

# Auriel M.V. Fournier

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## Professional Appointments & Education

**Director** Forbes Biological Station

**Assistant Research Scientist** Illinois Natural History Survey  
University of Illinois Urbana-Champaign - June 2019-Present

**Postdoctoral Researcher** - Mississippi State University - April 2017-May 2019  
Dr. Mark Woodrey and Dr. Jim Lyons, Supervisors

Structured Decision Making To Facilitate Coordinated Avian Monitoring in the Gulf of Mexico  
Coordination of The Gulf of Mexico Avian Monitoring Network

**Ph.D. in Biological Sciences** - Arkansas Cooperative Fish & Wildlife Research Unit  
2017 **University of Arkansas** - Dr. David G. Krentz, Adviser

Phenology, Habitat Use, and the Impacts of Wetland Management on Autumn Migrating Rails

**Bachelor of Science in Wildlife Ecology and Management** - Minor *Remote Sensing*  
2011 **Michigan Technological University** Houghton, MI - Magna Cum Laude

## Professional Leadership

**Second Vice President** Wilson Ornithological Society 2021-Present

**Technical Committee Member** Upper Mississippi River Great Lakes Joint Venture

**Chair** Gulf of Mexico Avian Monitoring Network 2021-Present

**Subject Editor** Avian Conservation & Ecology - 2019-Present

**Associate Editor** Wilson Journal of Ornithology - 2021-Present

**Subject Editor** Illinois Natural History Survey Bulletin 2019-Present

**Editorial Board** Waterbirds 2020-Present

**Research Committee Co-Chair** Black Swamp Bird Observatory - 2016-Present

## Peer-Reviewed Publications

26 peer reviewed journal articles, 2 student led, 18 first author

# graduate student

Stuber, EF, Robinson, O, Bjerre, E, Otto, Mk, Millsap, B, Zimmerman, G, Brasher, MG, Ringelman, KM, **Fournier, AMV**, Yetter, A, Isola, JE, Ruiz-Gutierrez, V. 2022 *The potential of semi-structured citizen science data as a supplement for conservation decision-making: Validating the performance of eBird against targeted avian monitoring efforts* **Biological Conservation** doi:10.1016/j.biocon.2022.109556

Klimas, ST #, Osborn, JM, Yetter, AP, Lancaster, JD, Jacques, CN, **Fournier, AMV**, Hagy, HM. 2022. *Food selection by spring-migrating green-winged teal* **Journal of Fish and Wildlife Management** 13(1):155–16 doi:10.3996/JFWM-21-075

Butler, CJ, **Fournier, AMV**, Wilson, JK. 2021 *Estimates of breeding season location for 4 mesic prairie bird species wintering along the Gulf Coast* **Wilson Journal of Ornithology** 133:177-189 doi:10.1676/19-00151

- Fournier, AMV**, Wilson, RR, Lyons, JE, Gleason, JS, Adams, EM, Barnhill, LM, Brush, JM, Cooper, RJ, DeMaso, SJ, Driscoll, MJL, Eaton, MJ, Frederick, PC, Just, MG, Seymour, MA, Tirpak, JM, and Woodrey, MS. 2021 *Structured decision making and optimal bird monitoring in the northern Gulf of Mexico* **U.S. Geological Survey Open-File Report** 2020-1122, 62 p. doi:10.3133/ofr20201122.
- Fournier, AMV**, Lancaster, JD, Yetter, AP, Hine, CS, Beckerman, T, Figge, J, Gioe, A, Greider, M, Jen, D, Johnson, C, Larreur, M, Shaw, A, Wolter, K, Wood, M, Wu, D, O'Neal, B, Hagy, HM. 2021 *Nest success and nest-site selection of wetland birds in a restored wetland system* **Avian Conservation and Ecology** 16:6. doi:10.5751/ACE-01782-160106
- Saunders, SP, Wu, JX, Adams, E, Bateman, B, Bayard, T, Beilke, S, Dayer, A, **Fournier, AMV**, Fox, K, Gow, EA, Heglund, P, Lerman, SB, Michel, NL, Paxton, E, CekercioAlu, AH, Smith, MA, Thogmartin, W, Woodrey, MS, van Riper, C. 2021 *Bridging the research-implementation gap in avian conservation with translational ecology*. **Ornithological Applications** (formerly The Condor) doi:10.1093/ornithapp/duab018
- Bradshaw, TM #, Blake-Bradshaw, AG, **Fournier, AMV**, Lancaster, JD, O'Connell, J, Jacques, CN, Eicholtz, MW, Hagy, HM. 2020 *Marsh bird occupancy of wetlands managed for waterfowl in the Midwestern USA* **PLoS ONE** 15(2): e0228980, doi:10.1371/journal.pone.0228980
- Fournier, A.M.V.**, Bond, A.L., Holford, A, Leighton, M. 2019 *Unpaid work and access to science professions* **PLoS ONE** 14:e0217032. doi:10.1371/journal.pone.0217032
- Drymon, JM, Feldheim, K, **Fournier, AMV**, Seubert, E, Jefferson, A, Kroetz, A, Powers S. 2019 *Tiger sharks eat songbirds: scavenging a windfall of nutrients from the sky* **Ecology** 100:e02728 doi:10.1002/ecy.2728
- Drymon, JM, Feldheim, K, **Fournier, AMV**, Seubert, E, Jefferson, A, Kroetz, A, Powers S. 2019 *Tiger sharks eat songbirds: Reply* **Ecology** 100:e02870 doi:10.1002/ecy.2870
- Fournier, AMV**, Eulinger, K, McDaniel, T, Calvert, G. 2019 *Juvenile King Rail (*Rallus elegans*) in stomach of American Bullfrog (*Lithobates catesbeianus*)* **Herpetological Review** 50:338
- Fournier, AMV**, White, ER, Heard, SB. 2019 *Site-selection bias can drive apparent population declines in long-term studies* **Conservation Biology** 33:1370-1379 doi:10.1111/cobi.13371
- Fournier, AMV**, Mengel, DC, Gbur, E, Raedeke, A, Krementz, D.G. 2019 *Evaluating tradeoffs in the response of Sora and waterfowl to the timing of early autumn wetland inundation* **Waterbirds** 42:168-178 doi:10.1675/063.042.0203
- Ward, S, **Fournier, AMV**, Bond, AL. 2019 *Assessing gaps in reporting non-target mortality in island rodent eradication operations* **Biological Invasions** 21:3101-3108 doi:10.1007/s10530-019-02032-7
- Fournier, AMV**, Shave, A, Fischer, J, Siegrist, J, Ray, J, Chesky, T, MacIntosh, M, Fraser, K. 2019 *Precise direct tracking and remote sensing reveal the use of forest islands as roost sites by Purple Martins during migration* **Journal of Field Ornithology** 90:258-265 doi:10.1111/jfo.12298
- Fournier, AMV**, Krementz, DG. 2018 *Confirmation of diving and swimming behavior in the Sora (*Porzana carolina*)* **Wilson Journal of Ornithology** 130:778-780 doi:10.1676/17-046.1
- Fournier, AMV**, Mengel, DC, Krementz, DG. 2018 *Sora (*Porzana carolina*) autumn migration habitat use*. **Royal Society Open Science**. 5: 171664. doi:10.1098/rsos.171664
- Fournier, AMV**, Mengel, DC, Gbur, EE, Krementz, DG. 2017 *The timing of autumn Sora (*Porzana carolina*) migration in Missouri* **Wilson Journal of Ornithology** 129:675-770 doi:10.1676/16-108.1
- Fournier, AMV**, Mengel, DC, Krementz, DG. 2017 *Virginia and Yellow Rail autumn migration ecology: synthesis using multiple data sets* **Animal Migration** 4:15-22 doi:10.1515/ami-2017-0003
- Fournier, AMV**, Drake, KL, Tozer, DC. 2017 *Using citizen science monitoring data in species distribution models to inform isotopic assignment of migratory connectivity in wetland birds* **Journal of Avian Biology** 48: 1556-1562 doi:10.1111/jav.01273

