Shane A. Flinn
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EDUCATION

2024   **Ph.D., Fisheries and Wildlife**, Michigan State University, East Lansing, MI.
Dissertation: "The consequences of connectivity: informing fish passage and restoration decisions with decision analysis"
Advisors: Drs. Kelly Robinson and Travis Brenden

2018   **M.S., Oceanography and Coastal Sciences**, Louisiana State University, Baton Rouge, LA.
Thesis: "An evaluation of Sciaenid growth in the Gulf of Mexico"
Advisor: Dr. Stephen Midway

2016   **B.S., Fisheries and Wildlife, *With Honor***, Michigan State University, East Lansing, MI.
Research: "Spatial, temporal, and cohort-related variation of Chinook salmon in Lake MI"
Advisor: Dr. Michael Jones

2013   **A.S., Biology, *Cum Laude***, Lansing Community College, Lansing, MI.

PROFESSIONAL, RESEARCH, and TEACHING EXPERIENCE

2023   **Co-Instructor**, Fisheries Management (FW479), Spring Semester 2023, Department of Fisheries and Wildlife, Michigan State University, East Lansing, MI.

2022   **Co-Instructor**, Structured Decision Making for Natural Resource Management. One-day workshop at the Fish Passage Conference, Richland, WA, June 2022.

2020–2021   **Consulting Assistant**, College of Agriculture and Natural Resources Statistical Consulting Center**,** Michigan State University, East Lansing, MI.

2019–Present   **Graduate Research Assistant**, Quantitative Fisheries Center, Department of Fisheries and Wildlife, Michigan State University, East Lansing, MI.

2016–2018   **Graduate Research Assistant**, Department of Oceanography and Coastal Sciences, Louisiana State University, Baton Rouge, LA.

2016   **Summer Stream Technician**, Michigan Trout Unlimited, Dewitt, MI.

2016   **Guest Lecturer**, Introduction to Fisheries and Wildlife (FW101), Department of Fisheries and Wildlife, Michigan State University, East Lansing, MI.

2015–2016   **Undergraduate Research Assistant**, Quantitative Fisheries Center, Department of Fisheries and Wildlife, Michigan State University, East Lansing, MI.

2014   **Undergraduate Research Assistant**, Department of Fisheries and Wildlife, Michigan State University, East Lansing, MI.

PEER-REVIEWED PUBLICATIONS

Published

4. J. B. Hume, G. A. Bravener, **S. Flinn**, and N. S. Johnson. 2021. What can commercial fishery data in the Great Lakes reveal about juvenile sea lamprey (*Petromyzon marinus*) ecology and management? Journal of Great Lakes Research. 47: S590–S603.
3. **S.A. Flinn** and S.R. Midway. 2021. Trends in Growth Modeling in Fisheries Science. Fishes. 6:1. https://doi.org/10.3390/fishes6010001.
2. S. Midway, M. Robertson, **S. Flinn**, and M. Kaller. 2020. Comparing multiple comparisons: practical guidance for choosing the best multiple comparisons test. PeerJ. 8:e10387 http://doi.org/10.7717/peerj.10387.
1. **S. Flinn**, S. Midway, and A. Ostrowski. 2019. Age and Growth of Hardhead Catfish and Gafftopsail Catfish in Coastal Louisiana, USA. Marine and Coastal Fisheries. 11: 362–371.

In review

1. **S. Flinn**, T.O. Brenden, and K.F. Robinson. In Review. Predicting the response of fish populations to changes in river connectivity using individual-based models.

In preparation

1. **S. Flinn** and K.F. Robinson. In Prep. Using structured decision making to assess the outcomes of selective fish passage.

SKILLS

- Statistical environments: R, SAS, STAN, JAGS, BUGS
- Quantitative tools: general linear models, generalized linear models, mixed models and random effects, hierarchical modeling, Bayesian estimation, simulation and individual-based models
- Software: ArcGIS, QGIS, Latex, Microsoft Windows, Word, Excel, PowerPoint, Access
- Decision analysis (structured decision making and adaptive management)
- Group facilitation and participatory modeling
- Freshwater and marine habitat sampling and surveying techniques
- Fisheries sampling techniques (electrofishing, gillnet, trapnet, etc.)
- Age and growth techniques (otolith embedding, sectioning, aging, etc.)
- Histological techniques (embedding, sectioning, staging, etc.)

TECHNICAL TRAINING RECEIVED

6. Diversity, Equity, and Inclusion in Science, Technology, Engineering, and Math, Michigan State University, East Lansing, MI, February–April 2023.
5. Participatory Modeling Field School, University Outreach and Engagement and the Department of Community Sustainability, Michigan State University, East Lansing, MI, August 16–19, 2021.
4. Communicating through Conflict, Great Lakes Leadership Academy, Michigan State University Extension, East Lansing, MI, January 12, 2021.
3. Graphing with GGPlot, Quantitative Fisheries Center, Michigan State University, East Lansing, MI, August 2019.
2. Applications of Quantitative Methods in Fishery Management, International Council for the Exploration of the Sea, Fort Lauderdale, FL, September 22, 2017.

1. Introduction to R for Natural Resource Professionals, Quantitative Fisheries Center, Michigan State University, East Lansing, MI, May 2014.

