

SOLOMON R. DAVID

(734) 274-1722 • srdavid@umn.edu • solomondavid.net • [@solomonrdavid.bsky.social](https://www.bsky.social/@solomonrdavid)

EDUCATION

- Ph.D. 2012 University of Michigan, Ann Arbor**
Natural Resources and Environment
Dissertation title: Life history, growth, and genetic diversity of the Spotted Gar (*Lepisosteus oculatus*) from peripheral and core populations
- M.S. 2008 University of Michigan, Ann Arbor**
Natural Resources and Environment
Thesis title: The Influence of physical habitat factors on a near-shore fish community in the lower Muskegon River, Michigan
- B.S. 2000 Ohio Northern University, Ada**
Biology
Thesis title: A survey of the salamanders of genus *Ambystoma* and macroinvertebrate species in two woodland vernal pools, Hardin County, Ohio

PROFESSIONAL EXPERIENCE

- 2023-present **Assistant Professor**, University of Minnesota Department of Fisheries, Wildlife, and Conservation Biology (Principal Investigator at [GarLab](#); Aquatic Ecology, Freshwater Fish Conservation, Non-game & Ancient Fishes; Science Communication)
- 2017-2023 **Assistant Professor**, Nicholls State University Department of Biological Sciences (Principal Investigator at GarLab; Great Lakes, Migratory, and Ancient Fishes Ecology & Conservation; Science Communication)
- 2017 **Research Associate**, Michigan State University Department of Integrative Biology (Dr. Ingo Braasch; Evolution, Genomics, Ecology of Gars & Other Ancient Fishes)
- 2016-2017 **Research Scientist**, U.S. Geological Survey Great Lakes Science Center & John G. Shedd Aquarium (Dr. Kurt Newman; Great Lakes Native Fishes Restoration Ecology)
- 2012-2015 **Research Associate**, Daniel P. Haerther Center for Conservation & Research at John G. Shedd Aquarium and University of Wisconsin Center for Limnology (Drs. Peter McIntyre & Charles Knapp; Great Lakes Migratory Fishes Research)

- 2012 **Postdoctoral Research Fellow**, University of Michigan School of Natural Resources & Environment (Dr. James Diana; Aquaculture & Aquatic Ecology)
- 2010-2012 **Research Analyst**, University of Michigan School of Natural Resources & Environment (Dr. James Diana; Aquaculture & Aquatic Ecology)
- 2010 **Research Associate**, Michigan Sea Grant – University of Michigan (Dr. James Diana; Asian carp, Michigan native species & habitat conservation fact sheet publications & web content)

PUBLICATIONS

Peer-reviewed Publications

32. Quade, A.H., A. Ferrara, Q. Fontenot, **S.R. David**, K.S. Boyle, and G. Rieucan. 2024. Spotting gar using imaging sonar: The effects of river-floodplain habitat connectivity on a lepisosteid assemblage. *Transactions of the American Fisheries Society*. *In Press*.
31. Lackmann, A.R., D.A. Watkinson, **S.R. David**, D.L. Scarnecchia, and M.F. Docker. 2024. From neglect toward enlightenment: the conservation of native fishes in the twenty-first century. *Environmental Biology of Fishes* 107: 1305-1326.
30. Kelly, F. and **S.R. David**. 2024. Don't judge a nongame fish by its cover-age: An assessment of social media posts featuring Minnesota native fishes. *Environmental Biology of Fishes* 107: 1339-1353.
29. Doll, J.C., I. Fisher, A. Selby, S.J. Jacquemin, D. Sinopoli, and **S.R. David**. 2024. Ecomorphology of Longnose Gar (*Lepisosteus osseus*): on the influence of size, sex, and river location. *Environmental Biology of Fishes* 107: 1421-1440.
28. Sinopoli, D., T.J. Near, **S.R. David**, and P. Chakrabarty. 2024. Reassignment of a junior synonym of *Lepisosteus oculatus* Winchell 1864 to *L. platostomus* Rafinesque 1820. *Zootaxa* <https://doi.org/10.11646/zootaxa.5432.1.11>.
27. Brownstein, C.D., D.J. MacGuigan, D. Kim, O. Orr, L. Yang, **S.R. David**, B. Kreiser, T.J. Near. 2024. The genomic signatures of evolutionary stasis. *Evolution* <https://doi.org/10.1093/evolut/qpae028>.
26. Branch, T.A., I.M. Cote, **S.R. David**, J.A. Drew, M. LaRue, M.C. Marquez, E.C.M. Parsons, D. Rabaiotti, D. Shiffman, D.A. Steen, A.L. Wild. 2024. Controlled experiment finds no detectable citation bump from Twitter promotion. *PLOS One* <https://doi.org/10.1371/journal.pone.0292201>.