**Fournier, AMV**, Krementz, DG. 2017 *Nocturnal distance sampling all-terrain vehicle surveys for non-breeding rails* **The Wildlife Society Bulletin** 41:151-156 doi:10.1002/wsb.745

**Fournier, AMV**, Sullivan, A, Bump, J, Perkins, M, Shieldcastle, MC, King, S. 2017 *Combining citizen science species distribution models and stable isotopes reveals migratory connectivity in the secretive Virginia rail* **Journal of Applied Ecology** 54:618-627 doi:10.1111/1365-2664.12723

**Fournier, AMV**, Welsh, KJ, Polito, M, Emslie, S, Brasso, R. 2016 *Levels of mercury in feathers of Clapper Rails over 45 Years in coastal salt marshes of New Hanover county, North Carolina* **Bulletin of Environmental Contamination & Toxicology** 97:469-473 doi:10.1007/s00128-016-1870-z

**Fournier, AMV**, Shieldcastle, MC, Kashmer, T, Mylecraine, KA. 2015 *Comparison of arrival dates of spring rail migration in the southwest Lake Erie Marshes, Ohio, USA*. **Waterbirds** 38: 312-314 doi: 10.1675/063.038.0313

**Fournier, AMV**, Bond, AL. 2015 *Volunteer field staff are bad for wildlife ecology* **The Wildlife Society Bulletin** 39: 819-821 doi:10.1002/wsb.603

**Fournier, AMV**, Shieldcastle, MC, Fries, AC, and Bump, JK. 2013 *A morphometric model to predict the sex of virginia rails* **The Wildlife Society Bulletin** 27: 881-886 doi:10.1002/wsb.323

## Book Chapters

Wilson, RR, **Fournier, AMV**, Gleason, JS, Lyons, JE, Woodrey, MS (Editors). 2019 *Strategic Bird Monitoring Guidelines for the Northern Gulf of Mexico*. Mississippi Agricultural and Forestry Experiment Station Research Bulletin 1228, Mississippi State University, Mississippi State, MS. USA. 324 Pages. pdf

Wilson, RR, Woodrey, MS, **Fournier, AMV**, Gleason, JS, Lyons, JE. 2019 *Why Strategic Bird Monitoring Guidelines for the Gulf of Mexico?* Pages 1-14 in Wilson, RR, **Fournier, AMV**, Gleason, JS, Lyons, JE, Woodrey, MS (Editors). 2019. *Strategic Bird Monitoring Guidelines for the Northern Gulf of Mexico*. Mississippi Agricultural and Forestry Experiment Station Research Bulletin 1228, Mississippi State University, Mississippi State, MS. USA. 324 Pages. pdf

**Fournier, AMV**, Woodrey, MS, Wilson, RR, Sharuga, SM, Reeves, DB. 2019 *Challenges, opportunities, and stakeholder values*. Pages 15-24 in Wilson, RR, **Fournier, AMV**, Gleason, JS, Lyons, JE, Woodrey, MS (Editors). 2019. *Strategic Bird Monitoring Guidelines for the Northern Gulf of Mexico*. Mississippi Agricultural and Forestry Experiment Station Research Bulletin 1228, Mississippi State University, Mississippi State, MS. USA. 324 Pages. pdf

Woodrey, MS, **Fournier, AMV**, Cooper, RJ. 2019. *GoMAMN Strategic Bird Monitoring Guidelines: Marsh Birds* Pages 71-96 in Wilson, RR, **Fournier, AMV**, Gleason, JS, Lyons, JE, Woodrey, MS (Editors). 2019 *Strategic Bird Monitoring Guidelines for the Northern Gulf of Mexico*. Mississippi Agricultural and Forestry Experiment Station Research Bulletin 1228, Mississippi State University, Mississippi State, MS. USA. 324 Pages. pdf

Adams, EM, **Fournier, AMV**, Woodrey, MS. 2019. *Integration and collaboration across the Gulf of Mexico* Pages 297-306 in Wilson, RR, **Fournier, AMV**, Gleason, JS, Lyons, JE, Woodrey, MS (Editors). 2019 *Strategic Bird Monitoring Guidelines for the Northern Gulf of Mexico*. Mississippi Agricultural and Forestry Experiment Station Research Bulletin 1228, Mississippi State University, Mississippi State, MS. USA. 324 Pages. pdf

## Popular Press

Bahlai, CA, Bartlett, LJ, Burgio, KR, **Fournier, AMV**, Keiser, CN, Poisot, T, Stack Whitney, K. 2019 *Open Science Isn't Always Open To All Scientists* The American Scientist.

