report to the New York State Department of Environmental Conservation, Albany NY.

Robinson, K.F., A.K. Fuller. 2015. A structured decision making approach to mitigating wild turkey population decline in New York State. Report to the New York State Department of Environmental Conservation, Albany, NY.

Huning, B., B.J. Mattsson, C. Sloop, G. Block, J. Cummings, W. Murray, K.F. Robinson. 2015. Developing a spatially-explicit climate adaptation framework for estuarine ecosystems of the San Francisco Bay: Climate Adaptation for Decision Support. San Francisco Bay Joint Venture, Fairfax, CA.

Hecht, A., K.F. Robinson, E.E. Osnas, J. Cohen, A.J. Tyre, D. Brinker, C. Davis, M. Hake, L. Johnson, E. King, A. Kocek, B. Maslow, S. Melvin, T. Pover, L.M. Zitske, D.C. Brewer, F. Johnson. 2014. Balancing demographic benefits and risks of using predator exclosures on U.S. Atlantic Coast piping plover nests. National Conservation Training Center,

Shepherdstown, WV. <http://training.fws.gov/courses/ALC/ALC3159/reports/final-reports/2014FR/Hecht-et-al-2014-Piping-Plover-Predator-Enclosures.pdf>

OTHER PUBLICATIONS

Robinson, K.F., C. Barans, M. Arendt. In press. Predictions of the presence of coastal pelagic fishes off Georgia, USA, from local oceanographic and biological conditions. Proceedings of the 70th Gulf and Caribbean Fisheries Institute.

INVITED SEMINARS AND PRESENTATIONS

Robinson, K.F. 2017. Introduction to structured decision making. Strategic Discussion of National Asian Carp Management and Control. Springfield, IL, January 18–19.

Robinson, K.F. 2013. Structured decision making in natural resources management. Cornell University, Department of Natural Resources Fall Seminar Series, Ithaca, NY, October 29.

Robinson, K.F. and C.A. Jennings. 2011. A comparison of the fish communities in managed and unmanaged wetlands in coastal South Carolina. Fort Johnson Marine Science Seminar Series, Charleston, SC, August 26.

CONTRIBUTED PRESENTATIONS

Robinson, K.F., C. Barans, M. Arendt. 2017. Predictions of the presence of coastal pelagic fishes off Georgia, USA, from local oceanographic and biological conditions. 70th Annual Conference of the Gulf and Caribbean Fisheries Institute, Mérida, Mexico, November 6–10.

DuFour, M., S.J. Herbst, N.D. Popoff, T. Newcomb, J. Francis, R. Carter, J. Navarro, M. Jones, K.F. Robinson, T.O. Brenden, A. Mahon, K. Pangle, J. Tyson. 2017. Multi-jurisdictional collaborations and structured approach for grass carp control in Lake Erie. Fort Lauderdale, FL, October 26.

Fuller, A.K., K.F. Robinson, R.C. Stedman, W.F. Siemer. 2017. Integration of social and ecological sciences for natural resource decision making: challenges and opportunities. Annual Meeting of The Wildlife Society, Albuquerque, NM, September 23–27.

Robinson, K.F., A.K. Fuller, D.R. Diefenbach, M. Casalena, and M.V. Schiavone. 2014. A structured decision-making approach to regulated fall turkey harvest in New York and Pennsylvania. 70th Annual Northeast Fish and Wildlife Conference (Northeast Association of Fish and Wildlife Agencies), Portland, ME, April 13–15.

Robinson, K.F. and W.L. Fisher. 2013. A structured decision-making approach to fish stocking in Owasco Lake, NY. Annual Meeting of the American Fisheries Society, Little Rock, AR, September 9–13.

Robinson, K.F. and A.K. Fuller. 2013. A structured decision-making approach to white-tailed deer (*Odocoileus virginianus*) buck harvest management in New York State. 69th Annual Northeast Fish and Wildlife Conference (Northeast Association of Fish and Wildlife Agencies), Saratoga Springs, NY, April 7–9.

Robinson, K.F. and C.A. Jennings. 2012. Maximizing recruitment of YOY spot (*Leiostomus xanthurus*) from a South Carolina estuary: an evaluation of coastal impoundment management alternatives via structured decision-making. Adaptive Management Conference Series, Cornell University, Ithaca, NY, June 12–14.

Robinson, K.F. and C.A. Jennings. 2011. Productivity of functional guilds of fishes in managed wetlands in coastal South Carolina. Annual Meeting of the American Fisheries Society, Seattle, WA, September 4–8.

Robinson, K.F. and C.A. Jennings. 2011. A comparison of resident fish communities in managed and unmanaged wetlands in North Carolina and South Carolina, USA. Annual Meeting of the American Fisheries Society, Seattle, WA, September 4–8.

Robinson, K.F. and C.A. Jennings. 2011. Productivity of functional guilds of fishes in managed wetlands in coastal South Carolina. Joint Meeting of Society of Wetland Scientists, WETPOL, and Wetland Biogeochemistry Symposium, Prague, Czech Republic, July 3–8.

SCIENTIFIC AND PUBLIC SERVICE

Faculty Appointments

- Assistant Professor, Michigan State University, 2016–Present
- Adjunct Faculty, Graduate Program in Marine Biology, College of Charleston, 2014–2016

Courses Taught

Spring Semester 2017. Co-Instructor, Adaptive Management of Natural Resource Systems (FW 854), Michigan State University, East Lansing, MI.