25. Brownstein, C.D., D. Kim, O.D. Orr, G.M. Hogue, B.H. Tracy, M.W. Pugh, R. Singer, C. Myles-McBurney, J. M. Mollish, J.W. Simmons, **S.R. David**, G. Watkins-Colwell, E.A. Hoffman, and T.J. Near. 2022. Hidden species diversity in an iconic living fossil vertebrate. *Biology Letters* doi.org/10.1098/rsbl.2022.0395.
24. Dean, E., A. Cooper, L. Wang, W. Daniel, **S.R. David**, K. Gido, E. Hale, T. Haxton, W. Kelso, N. Leonard, C. Lido, J. Margraf, M. Porter, C. Pennock, D. Propst, J. Ross, M. Staudinger, G. Whelan, D. Infante. 2022. The North American Freshwater Migratory Fish Database (NOMAD): Characterizing the migratory life histories of freshwater fishes of Canada, the United States, and Mexico. *Journal of Biogeography* 49: 1193-1203.
23. Fredrickson, A., G. Rieucan, Q. Fontenot, A. Lackmann, and **S.R. David**. 2021. Non-lethal fin clip model validation for stable isotope analysis of Spotted and Alligator Gar. *Transactions of the American Fisheries Society* 151: 72-80.
22. Rypel, A.L., P. Saffarinia, C.C. Vaughn, L. Nesper, K. O'Reilly, C.A. Parisek, M.L. Miller, P.B. Moyle, N.A. Fangue, M. Bell-Tilcock, D. Ayers, **S.R. David**. 2021. Goodbye to “rough fish”: paradigm shift in the conservation of native fishes. *Fisheries* 46: 605-616.
21. Thompson, A.W., M.B. Hawkins, E. Parey, D.J. Wcisel, T. Ota, K. Kawasaki, E. Funk, M. Losilla, O.E. Fitch, Q. Pan, R. Feron, M. Milhes, B.L. Racicot, K.L. Childs, Q. Fontenot, A. Ferrara, **S.R. David**, A.R. McCune, A. Dornburg, J.A. Yoder, Y. Guiguen, H.R. Crollius, C. Berthelot, M.P. Harris, and I. Braasch. 2021. The genome of the bowfin (*Amia calva*) illuminates the developmental evolution of ray-finned fishes. *Nature Genetics* 53: 1373–1384.
20. Cottrell, A., **S.R. David**, and P.S. Forsythe. 2021. Production and outmigration of young-of-year northern pike *Esox lucius* from natural and modified waterways connected to Lower Green Bay, Wisconsin. *Journal of Fish Biology* 99: 364-372.
19. Smith, N.G., D.J. Daugherty, E.L. Brinkman, M.G. Wegener, B.R. Kreiser, A.M. Ferrara, K.D. Kimmel, and **S.R. David**. 2019. Advances in conservation and management of the Alligator Gar: a synthesis of current knowledge and introduction to a special section. *North American Journal of Fisheries Management* 40: 527-543.
18. Hollister, R., J. Hollister, **S.R. David**, and D.A. Steen. 2018. *Crotalus oreganus* (Western Rattlesnake) Predation. *Herpetological Review* 49: 751.
17. **David, S.R.**, S.M. King, and J.A. Stein. 2018. Introduction to a special section: Angling for dinosaurs – Status and future study of the ecology, conservation, and management of ancient fishes. *Transactions of the American Fisheries Society* 147: 623-625.