## Book Review

**Fournier, AMV** 2019 *A Season on the Wind: Inside the World of Spring Migration* **Journal of Field Ornithology** 90:391-392 10.1111/jof.12317

## Software

**Fournier, AMV**, Boone, ME, Stevens, FR and Bruna, EM. 2020 refsplitr: Author name disambiguation, author georeferencing, and mapping of coauthorship networks with Web of Science data. version 1.0.0. <https://github.com/ropensci/refsplitr>

## Grants

### Current

2019-2024 NOAA RESTORE Science, **PI**, Fire Effects in Gulf of Mexico Tidal Marshes: Historical Perspectives, Management, and Monitoring of Mottled Ducks and Black Rails and Other High Marsh Birds 3.9 million

2019-2023 The Nature Conservancy, **PI**, Monitoring of Key Attributes and Indicators of Waterbirds at The Nature Conservancy's Emiquon Preserve 167k

2018-2021 US Dept of Agriculture, **PI**, Condition of Natural Resources Conservation Service Wetland Easements in Illinois 120k

2020-2021 USFWS/Illinois DNR, **PI**, Illinois Waterfowl Surveys and Investigations (FY22) 560k

2021-2023 Arkansas Game and Fish Commission, **PI**, King Rail Ecology 171k

2022-2024 Colorado Parks and Wildlife, **PI**, Black Rail Ecology in Colorado 160k

2020-2023 Florida Fish and Wildlife Conservation Commission, **PI**, True Metabolizable Energy of Southern Aquatic Waterfowl Foods 70k

2019-2022 USFWS, **PI**, True Metabolizable Energy of Targeted and Unfavorable Seed Species in Waterfowl Management 59k

2020-2022 USFWS, **PI**, Energy value of common invasive plant species in managed wetlands on National Wildlife Refuges in the Southeast to waterfowl and potential dispersal of propagules through ingestion and gut passage 47k

2021-2022 Sea duck Joint Venture/USFWS, **Co-PI**, Monitoring of Non-Breeding Sea Ducks on the Great Lakes 44k

### Completed

2021-2021 - The Nature Conservancy **PI** Marshbird community surveys at Midewin National Tallgrass Prairie 10k

2020-2021 USFWS/Illinois DNR, **PI**, Illinois Waterfowl Surveys and Investigations (FY21) 540k

2019-2020 USFWS/Illinois DNR, **Co-PI**, Illinois Waterfowl Surveys and Investigations (FY20) 540k

2020-2021 USFWS/Illinois DNR, **Co-PI**, Wetland Bird Conservation Assessment 300k

2020-2021 USFWS/Illinois DNR, **Co-PI**, Ecology of non-breeding waterfowl in the Wabash River region 100k

## Datasets

**Fournier AMV**, Mengel DC, Krementz DG. 2018 Data from: Sora (*Porzana carolina*) autumn migration habitat use. Dryad Digital Repository. doi: 10.5061/dryad.5n7t4

**Fournier AMV**, Drake KL, Tozer DC. 2017 Data from: Using citizen science monitoring data in species distribution models to inform isotopic assignment of migratory connectivity in wetland birds. Dryad Digital Repository. doi: 10.5061/dryad.nb11 2022

Cremer, CA #, Avara, M, **Fournier, AMV**, Ward, MP. The Use of Motus Tracking System to Investigate the Migratory Behavior of Rails at a Local and Regional Scales. Midwest F&W

Gee, H, Shaw, M, Wallace, L, Bradsdshaw, TM, **Fournier, AMV**, Yetter, AP, Gilbert, AD, Osborn, JM, Lancaster, JD, Fournier, AMV. Blue-Winged Teal (*Spatula discors*) True Metabolizable Energy of Southern Wetland Foods. Midwest F&W

Thurman, HR, Enwright, NM, Evans, KO, Cheyney, WC, **Fournier, AMV**, Woodrey, MS. Mapping High Marsh Systems Across the Northern Gulf of Mexico. AAG Meeting

Cremer, CA #, Avara, M, **Fournier, AMV**, Ward M. The Use of Motus Tracking System to Investigate the Migratory Behavior of Rails at a Local and Regional Scales. Illinois Chapter of The Wildlife Society Meeting

Pietrunti, NF #, **Fournier, AMV**, Mateus-Pinilla, N, Nguyen, TH. Using Genotypic Methods to Assess Antimicrobial Resistance in the Fecal Microbiome of Resident Canada Geese (*Branta canadensis*). Illinois Chapter of The Wildlife Society Meeting5

**Fournier AMV**, Sullivan AR, Bump JK, Perkins M, Shieldcastle MC, King SL. 2016 Data from: Combining citizen science species distribution models and stable isotopes reveals migratory connectivity in the secretive Virginia rail. Dryad Digital Repository. doi: 10.5061/dryad.r4847

## Honors

2022 **Early Career Investigator Award** Prairie Research Institute, U Illinois Urbana Champaign

2021 **Certified Wildlife Biologist** The Wildlife Society

2021 **USFWS Regional Director's Honor Award for Conservation Partner**

2020 **BioOne Ambassador Award**

2019 **The Wildlife Society Leadership Institute Class of 2019**

2012-16 **Distinguished Doctoral Fellowship** - University of Arkansas

2018 **Elective Member** - American Ornithological Society

2016 **Distinguished Student Service Award** - The Wildlife Society U of Arkansas Student Chapter

2015 **Associate Wildlife Biologist** The Wildlife Society

2010 **Member of the Year** - The Wildlife Society Michigan Technological University Student Chapter

2011 **Outstanding Senior in Wildlife Ecology and Management** - Michigan Technological University

2009 **Woman of Promise** - School of Forest Resources and Envi. Science - Michigan Technological U

## Invited Presentations

2022

**Seminar** University of Idaho

**Invited Talk** The Biggest Week in American Birding Festival

2021

**Seminar** NRES UIUC

**Invited Panelist** Society for Literature, Science and the Arts

2020

**Seminar** Southern Illinois University - Edwardsville

**Seminar** Northern Illinois University

**Invited Talk** Illinois Master Naturalist Conference

**Symposium Talk** The Wildlife Society Leadership Symposium

**Seminar** Southern Illinois University - Carbondale

**Seminar** Bios2 Fellows Program

**Invited Talk** Chicago Audubon Society  
**Seminar** Dept of Interior Decision Science Webinar Series Recording Link  
**Seminar** Bradley University

2019

**Seminar** East Carolina University  
**Seminar** Clemson University  
**Invited Talk** Whiting Forest Birding Festival

2018

**Seminar** University of Florida  
**Keynote** Oklahoma Ornithological Society Spring Meeting  
**Seminar** Wayne State University  
**Symposium Talk** American Ornithological Society  
**Seminar** Louisiana State University  
**Seminar** Mississippi State University  
**Seminar** University of Southern Mississippi  
**Seminar** University of Delaware  
**Seminar** Gettysburg College  
**Seminar** Tulane University

2017

**Seminar** University of Montreal  
**Seminar** Grand Bay National Estuarine Research Reserve  
**Seminar** Royal Society for the Protection of Birds, Centre for Conservation Science, UK Headquarters  
**Symposium Talk** International Association of Great Lake Researchers  
**Seminar** Bird Studies Canada  
**Keynote** The Biggest Week in American Birding Festival  
**Seminar** Missouri State University

2016

**Keynote** Ohio Ornithological Society Annual Conference  
**Seminar** University of Toledo

2014

**Seminar** Arkansas Tech University

## Presentations

I am presenter when first author, and when otherwise indicated.

# graduate student mentee

Schmidt, SM#, Benson, TJ, Fournier, AMV, Osborn, J. The Effects of Water Drawdowns on Marsh Bird Nest Survival. Midwest F&W Conference.

