STUART A. LUDSIN

Curriculum Vita

PERSONAL INFORMATION

1314 Kinnear Rd., 222 Research Center
Aquatic Ecology Laboratory
Dept. of Evolution, Ecology & Organismal Biology (EEOB)
The Ohio State University (OSU)
Columbus, Ohio 43212

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EDUCATION

Ph.D. The Ohio State University. Evolution, Ecology and Organismal Biology, Columbus, 2000
M.S. Auburn University. Fisheries and Allied Aquacultures, Auburn, AL, 1994
B.S. Miami University. Zoology, Oxford, OH, 1992

RESEARCH/WORK EXPERIENCE

Professor. EEOB, OSU, Columbus, 2019-present
Associate Professor. EEOB, OSU, Columbus, 2013-2019
Assistant Professor. EEOB, OSU, Columbus, 2007-2013
Research Fishery Biologist. Dept. of Commerce, National Oceanic and Atmospheric Administration, Great Lakes Environmental Research Laboratory (NOAA-GLERL), Ann Arbor, MI, 2002-2007
Post-doctoral Fellow. Great Lakes Institute for Environmental Research (GLIER), Dept. of Biological Sciences, University of Windsor, Windsor, ON, Canada, 2001-2002
Graduate Research Associate. OSU, EEOB, Columbus, 1995-2000
Graduate Research Associate. Auburn University, Fisheries, Auburn, AL, 1992-1994
Undergraduate Research Assistant. OSU, Zoology, Columbus, May-July 1991

UNIVERSITY TEACHING EXPERIENCE

Instructor of Record. EEOB, OSU, Columbus 43212

- BIOL 1114H – Honors Biological Sciences: Form, Function, Diversity, and Ecology, 72 students
- BIOL 3401 – Integrated Biology, 150-200 students
- EEOB 3410 (formerly 503.01/503.02) – Introductory Ecology, ~150 students
- EEOB 4498/4498H – Undergraduate Research (Independent Study), H=honors
- EEOB 4499/4499H – Undergraduate Thesis Research (Independent Study), H=honors
- EEOB 5420 –Ecology of Inland Waters, ~19 students
- EEOB 5430 (formerly EEOB 626) – Fish Ecology, 18-48 students
- EEOB 6620 – Scientific Writing in Evolution & Ecology: Manuscripts, ~20 students
- EEOB 6630 – Scientific Writing in Evolution & Ecology: Proposals, ~20 students
- EEOB 8999 – Research for Thesis (Independent Study)
- EEOB 8896 (formerly EEOB 881) – Computer Programming for Ecologists, ~20 students
  – Foundations of Ecology, ~20 students
  – Multivariate Statistical Tools for Ecologists, ~20 students
  – Philosophy of Science, 11 students
- EEOB 8999 –Research for Dissertation (Independent Study)

Co-Instructor & Co-Organizer. OSU, School of Environment and Natural Resources, Columbus, 43212

- ENR 5194 – Climate, Agriculture & Sustainability in the Corn Belt, 8 students, Gibraltar Island, OH

Co-Instructor & Co-Organizer. University of Windsor, Biological Sciences, Windsor, ON, Canada, 2002

- Ecology, Biology & Behavior of Coral Reef Fishes, 15 students, Calabash Caye, Belize

Graduate Teaching Assistant. OSU, EEOB, Columbus, 1996-1997
Graduate Teaching Assistant. Auburn University, Zoology, Auburn, AL, 1993

PREVIOUS UNIVERSITY APPOINTMENTS

Assistant Professor. OSU, Environmental Sciences Graduate Program, Columbus
Adjunct Associate Professor. University of Michigan, School of Natural Resources and the Environment, Ann Arbor
Adjunct Assistant Professor. University of Toledo, Biology, Toledo, OH
Adjunct Assistant Professor. University of Windsor, Biological Sciences, Windsor, ON
Adjunct Faculty Member. Bowling Green State University, Biological Sciences, Bowling Green, OH