16. Claussen, J., **S.R. David**, K. O'Reilly, E. Henry, N. Sopinka. 2018. #Welcome: Introducing the Science Communication Section. *Fisheries* 43: 121-122.
15. King, S.M., **S.R. David**, J.A. Stein. 2018. Relative bias and precision and utility of hard structures used to age Longnose, Shortnose, and Spotted Gars. *Transactions of the American Fisheries Society* 147: 626-638.
14. Farley, N.J., A.A. Vasquez, R.S. Kik IV, **S.R. David**, A.S. Katailaha, J.L. Ram. 2018. Primer designs for identification and environmental DNA (eDNA) detection of gars (*Lepisosteidae*). *Transactions of the American Fisheries Society* 147: 687-695.
13. Loh, T.L., E.R. Larson, **S.R. David**, L.S. de Souza, R. Gericke, M. Gryzbek, A.S. Kough, P.W. Willink, C.R. Knapp. 2018. Quantifying the contribution of zoos and aquariums to peer-reviewed scientific research. *FACETS* 3: 287-299.
12. **David, S.R.** and J.J. Wright. 2017. Genetic variation and biogeography of the Spotted Gar *Lepisosteus oculatus* from core and peripheral populations. *Journal of Experimental Zoology Part B: Molecular and Developmental Evolution* 328: 596-606.
11. Bronte, C.R., D.B. Bunnell, **S.R. David**, R. Gordon, D. Gorsky, M.J. Millard, J. Read, R.A. Stein, and L. Vaccaro. 2017. Report from the Workshop on Coregonine Restoration Science: U.S. Geological Survey Open-File Report 2017–1081, 23 p., <https://doi.org/10.3133/ofr20171081>.
10. Rypel, A.L., **S.R. David**. 2017. Pattern and scale in latitude-production relationships for freshwater fishes. *Ecosphere* 8:e01660. doi: 10.1002/ecs2.1660
9. **David, S.R.**, R.S. Kik IV, J.S. Diana, E.S. Rutherford, and M.J. Wiley. 2015. Evidence of countergradient variation in growth of Spotted Gar *Lepisosteus oculatus* from core and peripheral populations. *Transactions of the American Fisheries Society* 144: 837-850.
8. Madenjian, C.P., R.R. Rediske, J.P. O'Keefe, and **S.R. David**. 2014. Laboratory estimation of net trophic transfer efficiencies of PCB congeners to lake trout (*Salvelinus namaycush*) from its prey. *Journal of Visualized Experiments* 90: e51496 doi: 10.3791/51496.
7. Madenjian, C.P., **S.R. David**, R.R. Rediske, and J.P. O'Keefe. 2012. Net trophic transfer efficiencies of polychlorinated biphenyl congeners to lake trout (*Salvelinus namaycush*) from its prey. *Environmental Toxicology and Chemistry* 31: 2821-2827.

6. Madenjian, C.P., **S.R. David**, and S.A. Pothoven. 2012. Effects of activity and energy budget balancing algorithm on laboratory performance of fish bioenergetics models. *Transactions of the American Fisheries Society* 141: 1328-1337.
5. Wright, J.J., **S.R. David**, and T.J. Near. 2012. Gene trees, species trees, and morphology converge on a similar phylogeny of living gars (Actinopterygii: Holostei: Lepisosteidae), an ancient clade of ray-finned fishes. *Molecular Phylogenetics and Evolution* 63: 848-856.
4. Madenjian, C.P., **S.R. David**, and D.P. Krabbenhoft. 2012. Trophic transfer efficiency of methylmercury and inorganic mercury to lake trout *Salvelinus namaycush* from its prey. *Archives of Environmental Contamination and Toxicology* 63: 262-269.
3. Kwon, S.Y., J.D. Blum, M.J. Carvan, N. Basu, J.A. Head, C.P. Madenjian, and **S.R. David**. 2012. Absence of fractionation of mercury isotopes during trophic transfer of methylmercury to freshwater fish in captivity. *Environmental Science and Technology* 46: 7527-7534.
2. **David, S.R.** 2011. [Review of] An empirical synthetic pattern study of gars (Lepisosteiformes) and closely related species, based mostly on skeletal anatomy. The resurrection of holostei. *Grande, L. Copeia* 4: 612-613.
1. Bunnell, D.B., **S.R. David**, and C.P. Madenjian. 2009. A decline in bloater fecundity between 1981 and 2006: the role of adult condition. *Journal of Great Lakes Research* 35: 45-49.

GRANTS AND RESEARCH SUPPORT

- | | |
|-----------|--|
| 2025-2026 | Impacts of Common Carp control on native fishes (\$229,500); Minnesota Aquatic Invasive Species Research Center, Environment and Natural Resources Trust Fund |
| 2023-2026 | The Past, Present and Future of Lower Mississippi River Restoration: Adaptive Management for Floodplain Restoration; Improving Aquatic Connectivity and Reforesting the River; Charting a Course for Future River Restoration (\$199,999); National Fish and Wildlife Foundation (co-PI with A. Rodgers, G. Rieucan; habitat restoration & fish ecology) |
| 2021-2023 | Ecological and Social Ridge Dynamics in the Barataria-Terrebonne Basins (\$495,368); RESTORE Act Louisiana Center of Excellence (co-PI with J. Willis, Q. Fontenot, J. Whitaker, C. Bonvillain, G. McClenachan, B. Ramachandra, S. Walton, J. Doucet; coastal habitat restoration) |
| 2020-2024 | Functional Genomics in Gar - Discovery Tools for Major Vertebrate Transitions (\$1,621,944); National Science Foundation (co-PI with I. Braasch, A. Ferrara; gar genomics & culture) |
| 2020-2023 | Restoring Hydrology and Monitoring Species Response in |