Kross, CS, Moon, J, Johnson, E, Conway, W, Kappes, P, Cox, J, Wilson, J, Woodrey, MS, Fournier, AMV. Comparison of Vegetation Metrics and Collection Effort and Call Types in Eastern Black Rail Response to Improve Species Detection. Midwest F&W Conference

Larson, L#, Anteau, M, Hagy, H, Lancaster, J, Yetter, A, Jacques, C, Fournier, AMV. Evaluating Dynamics of Food Availability for Lesser Scaup at Pools 13 and 19 of the Mississippi River. Midwest F&W

Bradshaw, TM, Williams, MR, Hagy, HM, Lancaster, JD,, Osborn, JM, Yetter, AP,, Fournier, AMV. True Metabolizable Energy of Targeted and Unfavorable Seed Species in Waterfowl Management. Midwest F&A

Beach, CR#, Cole, RA, Lancaster, JD, Yetter, AP, Jacques, CN, Hagy, HM, Fournier, AMV. Evaluation of Selected Physiological Responses to Sub-lethal *Cyathocotyle bushiensis* and *Sphaeridiotrema* spp. Experimental Infections in Captive Lesser Scaup (*Aythya affinis*). Midwest F&W

Bradshaw, TM, Matthew R. Williams, MR, Hagy, HM, Lancaster, JD, Gilbert, AD, Kross, CS, Osborn, JM, Yetter, AP, Fournier, AMV.\*\* True Metabolizable Energy of Targeted and Unfavorable Seed Species in Waterfowl Management within the Midwest. Illinois Chapter of The Wildlife Society Conference.

Beach, CR#, Cole, RA, Lancaster, JD, Yetter, AP, Jacques, DN, Hagy, HM, **Fournier, AMV**. Evaluation of Selected Physiological Responses to Sub-lethal *Cyathocotyle bushiensis* and *Sphaeridiotrema* spp. Experimental Infections in Captive Lesser Scaup (*Aythya affinis*). Illinois Chapter of The Wildlife Society Conference.

Stantial, ML, **Fournier, AMV**, Godar, AJ, Lawson, AJ, Kappes, PJ, Kross, CS, Woodrey, MS, Lyons, JE. Informing the use of prescribed fire in an adaptive management framework for Gulf of Mexico high marshes using an expert-based Bayesian Decision Network. The Gulf of Mexico Conference.

Kross, CS, Rohli, RV, Moon, JA, **Fournier, AMV**, Woodrey, MS, Nyman, JA. Weather is not a primary driver behind changes in prescribed fire management in coastal wetlands across the Gulf of Mexico. The Gulf of Mexico Conference.

**Fournier, AMV**, Bauer, A, Brasher, M, Butler, C, Cheney, WC, Cooper, RJ, Conway, W, Cox, J, Enwright, NM, Evans, KO, Hondrick, K, Johnson, E, Kappes, P, Kross, C, Lancaster, J, Levy, H, Lueck, J, Lyons, JE, Monopoli, L, Moon, J, Nyman, JA, Rohli, R, Schwarzer, A, Soehren, E, Stantial, M, Thurman, HR, Vermillion, B, Wilson, J, Woodrey, MS. NOAA Firebird: Fire Effects in Gulf of Mexico Marshes on Mottled Ducks, Black and Yellow Rails. The Gulf of Mexico Conference.

Enwright, NM, Evans, KO, Cheney, WC, Thurman, HR, **Fournier, AMV**, Woodrey, MS. Mapping High Marsh Systems across the Northern Gulf of Mexico. The Gulf of Mexico Conference

**Fournier, AMV**, Bauer, A, Brasher, M, Butler, C, Cheney, WC, Cooper, RJ, Conway, W, Cox, J, Enwright, NM, Evans, KO, Hondrick, K, Johnson, E, Kappes, P, Kross, C, Lancaster, J, Levy, H, Lueck, J, Lyons, JE, Monopoli, L, Moon, J, Nyman, JA, Rohli, R, Schwarzer, A, Soehren, E, Stantial, M, Thurman, HR, Vermillion, B, Wilson, J, Woodrey, MS. NOAA Firebird: Fire Effects in Gulf of Mexico Marshes on Mottled Ducks, Black and Yellow Rails. Joint Aquatic Sciences Meeting.

Enwright, NM, Evans, KO, Cheney, WC, Thurman, HR, **Fournier, AMV**, Woodrey, MS. Mapping High Marsh Systems across the Northern Gulf of Mexico. Joint Aquatic Sciences Meeting.

**Fournier, AMV**, Bradshaw, T, Hagy, HM, Shirkey, B. 2021. Evaluating assumptions of the North American Marsh Bird Monitoring Protocol. Midwest Fish and Wildlife Conference.

**Fournier, AMV**, Williams, MR, Hagy, HM, Lancaster, JD, Osborn, JM, Yetter, AP. 2021. True Metabolizable Energy of Southern Aquatic Waterfowl Foods. Florida Fish and Wildlife Commission Research Symposium.

**Fournier, AMV** Motus: automated radio tracking of bird movements. The Emiquon Symposium.

**Fournier, AMV**, Holford, AJ, Bond, AL, Leighton, MA. 2021. Unpaid Work In STEM, Barriers and Examples of Improvement. Illinois Chapter of The Wildlife Society.

**Fournier, AMV**, Holford, AJ, Bond, AL, Leighton, MA. 2021. Unpaid Work In STEM, Barriers and Examples of Improvement. Northeast Natural History Conference.

Schmidt, SM #, Benson, TJ, **Fournier, AMV**, Osborn, JM 2021. Water Drawdowns and Survival of Marsh Bird Nests at Emiquon Preserve, IL. Wetland Science Conference.

Schmidt, SM #, Benson, TJ, **Fournier, AMV**, Osborn, JM 2021. Least Bittern Juvenile Movements and Habitat Use at Emiquon Preserve. Midwest Fish and Wildlife Conference

Schmidt, SM #, Benson, TJ, **Fournier, AMV**, Osborn, JM 2021. Water Drawdowns and Survival of Marsh Bird Nests at Emiquon Preserve. Midwest Fish and Wildlife Conference.