PROFESSIONAL AFFILIATIONS

2023–Present Native Fish Coalition
2023–Present International Association for Great Lakes Research
2014–Present Trout Unlimited
2013–Present American Fisheries Society
     2019–Present North Central Division, Michigan Chapter
     2017–2020 Southern Division, Louisiana Chapter

HONOR and AWARDS

2024 William E. Ricker Distinguished Fellowship – Quantitative Fisheries Center, MSU
2023 Terry Greiner MSU Fisheries Award – Red Cedar Fly Fishers
2023 Schrems Scholar – Schrems West Michigan Trout Unlimited Scholarship
2018 Best Student Oral Presentation Louisiana Chapter AFS Annual Meeting – 2nd Place
2015 College of Agriculture and Natural Resources Study Abroad Scholarship
2013–2016 Dean's List, every undergraduate semester
2014–2015 College of Agriculture and Natural Resources Research Fellowship
2014–2015 Ruth Hurt Memorial Scholarship

PRESENTATIONS and SYMPOSIA

Symposia Organized/Co-chaired

2. Robinson, K.F. and **S. Flinn. 2024.** Decision analysis to include social and ecological values in fisheries decisions. American Fisheries Society Annual Meeting. September 15–19, 2024. Honolulu, HI.

1. Dean, E., C. Buckley, **S. Flinn**, D. Infante, and K. Robinson. **2020**. Balancing the roles of anthropogenic and natural barriers for conserving fish and fisheries. American Fisheries Society Annual Meeting. September 14–25, 2020. Virtual.

Invited and Contributed Presentations (*Presenter)

15. **Flinn, S.** and K.F. Robinson. **2023**. The consequences of connectivity: a decision analytic approach to fish passage decisions. American Fisheries Society Annual Meeting. August 20–24, 2023. Grand Rapids, MI. [Invited]

14. **Flinn, S.** and K.F. Robinson. **2023**. The consequences of connectivity: a decision analytic approach to fish passage decisions. International Association for Great Lakes Research Annual Conference. May 8–12, 2023. Toronto, ON, Canada.

13. **Flinn, S.** and K.F. Robinson. **2022**. The consequences of connectivity: a decision analytic approach to fish passage decisions. American Fisheries Society Annual Meeting. August 21–25, 2022. Spokane, WA.

12. **Flinn, S.** and K.F. Robinson. **2022**. Using structured decision making to assess the consequences of connectivity: a case study in northwest Michigan. Fish Passage 2022. June 13–16, 2022. Richland, WA.

11. **Flinn, S.** and K.F. Robinson. **2022**. Using structured decision making to assess the consequences of connectivity: a case study in northwest Michigan. Joint Aquatic Sciences Meeting. May 14–20, 2022. Grand Rapids, MI.

10. Robinson, K.F.*, C. Buckley, **S. Flinn**, H. Lin, L. Walter. **2021**. Barrier removal and remediation in the Great Lakes: accounting for scale in the decision process. American Fisheries Society Annual Meeting. November 6–10, 2021. Baltimore, MD. [Invited]

9. **Flinn, S.** and K.F. Robinson. **2020**. Using structured decision making to assess the consequences of connectivity: a case study in northwest Michigan. American Fisheries Society Annual Meeting. September 14–25, 2020. Virtual. [Invited]

8. **Flinn, S.** and K.F. Robinson. **2020**. The consequences of connectivity. Michigan State University College of Agriculture and Natural Resources Graduate Student Organization Symposium. February 21, 2020. East Lansing, MI.

7. Pensinger, L.G.*, S.R. Midway, M.J. Polito, **S. Flinn**, and A. Ostrowski. **2019**. Life history and trophic niche of Hardhead Catfish in the northern Gulf of Mexico. American Fisheries Society Annual Meeting. September 30, 2019. Reno, NV.

6. Pensinger, L.G.*, S.R. Midway, M.J. Polito, **S. Flinn**, and A. Ostrowski. **2019**. Life history and trophic niche of Hardhead Catfish in the northern Gulf of Mexico. Louisiana Chapter of the American Fisheries Society Annual Meeting. May 23, 2019. Thibodaux, LA.

5. Pensinger, L.G.*, S.R. Midway, **S. Flinn**, and A. Ostrowski. **2019**. Life history of marine catfishes in the northern Gulf Of Mexico. Southern Division of the American Fisheries Society Annual Meeting. January 26, 2019. Galveston, TX.

4. **Flinn, S.** and S.R. Midway. **2018**. Environmental drivers of Sciaenid growth in the western Gulf of Mexico. American Fisheries Society Annual Meeting. August 22, 2018. Atlantic City, NJ.

3. **Flinn, S.** and S.R. Midway. **2018**. Multi-model evaluation of Sciaenid growth in the western Gulf of Mexico. Louisiana Chapter of the American Fisheries Society Annual Meeting. May 24, 2018. Baton Rouge, LA.

2. **Flinn, S.** and S.R. Midway. **2018**. A multi-model evaluation of Sciaenid growth in the western Gulf of Mexico. Southern Division of the American Fisheries Society Annual Meeting. March 11, 2018. San Juan, Puerto Rico.

1. **Flinn, S.**, and M.L. Jones. **2015**. Spatial, temporal, and cohort-related variation of Chinook salmon in Lake Michigan. University Undergraduate Research and Arts Forum (UURAF). April 10, 2015. East Lansing, MI.