- the Blackhawk Scar Lakes Ecosystem (\$400,000); National Fish & Wildlife Foundation (co-PI with A. Rodgers, G. Rieucan; habitat restoration & fish ecology)
- 2020-2021 Variation in species diversity, life history, and trophic ecology of a restored Mississippi River floodplain fish community with a focus on gars *Lepisosteidae* (\$50,000); The Nature Conservancy (PI)
- 2019-2023 Monitoring the fauna of a restored coastal wetland (\$245,503); Resource Environmental Solutions (co-PI with Q. Fontenot, G. LaFleur; habitat restoration & fish ecology)
- 2015-2017 Great Lakes Research (\$450,000); ArcelorMittal Corporation (co-PI with M. Parker, L. Joyce; dam removal & habitat restoration)
- 2015 Great Lakes Fishes Research (\$20,000); Abra Prentice Foundation (co-PI with P. Willink; dam removal & habitat restoration)
- 2014 Dam Removal & Habitat Restoration (\$7,500); James E. Dutton Foundation (PI)
- 2013-2015 Dam Removal & Habitat Restoration (\$30,000); Herrick Foundation (PI)
- 2013-2015 Great Lakes Research & Sustainability (\$120,000); HSBC Foundation (co-PI with P. Willink, M. Parker, L. Joyce)
- 2013-2015 Great Lakes Research & Sustainability (\$121,000); Institute of Museum and Library Sciences Grant (co-PI with J. Sandor, M. Parker, D. Rizzo)
- 2013 Dam Removal & Habitat Restoration (\$15,000); The Nature Conservancy Wisconsin (co-PI with P. Forsythe)
- 2012-2014 Great Lakes Research & Sustainability (\$375,000); ArcelorMittal Corporation (co-PI with M. Parker, L. Joyce)
- 2011-2012 Air-breathing Fishes Aquaculture Research Grant (\$61,400); AquaFish Collaborative Research Support Program (co-PI with J.S. Diana)
- 2010 Rackham Graduate School Spring/Summer Research Grant (\$6,000)
- 2009 School of Natural Resources & Environment Research Grant (\$4,000)
- 2009 Rackham Graduate Student Research Grant (\$3,000)
- 2009 Conservation Research Grant (\$750)
North American Native Fishes Association
- 2008-2010 Travel Grants (\$2,950); Awarded for presentations at research meetings such as 2nd and 3rd International Meetings on *Lepisosteid* Research & Management, Midwest Fish & Wildlife Meeting, Southern Division American Fisheries Society, American Fisheries Society Annual Meeting.

PRESENTATIONS AND SEMINARS

Invited Presentations (abridged)

- 2024 University of Maine, Department of Wildlife, Fisheries, and Conservation
Biology Seminar Series, Orono
- 2023 American Fisheries Society, Grand Rapids, Michigan
- 2023 Midwest Fish & Wildlife Conference, Overland Park (Keynote)
- 2023 Grand Valley State University Department of Biology Seminar Series, Allendale
- 2022 Ohio State University Evolution, Ecology, and Organismal Biology Seminar
Series, Columbus
- 2022 University of Tennessee Institute of Agriculture Seminar Series, Knoxville
- 2022 University of Louisiana at Lafayette Biology Colloquium, Lafayette
- 2022 California Academy of Sciences, San Francisco
- 2022 American Fisheries Society, Spokane (Keynote)
- 2021 American Fisheries Society, Baltimore
- 2021 Diverse Voices in Fisheries Science, UC-Santa Barbara
- 2021 Michigan State University Graduate Student Symposium, East Lansing (Keynote)
- 2020 Global Change Limnology Lab DEI Series, Miami, Ohio
- 2019 University of Miami Science Communication Workshop, Miami
- 2019 Louisiana State University Museum of Natural History Seminar, Baton Rouge
- 2018 Louisiana State University Aquaculture and Fisheries Club, Baton Rouge
- 2018 OceanDotComm18, Louisiana Universities Marine Consortium, Cocodrie
- 2017 International Association for Great Lakes Research, Detroit
- 2016 American Fisheries Society, Kansas City
- 2015 Alliance for the Great Lakes Seminar, Chicago
- 2015 State of Lake Michigan, Traverse City
- 2015 Department of Biology Seminar, North Central College, Naperville, Illinois
- 2015 Department of Biology Seminar, Loyola University, Chicago
- 2015 National Science Teachers Association Meeting, Chicago
- 2015 University of Michigan School of Natural Resources & Environment Job Trek
Panel, Chicago
- 2015 University of Wisconsin-Madison Center for Limnology Seminar
- 2014 Shedd Aquarium Trustees Leadership Series, Chicago
- 2014 University of Wisconsin-Green Bay American Fisheries Society
- 2014 Biology Department, Ohio Northern University Nature Center, Stone Creek
- 2014 Pacific Coast Cichlid Association, San Francisco
- 2014 East Coast Monster Fish Konvention 2, Parsippany, New Jersey
- 2014 Shedd Aquarium Science Pub, Chicago
- 2014 Upper Mississippi River Conservation Committee, La Crosse, Wisconsin
- 2013 Elliott Donnelley Chapter of Trout Unlimited, Chicago
- 2013 East Coast Monster Fish Konvention, Parsippany, New Jersey
- 2013 American Fisheries Society, Little Rock
- 2013 Alliance for the Great Lakes, Chicago
- 2013 Wildlife Conservation Club, University of Illinois Urbana-Champaign
- 2012 University of Michigan Hooper Aquatic Seminar Series, Ann Arbor