Schmidt, SM #, Benson, TJ, **Fournier, AMV**, Osborn, JM 2021. Predation Risk at Marsh Bird Nests as a Result of Wetland Management at Emiquon Preserve. DuPage Birding Club

- Larson, LD #, Anteau, MJ, Hagy, HM, Lancaster, JD, Yetter, AP, Jacques, CN, **Fournier, AMV**. 2021. True metabolizable energy for lesser scaup. Illinois Chapter of The Wildlife Society.
- Schmidt, SM #, Benson, TJ, **Fournier, AMV**, Osborn, JM. 2021. The effects of water drawdowns on marsh bird nest survival at Emiquon Preserve. Illinois Chapter of the Wildlife Society.
- Kross, CS, Moon, J, Johnson, E, Conway, W, Kappes, P, Cox, J, Wilson, J, Woodrey, M, **Fournier, AMV**. 2021. Comparison of call types in Eastern Black Rail response in the Gulf of Mexico. Waterbirds.
- Fournier, AMV**, Adams, EM, Barron, T, Chimahusky, M, Cox, A, Driscoll, MJL, Dobbs, R, Gleason, JS, Grace, J, Green, C, Havens, H, Kalasz, K, Koczur, L, Lancaster, JD, Lyons, JE, Maness, T, Ottinger, MA, Schulz, J, Soehren, E, Stantial, M, Vermillion, WG, Williams, K, Wilson, RR, Woodrey, MS, Zenzal, TJ. 2021. The Gulf of Mexico Avian Monitoring Network (GoMAMN): a strategic plan for monitoring birds in the Gulf of Mexico and translating stakeholder values into priorities. Waterbirds
- Kross, CS, Moon, J, Rohli, RV, *Fournier, AMV*, Woodrey, MS, Nyman, JA. 2021. Have preferred weather conditions for prescribed fire changed over time? The Wildlife Society - Black Rail Symposium
- Stantial, ML, Lawson, AJ, *Fournier, AMV*, Kappes, P, Kross, C, Runge, MC, Woodrey, M, Lyons, JE. Application of qualitative value of information for identifying critical uncertainties regarding the use of prescribed fire in the Gulf of Mexico. The Wildlife Society - Black Rail Symposium.
- Stantial, ML, Lawson, AJ, *Fournier, AMV*, Kappes, P, Kross, C, Runge, MC, Woodrey, M, Lyons, JE. Application of qualitative value of information for identifying critical uncertainties regarding the use of prescribed fire in the Gulf of Mexico. AGU 2021
- Evans, KO, Enwright, N, Cheney, WC, Thurman, HR, *Fournier, AMV*, Woodrey, M. Mapping U.S. Gulf of Mexico Coastal Estuarine High Marsh Systems to Support Adaptive Management of Priority Bird Species. AGU 2021
- Fournier, AMV**, Williams, MR, Hagy, HM, Lancaster, JD, Osborn, JM, Yetter, AP. 2021 True Metabolizable Energy of Southern Aquatic Waterfowl Foods. Florida Research Symposium
- Beach, CR #, Cole, RA, Lancaster, JD, Yetter, AP, **Fournier, AMV**, Hagy, HM, Jacques, CN. 2020 Evaluating the Physiological Response of Sub-Lethal Infections of Trematodes in Captive Lesser Scaup. The Wildlife Society.
- Fournier, AMV**, Lancaster, JD, Yetter, A, Shaw, A, Greider, M, Wu, D, Beckerman, T, Gio, A, Wolter, K, Figge, J, Laureur, M, Wood, M, Johnson, C, Jen, D, O'Neal, B, Hagy, H. 2020 Wetland bird nest success, and nest site selection in a restored wetland system. Midwest Fish and Wildlife Conference
- Yetter, AP, Hine, CS, Lancaster, JD, Gilbert, AD, Klimas, ST, Beach, CR, Osborn, JM, **Fournier, AMV**, Hagy, HM. 2020 Ecology of spring-migrating dabbling ducks in the Illinois River Valley. Midwest Fish and Wildlife Conference.
- Yetter, AP, Hine, CS, Gilbert, AD, Osborn, JM, **Fournier, AMV**, Beach, CR, Klimas, ST. 2020 Ducks, Geese, and Coots - A quarter century summary of the Illinois River Valley. Midwest Fish and Wildlife Conference.
- Gilbert, AD, **Fournier, AMV**, Yetter, AP, Hine, CS, Osborn, JM, Lancaster, JD, Klimas, ST, Beach, CR. 2020 Postbreeding ecology of wood ducks in the Illinois River Valley. Midwest Fish and Wildlife Conference
- Klimas, ST, Osborn, JM, Osborne, DC, Lancaster, JD, Jacques, CN, Yetter, AP, **Fournier, AMV**, Hagy, HM. 2020 Body condition of spring-migrating green-winged teal. Annual Midwest Fish and Wildlife Conference
- Fournier, AMV** Holford, AJ, Bond, AL, Leighton, MA. 2019 Unpaid work and access to science professions *Assoc of Field Ornithologists/Wilson Ornithological Soc*
- Jodice, PGR, Adams, EM, Brush, JM, Cooper, RJ, DeMaso, SJ, Driscoll, MJL, Fredrick, PC, **Fournier, AMV**, Gleason, JS, Lyons, JE, Wilson, RR, Woodrey, MS. 2019 The Gulf of Mexico Avian Monitoring Network: Long-term and Large-scale Monitoring to Address Conservation Needs *Joint Meeting of the American Fisheries Society and The Wildlife Society*