AWARDS & HONORS RECEIVED

Invited Plenary Address. American Fisheries Society, Columbus, 2025
Meritorious Service Award. North Central Division of the American Fisheries Society, 2026
Meritorious Service Award. Ohio Chapter of the American Fisheries Society, 2026
Best Student Presentation Award. Ohio Chapter of the American Fisheries Society, Wheeling, WB, 2025. Student: Kylee Wilson.
Best Student Poster Award. Joint Meeting of the Ohio, Pennsylvania, and West Virginia Chapter of the American Fisheries Society, Wheeling, WB, 2025. Student: Andrew Foley.
Best Student Poster Award. Ohio Chapter of the American Fisheries Society, Wheeling, WB, 2025. Student: Andrew Foley.
Invited Plenary Address. Ohio Chapter of the American Fisheries Society, Mt. Sterling, OH, 2024
Best Poster Award (3rd place). Denman Undergraduate Research Forum, Category: Insect & Other Animal Sciences, Columbus, 2024. Student: Olivia Houpt
Invited Keynote Address. Center for Ecosystem Management Symposium, Inaugural Conference, University of Guelph, Guelph, Ontario, Canada, 2023
Invited Keynote Address. Great Lakes of the World Symposium, 10th Annual Conference (Jubilee Celebration), Dar es Salaam, Tanzania, 2023
Invited Keynote Address. Ontario Commercial Fisheries' Association, 75th Annual Conference, Niagara Falls, Ontario, Canada, 2020
Best Student Paper Award (Honorable Mention). American Fisheries Society annual meeting, Fish Habitat Section, Reno, NV, 2019. Student: L. Zoe Almeida
Jerry Rains Memorial Abstract Competition, 1st place. Society for Theriogenology, Milwaukee, WI, 2018. Collaborator: Bryan Blawut
Best Student Presentation. Indiana & Ohio Chapters of the American Fisheries Society, Muncie, IN, 2017. Student: Rebecca A. Dillon
Best Student Poster. College of Veterinary Medicine Research Day, Columbus, 2017. Collaborator: Bryan Blawut
Best Poster Award, 2nd place (out of 35 posters). Denman Undergraduate Research Forum, Category: Animal Science: From Cattle to Bees to Seabirds and Beyond, Columbus, 2017. Student: Stephen Hadick
Jerry Rains Memorial Abstract Competition, 3rd place. Society for Theriogenology, Fort Collins, CO 2017. Collaborator: Bryan Blawut
Chandler-Misener Award. International Association for Great Lakes Research, 2015
- Most notable paper: Scavia et al. (2014). *Journal of Great Lakes Research* 40:226–246

Invited Speaker. Growth–Survival Paradigm in Early Life Stages of Fish: Controversy, Synthesis, and Multidisciplinary Approach Symposium. Yokohama, Japan, 2015
Best Student Presentation. American Fisheries Society–Ohio Chapter, Columbus, 2014. Student: Troy Farmer
Best Student Presentation Runner-up. International Association for Great Lakes Research, Hamilton, Ontario, 2014. Student: Cassandra May
Invited Keynote Address. Larval Fish Conference, American Fisheries Society, Québec City, Canada, 2014.
Most Outstanding Poster. Natural and Mathematical Sciences Undergraduate Research Forum, Organismal Biology Division, OSU, 2014. Student: Morgan Corey
Best Professional Presentation. American Fisheries Society – Ohio Chapter, Ashland, 2012. Student: Jesse Filbrun

Most Outstanding Poster. Natural and Mathematical Sciences Undergraduate Research Forum, Organismal Biology Division, OSU, 2012. Student: Kathryn Lang

Best Professional Paper. American Fisheries Society – Indiana Chapter, Indianapolis, 2009. Collaborator: Kristi Arend

Best Student Paper. American Fisheries Society–Michigan Chapter, Monroe, 2009. Collaborator: James Roberts

Faculty Recognition Award for Outstanding Research Mentorship. Undergraduate Research Opportunities Program (UROP), University of Michigan, 2007

Director's Award for Outstanding Effort. NOAA-GLERL, 2006

Employee of the Year. NOAA-GLERL, 2005

Special Service Award. NOAA-GLERL, 2005

Director's Award for Leadership and Initiative. NOAA-GLERL, 2003 and 2004

Director's Award for Volunteerism. NOAA-GLERL, 2004, 2005, and 2006

IAGLR-Hydrolab Best Student Poster Award Runner-up. International Association for Great Lakes Research, Waterloo, ON, 2004. Collaborator: S.E. Bartnik

DIALOG Symposium Participant. Bermuda Biological Station for Research, 2001

- One of 40 Ph.D. recipients worldwide

University Presidential Fellowship. OSU, 1999

John E. Skinner Memorial Award. American Fisheries Society, Halifax, Nova Scotia, 1994