- 2012 4th Meeting of the International Network for Lepisosteid Research & Management, Villahermosa, Mexico
- 2011 NOAA Scientific Advisory Board, Ann Arbor
- 2010 3rd Meeting of the International Network for Lepisosteid Research & Management, Thibodaux, Louisiana
- 2010 Stewardship Network Webcast, Ann Arbor
- 2008 2nd Meeting of the International Network for Lepisosteid Research & Management, Heredia, Costa Rica

Symposia and Workshops Organized

- 2023 NONGAME: Underappreciated Fishes and their management in the United States; American Fisheries Society, Grand Rapids
- 2021 SciComm Conversations: Learning from the past, acting in the present, and preparing for the future; American Fisheries Society, Baltimore
- 2020 Storytelling Your Science: Five Minutes, Five Slides; American Fisheries Society, Virtual Meeting
- 2019 SciComm Your Story: More than One Way to Skin a Cat(fish); American Fisheries Society, Reno
- 2019 Beyond the publication: science communication strategies to increase the impact of your research; American Fisheries Society, Reno
- 2018 One Size Does Not Fit All: Tailoring Science Communication for Diverse Audiences; American Fisheries Society, Atlantic City
- 2017 From the Field to The Hill: Science Communication with Policymakers; American Fisheries Society, Tampa
- 2017 #SocialGreatLakes: Communicating Great Lakes science through social media; International Association for Great Lakes Research, Detroit
- 2017 A tribute to Jim Diana and his influence on Great Lakes research and management; International Association for Great Lakes Research, Detroit
- 2016 Department of Interior Coregonine Restoration Science Workshop, Ann Arbor
- 2016 Angling for Dinosaurs: Status and future study of the ecology, conservation and management of ancient fishes; American Fisheries Society, Kansas City

TEACHING EXPERIENCE

Assistant Professor

- 2023-present Preparing Research Proposals for Wildlife Biologists (FWCB 4603), University of Minnesota
Principles of Fisheries Science & Management (FWCB 4107), University of Minnesota
Communicating Science for Conservation (FWCB 3480), University of Minnesota
- 2017-2023 Basic Biology for Non-majors (BIOL 105), Nicholls State University
General Biology (BIOL 155), Nicholls State University
Biology of Fishes (BIOL 348), Nicholls State University

Evolution & Ecology (BIOL 370), Nicholls State University
Teaching Internship (BIOL 500), Nicholls State University
Aquatic Conservation (BIOL 474), Nicholls State University
Aquatic Conservation & Mgmt. (BIOL 577), Nicholls State University

Lecturer

2015 Ichthyology (BIO 368), Ohio Northern University, fall semester
2012 Biology of Fishes (EEB 440), University of Michigan, fall semester
2011 Ichthyology (BIO 482, 582), Eastern Michigan University, fall semester

Invited Guest Lecturer (abridged)