- Fournier, AMV**, Lyons, JE, Wilson, RR, Gleason, JS, Adams, EM, Brush, JM, Cooper, RJ, DeMaso, SJ, Driscoll, MJL, Frederick, PC, Jodice, PGR, Reeves, DB, Seymour, MA, Sharuga, SM, Tirpak, JM, Vermillion, WG, Zenzal, TJ, Woodrey, MS. 2019 A strategic plan for monitoring birds in the gulf of mexico: translating stakeholder values into priorities. *Joint Meeting of the American Fisheries Society and The Wildlife Society*
- Klimas, ST, Osborn, JM, Jacques, CN, Lancaster, JD, Yetter, AP, **Fournier, AMV**, Hagy, HM. 2019 Diet selection by green-winged teal during spring migration in Illinois. *North American Duck Symposium 8*
- Fournier, AMV**, Bradshaw, TM, Blake-Bradshaw, AG, Jacques CN, Lancaster, JD, Hagy, HM. 2019 Does wetland management for waterfowl increase marsh bird occupancy? *North American Duck Symposium 8*
- Yetter AP, Hine, CS, Lancaster, JD, Gilbert, AD, Klimas, ST, Beach, CR, Osborn, JM, **Fournier, AMV**, Hagy, HM. 2019 Ecology of spring-migrating dabbling ducks in the Illinois River Valley *North American Duck Symposium 8*
- Drymon, JM, Feldheim, K, **Fournier, AMV**, Seubert, E, Kroetz, A, Powers S. 2019 Tiger sharks eat passerines: exploring the prevalence of a unique cross-system subsidy. *American Elasmobranch Society*
- Drymon, JM, Feldheim, K, **Fournier, AMV**, Seubert, E, Kroetz, A, Powers S. 2019 Tiger sharks eat passerines: exploring the prevalence of a unique cross-system subsidy. *American Ornithological Society*
- Fournier, AMV**, Lyons, JE, Wilson, RR, Gleason, JS, Adams, EM, Brush, JM, Cooper, RJ, DeMaso, SJ, Driscoll, MJL, Frederick, PC, Jodice, PGR, Reeves, DB, Seymour, MA, Sharuga, SM, Tirpak, JM, Vermillion, WG, Zenzal, TJ, Woodrey, MS. 2019 A strategic plan for monitoring birds in the gulf of mexico: translating stakeholder values into priorities. *American Ornithological Society*
- Adams, EM, **Fournier, AMV**, Lyons, JE, Wilson, RR, Gleason, JS, Brush, JM, Cooper, RJ, DeMaso, SJ, Driscoll, MJL, Frederick, PC, Jodice, PGR, Reeves, DB, Seymour, MA, Sharuga, SM, Tirpak, JM, Vermillion, WG, Zenzal, TJ, Woodrey, MS. 2019 Using Structured Decision Making to Connect Bird Monitoring to Restoration Decision-making. *American Ornithological Society*
- Drymon, JM, Feldheim, K, **Fournier, AMV**, Seubert, E, Kroetz, A, Powers S. 2019 Tiger sharks eat terrestrial songbirds: exploring the prevalence of a unique cross-system pulsed subsidy *Southeastern Division American Fisheries Society*
- Jodice, PGR, Woodrey, MS, **Fournier, AMV**. 2018 Movement Ecology of Seabirds: Multi-scale and Multi-taxa Approaches to Addressing Conservation Needs in the Gulf of Mexico *Southeastern Association of Fish and Wildlife Agencies*
- Fournier, AMV**, Lyons, JE, Adams, EA, Brush, J, Cooper, RJ, DeMaso, S, Driscoll, M, Frederick, P, Gleason, J, Wilson, RR, Tirpak, J, Woodrey, MS. 2018 Guiding coordinated bird monitoring decisions through structured decision making *National Conference on Ecological Restoration*
- Fournier, AMV**, Lyons, J, Cooper, RJ, Woodrey, MS. 2018 Prioritization of conservation actions through structured decision making *Ecological Society of America*
- Fournier, AMV**, Woodrey, MS, Wilson, RR, Gleason, J, Lyons, JE, Cooper, RJ, Tirpak, J. 2018 Coordinated Bird Monitoring With Decision Science *SESYNC Boundary Spanning Symposium*
- [presenter] Woodrey, MS, **Fournier, AMV**, Wilson, RR, Gleason, J, Lyons, JE, Cooper, RJ, Tirpak, J. 2018 Application of structured decision making in the development of a Gulf of Mexico-wide avian monitoring program *Assoc of Field Ornithologists/Wilson Ornithological Soc*
- [presenter] Ward, S, **Fournier, AMV**, Bond, AL. 2018 Rodent eradications on islands and their effect on rails (Rallidae) as non-target species *Assoc of Field Ornith/Wilson Ornith Soc*
- Fournier, AMV**, Lyons, JE, Adams, EM, Brush, J, Cooper, RJ, DeMaso, S, Driscoll, M, Frederick, P, Gleason, J, Wilson, R, Woodrey, MS. 2018 Guiding Coordinated Bird Monitoring Decisions Through Structured Decision Making. *American Ornithological Society Meeting*
- Woodrey, MS, Cooper, RJ, Evans, KO, Iglay, R, Rush, SA, **Fournier, AMV**, Strange, T. 2018 Application of monitoring Best Management Practices to marsh restoration priorities to reduce uncertainty of marsh

birds response *American Ornithological Society Meeting*

Adams, EM, **Fournier, AMV**, Lyons, JE, Woodrey, MS. 2018 Using a structured decision making framework to support large-scale inference. *American Ornithological Society Meeting*

Ray, JD, Fraser, KC, **Fournier, AMV**, Shave, A. 2018 Selection of island habitat by a Texas population of purple martin during the non-breeding season. *54rd Texas Chapter Wildlife Society*

**Fournier, AMV**, Woodrey, MS, Lyons, JE, Cooper, RJ, Evans, KE. 2017 Application of Structured Decision Making to Marshbird Monitoring in the Gulf of Mexico *American Ornithological Society/Society of Canadian Ornithologists Meeting, East Lansing, MI*

Heard, S, **Fournier, AMV**, Branch, T, Skelly, D. 2017 Why most studied populations should decline. *Canadian Society for Ecology and Evolution*

**Fournier, AMV**, Mengel, DC, Krementz, DG. 2017 Habitat Use and Migratory Timing of Virginia and Yellow Rails. *Wilson Ornithological Society Meeting, Fort Meyers, FL* pdf link

**Fournier, AMV**, Drake, KL, Tozer, DC, Krementz, DG. 2016 Migratory Connectivity of Sora, Virginia Rail and Yellow Rail. *North American Ornithological Conference, Washington D.C.* pdf link recording

**Fournier, AMV**. 2016 Building Collaboration and Community in Science Through Twitter. North American Ornithological Conference, Twitter for Scientists Workshop

**Fournier, AMV**, Mengel, DC, Krementz, DG. 2016 Habitat Use by Autumn Migrating Sora in the Mississippi Flyway *Society of Wetland Scientists* pdf link

**Fournier, AMV**, Drake, KL. 2015 Active Capture of Rails During the Breeding Season and Fall Migration. *Inland Bird Banders Association Meeting* pdf link

**Fournier, AMV**, Sullivan, AR, Bump, JK, Perkins M, Shieldcastle, MC, King, SL. 2015 Combining Citizen Science Derived Species Distribution Models and Stable Isotope Analysis Reveals Migratory Connectivity in a Secretive Species, the Virginia Rail (*Rallus limicola*). *American Ornithologists Union/Cooper Ornithological Society Meeting* pdf link

**Fournier, AMV**, Mengel, DC, Krementz DG. 2015 Timing of Autumn Migration in the Mississippi Flyway by Rails. *Association of Field Ornithologists Meeting* pdf link

**Fournier, AMV**, Krementz, DG. 2014 The Response of Fall Migrating Sora to Wetland Management. *Arkansas State Chapter of the Wildlife Society Spring Meeting*

**Fournier, A.M.V.**, Krementz, D.G., Mengel, D.C., Raedeke, A.H. 2013 Phenology, Habitat Use and Co-Occurrence of Fall Migrating Yellow Rails in Missouri. *Yellow Rail Virtual Symposium* USFWS

## Posters

# graduate mentees ## undergraduate mentees

Cremer, CA #, Avara, M, **Fournier, AMV**, Ward, MP. 2022 The Use of Motus Tracking System to Investigate the Migratory Behavior of Rails at a Local and Regional Scales. Midwest F&W

Gee, H, Shaw, M, Wallace, L, Bradsdshaw, TM, **Fournier, AMV**, Yetter, AP, Gilbert, AD, Osborn, JM, Lancaster, JD, Fournier, AMV. 2022 Blue-Winged Teal (*Spatula discors*) True Metabolizable Energy of Southern Wetland Foods. Midwest F&W