Graduate Student and Postdoctoral Research Associate Advising

Current Graduate Students

- Shea Volkel, M.S., Evaluation of changes in sculpin populations in the Great Lakes

Current Postdoctoral Research Associates

- Dr. Mark DuFour, Grass carp structured decision making to inform an adaptive management framework
- Dr. Hsien-Yung Lin, Evaluating decision support tools for barrier removal in northwestern lower Michigan

Current Graduate Student Advisory Committees

- Alex Wright, Ph.D., Department of Integrative Biology, Michigan State University
- Jonathan Cook, Ph.D., Department of Fisheries and Wildlife, Michigan State University

Decision Analysis Leadership

- Facilitator and lecturer, Fish Production and Barrier Removals: A Structured Decision Making Workshop for Great Lakes Fisheries Managers, Detroit, MI and Toronto, ON, November 14–17, 2016.
- Facilitator and decision analyst, Structured Decision Making for the Management of Grass Carp in Lake Erie, East Lansing, MI, December 2016–October 2017.
- Facilitator and Core Team member, San Pablo Bay National Wildlife Refuge Adaptation Plan, Petaluma, CA, February–December 2016.
- Workshop leader, Structured Decision Making and Natural Resources Management. Developed and led a workshop for the leaders of the Freshwater Fisheries and Wildlife sections of the South Carolina Department of Natural Resources, December 9, 2014.
- Structured decision-making coach, San Francisco Bay Climate Adaptation Decision Support, developing decision analytic tools to conserve San Francisco Bay estuarine ecosystems, April 2014–March 2015.
- Apprentice coach, Balancing Demographic Benefits and Risks of Using Predator Exlosures on U.S. Atlantic Coast Piping Plover Nests, USFWS/USGS Structured Decision Making Workshop, National Conservation Training Center, Shepherdstown, WV, December 9–12, 2013.
- Netica expert, decision model workshop for conservation of the endangered Allegheny woodrat, State College, PA, March 11–13, 2013.

Workshops Conducted

- Organized and facilitated workshop on the sculpins of the Great Lakes for the Great Lakes Fishery Commission's Re-establishment of Native Deepwater Fishes theme. Great Lakes Science Center, Ann Arbor, MI. Jun 5–6, 2017.

Miscellaneous Professional Service

- Science Panelist, Great Lakes Science in Action Symposium, Central Michigan University, October 20, 2017.

- Member, Great Lakes Fishery Commission Board of Technical Experts, December 2017–present.
- Member, Great Lakes Fishery Commission Sea Lamprey Research Board, December 2016–present.
- Co-chair of the Cornell University Department of Natural Resources Postdoctoral Researcher Association, Fall 2013–Spring 2014.
- Chaired the technical session “Wetlands Management I” at the Joint Meeting of Society of Wetland Scientists, WETPOL, and Wetland Biogeochemistry Symposium, Prague, Czech Republic, July 2011.

Rendering Scientific Judgment

I have provided peer reviews for the following journals:

- Cahiers de Biologie Marine
- Environmental Modelling and Software
- Integrated Environmental Assessment and Management
- Journal of Fish Biology
- Journal of Wildlife Management
- Proceedings of the Southeastern Association of Fish and Wildlife Agencies
- Wetlands Ecology and Management
- Wildlife Society Bulletin

I have provided peer reviews for the following books:

- Case studies in decision analysis for natural resource management

Service Presentations and Writing

- Reversing Wild Turkey Population Declines. 2014. Article for the Wildlife Management Institute Magazine.
- The Ecology of Fishes in Impoundments in Coastal South Carolina. October 2007. Poster and presentation at Friends of Nemours fundraiser.
- The Elusive Barrelfish: an Enigma Wrapped in a Mystery. Written for Estuary to the Abyss cruise of NOAA Ocean Exploration project, August 2004.
<http://oceanexplorer.noaa.gov/explorations/04etta/background/barrelfish/barrelfish.html>
- Expanding Fisheries and Fishery Potential on the Blake Plateau. Written for Estuary to the Abyss cruise of NOAA Ocean Exploration project, August 2004.

<http://oceanexplorer.noaa.gov/explorations/04etta/background/fisheries/fisheries.html>

Professional Society Membership and Offices Held

- Sigma Xi Scientific Research Society, associate member
- Ecological Society of America, member
- American Fisheries Society, member
- University of Georgia Student Subunit of the American Fisheries Society, member, Secretary May 2008–December 2009

TECHNICAL TRAINING RECEIVED

- Adaptive Management, workshop participant, National Conservation Training Center, Shepherdstown, WV, September 11–15, 2017.
- Collaboration and Conflict Transformation, workshop participant, National Conservation Training Center, Shepherdstown, WV, November 28–December 2, 2016.
- Decision Analysis: Tools, workshop participant, National Conservation Training Center, Shepherdstown, WV, March 3–8, 2013
- Decision Analysis: Expert Elicitation and Facilitation, workshop participant, National Conservation Training Center, Shepherdstown, WV, December 3–7, 2012
- Likelihood and Bayesian Approaches to Data Analysis for Ecologists, workshop participant, State University of New York College of Environmental Science and Forestry, Syracuse, NY, May 29–June 2, 2012
- Advanced Structured Decision Making practicum, participant, National Conservation Training Center, Shepherdstown, WV, (remote-access), March 12–16, 2012
- USFWS/USGS Structured Decision Making Workshop, observer, National Conservation Training Center, Shepherdstown, WV, February 6–10, 2012
- Emerging Leaders Program, Graduate School of the University of Georgia, October 2010
- Motorboat Operator Certification Course, US Department of the Interior, Lake Russell, GA, August 2009
- Defensive Driving Certification, US Geological Survey, November, 2013