2024 Introduction to Careers in the Life Sciences (BIOL 1021), Rachel Perlin,
University of Minnesota
2023-2024 Ichthyology (FW 4136), Dr. Kassandra Ford, University of Minnesota
Orientation in Fisheries, Wildlife, and Conservation Biology (FW 1001),
Dr. Elena West, University of Minnesota
2022 The People Vs. The Sea (ANST-GA 2500), Paul Greenberg,
New York University
2020 Fish, Fishing, and Conservation (FiW 2234), Dr. Donald Orth,
Virginia Tech
Ichthyology (EEB 474), Dr. Benjamin Keck,
University of Tennessee-Knoxville
2018 Vertebrate Biodiversity and Conservation (BI458), Levi Moore,
Wilfred Laurier University
2017 Honors Colloquium in Biological Sciences (BIOL 406), Dr. Gary LaFleur,
Nicholls State University
2015 Molecular Aquatic Ecology (BIO 5180), Dr. Jeff Ram,
Wayne State University
2014-2015 Ecology of Fishes (ZOO 510), Dr. Peter McIntyre,
University of Wisconsin-Madison
2014 Ichthyology (BIO 341) Field Lab, Dr. Patrick Forsythe,
University of Wisconsin-Green Bay
2005 Ecology of Fishes (EEB 487), Dr. James Diana,
University of Michigan
2003-2004 Ecology of Fishes (EEB 487), Dr. Edward Rutherford,
University of Michigan

Teaching Assistant

2001-2008 Parasitology (EEB 341), Dr. Barry OConnor,
University of Michigan
2003-2004 Biology of Fishes (EEB 440), Dr. Kevin Wehrly,
University of Michigan
2000 Biological Photography (BIO 290), Dr. Erik Nelson,
Ohio Northern University

- 1999 Invertebrate Zoology (BIO 223), Dr. Erik Nelson,
Ohio Northern University
- 1998-1999 Biology/Zoology/Botany (BIO 121,122,123), All Sections,
Ohio Northern University
- 1998-1999 Developmental Anatomy (BIO 301), Dr. Nelson Moore,
Ohio Northern University

Student Mentorship

- 2024-present Alyssa Rausch, Graduate Advisor (PhD)
University of Minnesota
- 2024-present Ella Chmielewski, Undergraduate Research
University of Minnesota
- 2024-present Jonathan Sauz, Graduate Committee (PhD)
El Colegio de la Frontera Sur, Mexico
- 2024-present Griffin Blegen, Graduate Committee (MS)
Bemidji State University
- 2024-present Jenna Pearson, Undergraduate Research
University of Minnesota
- 2024 Jacob Wilson, Undergraduate Research
University of Minnesota
- 2023-2024 Faith Kelly, Graduate Advisor (MBS)
University of Minnesota
- 2023-2024 Aaron Featherstone, Undergraduate Research
University of Minnesota
- 2023-present Raine Flynn, Undergraduate Research
University of Minnesota
- 2023-present Jonathan Wilson-Thieroff, UROP Advisor
University of Minnesota
- 2022-present Daniel Sinopoli, Graduate Committee (PhD)
Louisiana State University
- 2022-2023 Michelle Lignieres, Graduate Committee (MS)
Nicholls State University
- 2022-2024 Katherine Wright, Graduate Advisor (MS)
Nicholls State University
- 2021-2023 Elizabeth Myers, Graduate Co-advisor (MS)
Nicholls State University
- 2021-2023 Haleigh Sever, Graduate Committee (MS)
Nicholls State University
- 2021-2024 Emily Ott, Graduate Committee (MS)
Nicholls State University
- 2021-2023 Dinah Cador, Graduate Advisor (MS)
Nicholls State University
- 2020-2021 Ridge Arceneaux, Undergraduate Honors Thesis Mentor
Nicholls State University
- 2020-2023 Audrey Baetz, Graduate Advisor (MS)
Nicholls State University

2020-2022 Derek Sallmann, Graduate Advisor (MS)
Nicholls State University

2020-2021 Austin Ortman, Graduate Committee (MS)
Nicholls State University

2019-2021 KristieRae Ellis, Graduate Advisor (MS)
Nicholls State University

2019-2021 Katie Gray, Research Assistantship Supervisor (MS)
Nicholls State University

2019-2021 April Simmons, Graduate Committee (MS)
Nicholls State University

2019-2020 Aimee Bertrand, Ross Candies, Katelynn Starkey, Undergraduate
Research Thesis; *Nicholls State University*

2018-2020 Anthea Fredrickson, Graduate Advisor (MS)
Nicholls State University

2018-2020 Sarah Fontana, Graduate Advisor (MS)
Nicholls State University

2018-2020 Andrew Cumberland, Graduate Committee (MS)
Nicholls State University

2017 Sarah Rogers, Undergraduate Seminar
Nicholls State University

2015 Olivia King, Conservation Research Intern
North Central College

2014-2015 Amy Cottrell, Field and Lab Research Assistant
University of Wisconsin-Green Bay, Auburn University

2014 Kayla Obremski, Aquatic Ecology Term Research Project
University of Wisconsin-Green Bay

2013-2015 Rachel Van Dam, Graduate Committee (MS)
University of Wisconsin-Green Bay