Thurman, HR, Enwright, NM, Evans, KO, Cheyney, WC, **Fournier, AMV**, Woodrey, MS. 2022 Mapping High Marsh Systems Across the Northern Gulf of Mexico. AAG Meeting

Cremer, CA #, Avara, M, **Fournier, AMV**, Ward M. 2022 The Use of Motus Tracking System to Investigate the Migratory Behavior of Rails at a Local and Regional Scales. Illinois Chapter of The Wildlife Society Meeting

Pietrunti, NF #, **Fournier, AMV**, Mateus-Pinilla, N, Nguyen, TH. 2022 Using Genotypic Methods to Assess Antimicrobial Resistance in the Fecal Microbiome of Resident Canada Geese (*Branta canadensis*). Illinois Chapter of The Wildlife Society Meeting

Cheney, W, Enwright, N, Evans, K, Thurman, H, **Fournier, AMV**, Woodrey, MS. 2021. Mapping High marsh Across the Northern Gulf of Mexico. *CERF*

**Fournier, AMV**, Butler, C, Conway, W, Cooper, R, Cox, J, Enwright, N, Evans, K, Johnson, E, Lyons, J, Nyman, JA, Rohli, R, Woodrey, M. 2020 The effects of prescribed fire in Gulf of Mexico Marshes: on Mottled Ducks and Black and Yellow Rails. *The Wildlife Society*

**Fournier, AMV**, Shieldcastle MC. 2020 The timing and abundance of hawk migration along the southern shore of Lake Erie over 15 years. *The Wildlife Society*

Shaw, AA, ##, Lancaster, JD, Yetter, AP, Hine, CN, **Fournier, AMV** 2019 Waterbird nesting ecology following hydrological manipulation of a historic Illinois River floodplain. *NGRREC Symposium*

Holiman, H. ##, Kitaif, C. ##, **Fournier, AMV**, Iglay, RB, Woodrey, MS. 2018 Can automated recordingn units be used to count individual marsh birds? *Bays and Bayous Conference, Alabama.*

Kitaif, C. ##, Holiman, H. ##, **Fournier, AMV**, Iglay, RB, Woodrey, MS. 2018 Migratory timing of rails in Jackson County, MS *Bays and Bayous Conference, Alabama.*

**Fournier, AMV**, Shieldcastle, MC, Kashmer, T, Mylecraine, KA. 2017 Comparison of Arrival Dates of Rail Migration in the Southwest Lake Erie Marshes, Ohio, USA *International Association of Great Lakes Researchers Conference - MI pdf*

**Fournier, AMV**, Krementz, DG, Mengel, DC, Raedeke, AH. 2014 Sora Migration and Wetland Management *The Wildlife Society National Conference - PA pdf*

**Fournier, AMV**, Krementz, DG, Mengel, DC, Raedeke, AH. 2013 Ecology of Fall Migrating Sora in Missouri. *The Wildlife Society National Conference - WI pdf*

**Fournier, AMV**, Sheildcastle, MC, Fries, AC, Bump, JK. 2011 Developing a morphometric model to predict the sex of Virginia Rails. *The Wildlife Society National Conference - HI pdf*

**Fournier, AMV**, Roth, AM, Flaspohler, DJ, 2011 Assessing mechanisms for variation in the eyes of Golden-winged Warblers *Ecosystem Science Center Poster Session - MI pdf*

**Fournier, AMV**, Flaspohler, DJ, 2010 Habitat Classification and Biological Inventory of Pioneer Scout Reservation *Undergraduate Research Expo - MI*

## Student Committees

2021-Present (Co-Adviser) Cheyenne Beach, PhD student, Northern Illinois University  
2021-Present (Co-Adviser) Chad Cremer, MS Student, University of Illinois Urbana Champaign  
2021-Present (Co-Adviser) Lauren Monopoli, PhD Student, University of Illinois Urbana Champaign  
2022-Present (Co-Adviser) Nora Hargett, MS Student, University of Illinois Urbana Champaign  
2022-Present (Co-Adviser) Nicole Pietrunti, MS Student, University of Illinois Urbana Champaign  
2022-Present (Co-Adviser) Jessica Schmit, MS Student, University of Arkansas Fayetteville  
2022-Present Haley Holiman, MS Student, Tennessee Tech University  
2022-Present Samantha Garcia, MS Student, University of Illinois Urbana Champaign  
2021-Present Anastasia Rahlin, PhD Student, University of Illinois Urbana Champaign  
2020-Present Susannah Halligan, MS Student, SUNY ESF  
2019-Present Dustin Brewer, PhD Student, Central Michigan University  
2019-Present Gabriel Habgrove, MS student, University of Arkansas Monticello  
2020-2022 (Co-Adviser) Stephanie Schmidt, MS Student, University of Illinois Urbana Champaign  
2020-2021 (Co-Adviser) Lauren Larson, MS Student, Western Illinois University

2020-2021 (Co-Adviser) Cheyenne Beach, MS Student, Western Illinois University  
2017-2019 Erin Lehnert, MS Student, University of Central Oklahoma

## Service

2020-Present **Illinois Important Bird Areas Technical Committee**  
2019-Present **Waterfowl Committee** Upper Miss/Great Lakes Joint Venture  
2019-Present **Waterbirds Committee** Upper Miss/Great Lakes Joint Venture  
2018-Present Co-Chair **Student/Early Professional Committee** Wilson Ornithological Society  
2017-Present **Gulf of Mexico Avian Monitoring Network (GoMAMN) Coordination Committee**  
2013-Present **Peer Reviewer** 13 journals  
2017-2020 **Associate Editor** The Ibis  
2018-2020 Co-Chair **Early Professional Development Committee** American Ornithological Society  
2019-2020 **North American Ornithological Conference 2020 Diversity and Inclusion Comm**  
2019 **Presentation Judge** Assoc. of Field Ornith. & Wilson Ornith. Soc. Meeting  
2019 **Mentor/Mentee Panel Member** North American Duck Symposium  
2018 **Presentation Judge** American Ornithological Society Meeting  
2018 **Local Organizing Committee** Assoc. of Field Ornith. & Wilson Ornith. Soc. Meeting  
2018 **Presentation Judge** Assoc. of Field Ornith. & Wilson Ornith. Soc. Meeting  
2017 **Presentation Judge** Wilson Ornithological Society Meeting  
2016 **Volunteer & Session Moderator** North American Ornithological Conference  
2016-17 Vice Chair **Open Science Section** Ecological Society of America  
2015-17 Treasurer/Secretary **Wetlands Working Group** The Wildlife Society  
2014-16 Treasurer **Biology Graduate Student Association** University of Arkansas  
2015 **Presentation Judge** Assoc. of Field Ornith., Wilson Ornith. Soc., Soc. of Canadian Ornith. Meeting  
2015 **Organized/Attended *Software Carpentry Workshop*** University of Arkansas  
2014-15 Secretary **Student Chapter - University of Arkansas** The Wildlife Society  
2014-15 Treasurer **Student Working Group** The Wildlife Society  
2013-14 Vice President **Biology Graduate Student Association** University of Arkansas  
2013-14 Treasurer **Student Chapter - University of Arkansas** The Wildlife Society  
2011 **Panel Member** Wind Power Meeting - Upper Peninsula Environmental Coalition  
2010 **Career Panel Member** Ohio Young Birder's Club Conference