2013 Jon Bitner, Conservation Research Intern
North Central College

2012 Jayme Wagner, AquaFish Collaborative Research Support Program
Eastern Michigan University

2009-2010 Madison Schaeffer, Howard Hughes Medical Foundation Fellow
Bryn Mawr College

2009 Amy Poopat, Creative Scientific Inquiry Experience Program
Eastern Michigan University

RESEARCH EXPERIENCE

2010 Research Assistant, USGS Great Lakes Science Center
(Dr. Charles Madenjian; Lake Trout Bioenergetics Modeling)

2009 Research Assistant, University of Michigan
(Dr. David Jude; Great Lakes Larval Fishes Analyses)

2008 Research Assistant, USGS Great Lakes Science Center

(Dr. Kurt Kowalski; DIDSON Analysis of Fishes Movement in Crane Creek, high-resolution acoustics)

2007 Research Assistant, NOAA Great Lakes Environmental Research Laboratory (Dr. Carlo DeMarchi; Water Quality Modeling)

2006 Research Assistant, USGS Great Lakes Science Center (Dr. David Bunnell; Bloater Condition & Fecundity Project)

2005 Research Assistant (Crew Leader), University of Michigan (Dr. Michael Wiley; Muskegon River Project, Crane Creek Wetlands Project)

2001-2004 Research Assistant (Crew Leader), University of Michigan (Drs. Michael Wiley & Edward Rutherford; Muskegon River Projects, salmonid, fish community, and habitat assessment)

2000 Research Assistant, University of Michigan (Dr. Edward Rutherford; Muskegon River Steelhead Parr Assessment)

PROFESSIONAL MEMBERSHIPS

Alpha Lambda Delta Honor Society
 American Fisheries Society
 American Society of Ichthyologists and Herpetologists
 International Association for Great Lakes Research
 International Network for Lepisosteid Research and Management
 International Union for Conservation of Nature Freshwater Fish Specialist Group
 Lepisosteid Research and Management Committee/Alligator Gar Technical Committee
 North American Native Fishes Association
 World Fish Migration Foundation

SERVICE, SCIENCE COMMUNICATION, AND AWARDS (abridged)

2023 ['True rarity': Gigantic alligator gar caught and released in Texas reservoir could break 2 world records](#), Live Science

2023 [Toothy, ancient gar fish get new protections in Minnesota](#), Minnesota Public Radio

2022-present [Contributing Wildlife Expert](#), BBC Wildlife Magazine

2022-present "Gar Week" with Oklahoma Department of Wildlife Conservation

2022 [Q&A with Gar Expert Solomon David](#), Field & Stream Magazine

2022 [A new discovery could help save this 10-foot-long 'living fossil' fish](#), National Geographic

2021 Trudy Farrand and John Strohm Magazine Writing Award, National Wildlife Federation, articles on gar and sturgeon

2021-2023 Co-Chair, Diversity, Equity, and Inclusion Committee of the American Fisheries Society

2021-present Advisory Editor, Environmental Biology of Fishes
 2021 [Alligator Gar](#), Fish of the Week! USFWS podcast guest
 2021 [What if fish had legs?](#), Tumble Science Podcast for Kids guest
 2020 Member, Diversity, Equity, and Inclusion Committee of the American Fisheries Society
 2020 [Garology](#), Ologies science podcast guest
 2020 [The Gar Guy](#), Ranger Rick Magazine, National Wildlife Federation
 2020 [Why Native Fish Matter](#), Science Friday, NPR
 2019 Presenter, Skype-a-Scientist LIVE
 2018 Search Committee Member, Department of Biological Sciences tenure-track Faculty Search
 2017-2020 Biology Department Representative and Social Media for Give-N-Day fundraising through Nicholls Foundation
 2019-present Executive Committee, Science Communication Section of the American Fisheries Society
 2017-2019 President, Science Communication Section of American Fisheries Society
 2017 Science Party – Guest Host of Twitter chat on Science Communication for Conservation Underdogs
 2017 [Zoology for Kids](#) – Q & A on Ancient Fish and Freshwater Biodiversity
 2016-present Fisheries Science Communication
 [The Fisheries Blog](#), [Southern Fried Science](#)
 2016 World Fish Migration Day Presentation, Beaumont Middle School, Lexington, Kentucky
 2016 University of Michigan School of Natural Resources & Environment Alumni Career Panel
 2015-present Conservation Research Blogger
 The Nature Conservancy – [Cool Green Science Blog](#)
 2014-2016 [World Fish Migration Day](#) – Team Leader at Shedd Aquarium
 2014 [Television Special Guest – Great Lakes Native Fisheries](#)
 Great Lakes Now – The Nature Conservancy & Detroit Public TV
 2013-2016 Guest Blogger
 Huffington Post – Shedd Aquarium
 2012-present Science Communicator – Twitter
 [@SolomonRDavid](#) (verified account), [@PrimitiveFishes](#), [@FisheriesBlog](#)
 2012-2016 Conservation Research Blogger
 [National Geographic Voices](#) – Shedd Aquarium
 2011 Alumni War Memorial Award
 School of Natural Resources & Environment,
 Michigan Natural Resources Society
 2011-present Reviewer, Biological Reviews, American Midland Naturalist, Copeia, Fisheries, Journal of Great Lakes Research, Ecology of Freshwater Fish, Transactions of the American Fisheries Society, North American Journal of Fisheries Management
 2010 James S. Diana Aquatic Ecology Scholarship
 School of Natural Resources & Environment

- 2010 Reviewer, Fishes of the greater Mekong River ecosystem, University of Michigan Museum of Zoology, Miscellaneous Publications.
- 2009 Graduate Student Representative on Conservation Ecology Faculty Search Committee, School of Natural Resources & Environment
- 2009 Karl F. Lagler Award for Outstanding Scholar in Aquatic Sciences
School of Natural Resources & Environment
- 2009-2010 Doctoral Student Representative
School of Natural Resources & Environment Student Government
- 2009-2011 Co-founder, Co-editor, Writer for School of Natural Resources & Environment Aquatics Student Newsletter "The Water Column"
http://sitemaker.umich.edu/srdavid/files/thewatercolumn_vol2_issue1.pdf
- 2009-present Founder, Creator, Designer of Lepisosteid Research & Resource Website
<http://lepisosteidae.net>
- 2008-2012 Primary Consultant & Guest Lecturer
Great Lakes Ecology and Habitat display for Saline Elementary Schools
- 2008-2011 Student Representative for the Aquatics Field of Study
School of Natural Resources & Environment
- 2008-2012 Orientation Leader, Aquatics Representative
School of Natural Resources & Environment new student orientation
- 2007-2011 Aquatic Sciences Track Leader
School of Natural Resources & Environment
- 2007 SNRE Representative
Recruitment event at Howard University, Washington DC.
- 2004-2009 Co-Founder and Executive Member
Aquarium Society of Ann Arbor
- 2003-present Founder, Creator, and Designer
<http://primitivefishes.com>

Biological Photography (abridged)

- David, S.R.** 2021. Alligator Gar (cover). Fisheries 46: 605-616.
- David, S.R.** 2017. Back Page: Spotted Gar. Fisheries 42: 448.
- David, S.R.** 2016. Spotted gar. *In* D. Parichy, author. The gar is a fish...is a bird...is a mammal? Nature Genetics 48: 344-345.
- David, S.R.** 2011. Spotted Gar (cover). *In* A. Amores, J. Catchen, A. Ferrara, Q. Fontenot, and J.H. Postlethwait, authors. Genome evolution and meiotic maps by massively parallel DNA sequencing: spotted gar, an outgroup for the teleost genome duplication. Genetics 188: 799-808.
- David, S.R.** 2010. Spotted Gar, Longnose Gar. *In* L.D. Corkum, author. Fishes of Essex County and surrounding waters. Essex County Field Naturalists' Club. Windsor.
- David, S.R.** 2009. Spotted Gar, Florida Gar, Bowfin. *In* E. Holm, N. Mandrak, and M. Burrige, authors. The Royal Ontario Museum Field Guide to Freshwater Fishes of Ontario. Royal Ontario Museum. Toronto.
- David, S.R.** 2007. Rope Fish series. *In* P. Purser, author. Understanding the Reedfish (*Erpetoichthys calabaricus*). Tropical Fish Hobbyist 55: 118-125.

- David, S.R.** 2007. Australian Lungfish, *Polypterus endlicheri congicus*, Crocodile Gar, Alligator Gar, Bowfin, African Lungfish. *In* A. Kwasniak, author. Ancient fishes: how have they survived? Nasze Akwarium (Poland) 85: 5-12.
- David, S.R.** 2007. South American Lungfish series. *In* J. Topfer, author. Sir John Graham Kerr and the South American Lungfish (*Lepidosiren paradoxa*). Der Makropode (Germany) 29: 5-24.
- David, S.R.** 2006. South American Lungfish. *In* D. Rojat and J. Perol, editors. Fishes with lungs? Sciences de la Vie et de la Terre. Editions Nathan, Paris.