## Professional Development

2018-9 **Decision Analysis Certification Program** Apprentice Level  
2019 **Decision Analysis: Tools** NCTC  
2019 **Decision Analysis: Elicitation and Facilitation** NCTC  
2018 **Grant Writing Workshop** Starkville, MS  
2018 **ROpenSci Unconference** Seattle, WA  
2018 **Introduction to Structured Decision Making** NCTC  
2017 **Adaptive Management: Structured Decision Making for Recurrent Decisions** NCTC  
2017 **Bayesian Modeling for Ecological & Social Scientists** SESYNC, University of Maryland  
2016 **Spatial Capture Recapture Workshop** University of Georgia  
2016 **Game Theoretical Modeling of Evolution Tutorial** NIMBios, University of Tennessee  
2015 **Editing in Ornithology Workshop** American Ornithologist Union Meeting  
2014 **Data Management Workshop** The Wildlife Society National Conference Pittsburgh, PA  
2014 **Applied Hierarchical Modeling Workshop** Patuxent Wildlife Research Center/Royle & Kery  
2013 **'Adehabitat' R Package Workshop** The Wildlife Society National Con/James Sheppard  
2013 **Occupancy Modeling Short Course** Darryl MacKenzie

# Teaching

## As Instructor

### *Social Media for Scientists*

Workshop about the use of social media platforms as a scientist.

Association of Field Ornithologists/Wilson Ornithological Society Conference - October 2019  
North American Ornithological Conference - August 2016

### *Advanced R Programming and Graphing Workshop*

Day long workshop on programming, graphing, data management in R. [Link to Materials](#)

Illinois Natural History Survey - May 2020  
Midwest Fish and Wildlife Conference - January 2020  
American Ornithological Society Conference - June 2019  
Gulf Estuarine Research Society Conference - November 2018  
American Ornithological Society Conference - April 2018  
American Ornithological Society/Society of Canadian Ornithologists - August 2017  
North American Ornithological Conference - August 2016  
American Ornithologists Union Conference - July 2015

### *Data and Software Carpentry Workshop*

Two-day workshops on reproducible research in R, Unix Shell, and Git.

Grand Bay National Estuarine Research Reserve, February 2019  
Grand Valley State University, MI, December 2017  
USDA, New Orleans, LA June 2016  
Federal Reserve Board, Washington D.C. June 2016  
University of Connecticut, March 2016  
Iowa State University, November 2015

## As Tutor

### **Science Writing Tutor**

Quality Writing Center - University of Arkansas - January 2014 - March 2017 Tutored undergraduate and graduate students on scientific writing 8 hours a week. Edited thesis, dissertations, lab reports and other writing. Worked extensively with English as a Second Language students.

## As Mentor

**Undergraduate Mentor** Summer 2018-Present Mentored two undergraduates through independent research projects. I was awarded competitive funding to cover their salaries and housing. Throughout the summer I taught them field, and quantitative skills. Throughout the following Fall Semester I mentored them through their data analysis and first poster presentations. They are now both working on peer reviewed papers.

## As Teaching Assistant

University of Arkansas  
Biometry - 2016  
Developed materials, moved labs from SYSTAT to R. [Link to Materials](#)

University of Arkansas  
Wetlands Ecology and Management - 2015

Michigan Technological University  
Field Techniques - 2010 and 2011

Michigan Technological University  
Creating Your Success - 2010 and 2011

Michigan Technological University  
Ornithology - 2011

## Professional Licenses and Certifications

**Master Bander License Holder.** Previously sub permitted in US and Canada for 13 years 14 years experience, 7000+ birds

**Wilderness First Aid** Wilderness Medicine Institute/NOLS (2/2019)

**CPR/First Aid** American Red Cross (2/2019)

**Instructor Training** Software Carpentry & Data Carpentry

**ATV Rider Certification** ATV Safety Institute

## Outreach

2016-19 **#SkypeWithAScientist** 14 Classrooms across the US

2013-17 **Outdoor Education Volunteer** Hobbs State Park, Arkansas

Lead monthly spring bird banding demonstrations to groups 40-150 of children and adults

2013-17 **Science Fair Judge** (7) Regional/Local Science Fairs NW Arkansas

2017 **Talk** Mississippi Coast Audubon Society

2015-16 **Editor** Science and Math Section Editor of Science Borealis

2015-16 **Bird Banding Demonstration** (3) Camp War Eagle Summer Camp, Arkansas

2015-6 **Biotweeps Curator** Curating a week of tweets to 2k+ people about my research for Biotweeps

2016 **Presentation** Arkansas Audubon Society Annual Meeting presentation

2015 **RealScientist Curator** Curating a week of tweets to 30k+ people about my research for RealScientists

2014-5 **Presentation** (4) Local Library Science Program, AR

2013-5 **Presentation** (3) Springdale Alternative High School, Springdale, AR

2015 **Field Trip Leader** (2) The Biggest Week In American Birding Festival

2015 **Presentation** (3) Boys and Girls Club of Bentonville, Arkansas STEAM Program

2014 **Talk** Arkansas Audubon Society Annual Conference

2011 **Outdoor Educator** W. U.P. Center for Science, Math and Envi. Education

2011 **Owl Survey Volunteer** Michigan Bird Conservation Initiative

2009 **Presentation** Kirtland Bird Club - Cleveland, OH

## Work Experience

**Lead Scientist** November 2017-2019

Prozana Solutions LLC

**Freelance Ecologist** October 2016-January 2017

Bird Studies Canada

**Environmental Education Internship**

Kellogg Bird Sanctuary, Michigan State University - Kara Hass - May - July 2012

**Bird Bander**

The Big Island, Hawaii - Dr. Jessie Knowlton - February - May 2012

**Field Technician**

Isle Royale National Park - Dr. Joseph Bump - May 2011

**Remote Sensing/GIS Technician**

Michigan Technological University - Dr. Mike Falkowski - February 2010 - December 2011

**Small Mammal/Lakeshore Restoration Technician**

Michigan Technological University - Dan Haskell - July 2010

**Field Crew Leader**

Michigan Technological University - Dr. Amber Roth March - June 2010

**Bird Bander**

Black Swamp Bird Observatory - Mark & Julie Shieldcastle - Spring and Fall 2004-2008