Gamma Sigma Phi Honor Society of Agriculture. Alabama Chapter, 1993

Golden Key National Honor Society. Miami University, 1991

PROFESSIONAL SERVICE & SYNERGISTIC ACTIVITIES

Editorial Advisor. *Aquatic Ecosystem Health and Management*, Michigan State University Press, 2023-present

External Evaluator. Louisiana State University, Department of Oceanography & Coastal Sciences, Promotion to Full Professor, 2025

External Evaluator. University of Florida, School of Forest, Fisheries, and Geomatics Sciences, Promotion to Full Professor, 2025

External Evaluator. University of West Virginia, Department of Fisheries and Aquatic Ecology, Promotion to Associate Professor, 2025

Interviewee. For video celebrating the 100th anniversary of OSU's Stone Laboratory, 2025.

- ohioseagrant.osu.edu/news/2025/9r4p7/lake-erie-scientist-explains-sls-vital-role-in-research

Co-Editor-in-Chief and Co-Coordinator. *Aquatic Ecosystem Health & Management* Lake Erie ecology special issue series, 2023-2026

- Year, volume(issue): 2023, 26(4); 2024, 27(1); 2025, 28(1) and 28(4)

Coordinator. OSU – Ohio Division of Wildlife Lake Erie & Inland Waters Annual Research Review Meeting, Columbus, annually during 2014-2025

Panelist. Lake Erie Cisco Threats Assessment Expert Panel. Great Lakes Fishery Commission, 2024 (virtual)

Organizer. 47th Larval Fish Conference, Early Life History Section of the American Fisheries Society, Huron, OH, 2024

Co-organizer. "Lake Erie Ecosystem-based Fisheries Management" Workshop, Ann Arbor, MI, 2024

Co-organizer. Research Experiences for Undergraduates Program, Aquatic Ecology Laboratory, OSU, Columbus, 2023-2024

- Attended by ~160 people including 70 Ohio DNR biologists

Review Panel Member. Large Grants Panel, Ohio Sea Grant College Program, Columbus, 2023

Scientific Committee Co-chair. 10th Great Lakes of the World Symposium (GLOW10), Dar es Salaam, Tanzania, 2022-2023

Technical Advisory Committee. Great Lakes fishery fact sheet development Great Lakes Fishery Commission, 2022-2023

Co-organizer. "History & Origin of the Ecosystem Approach" Workshop, Windsor, ON, 2022

Co-organizer. "Great Lakes Fisheries Science Training" Workshop, Stone Laboratory, Gibraltar, Island, Lake Erie, 2022

External Evaluator. University of Toronto Mississauga, Dept. of Biology, Tenure evaluation, 2022
Session Co-chair. Ecosystem Approach Conference, Windsor, ON, 2022
Symposium Co-chair. Joint Aquatic Sciences Meeting, Grand Rapids, MI, 2022
Member/Theme Leader. Aquatic Life Use and Impairment Designation Working Group, Ohio Environmental Protection Agency, 2020-2022
Co-organizer/Steering Committee Co-chair. "Great Lakes Fish Recruitment and Ecosystems Database" Workshop, 2021 (virtual)
External Evaluator. Institute of Oceanography, College of Science, National Taiwan University, Faculty Position Search, 2021
Ad hoc Reviewer. NOAA, Office of Oceanic and Atmospheric Research Outstanding Paper Awards Competition, 2021
Symposium Co-chair. American Fisheries Society, Columbus, 2020
External Evaluator. George Mason University, Dept. of Environmental Science and Policy, Promotion to Associate Professor, 2020
External Evaluator. University of Illinois, Dept. of Natural Resources and Environmental Sciences, Promotion to Associate Professor, 2020
Advisory Committee Member. Ohio Sea Grant College Program, 2010-2020
Advisory Committee Member. Stone Laboratory, 2010-2020
Board of Technical Experts (BOTE) . Great Lakes Fishery Commission, 2007-2020

- Co-developer of the research theme "Physical Processes and Fish Recruitment in Large Lakes"
- Pre-proposal and full proposal review panel member

Steering Committee Member. Ohio Water Consortium, 2019
Associate Editor.

- *Journal of Great Lakes Research*, 2015-2019
- *Transactions of the American Fisheries Society*, 2005-2008

Expert Participant & Presenter. Ohio Fish Consumption Advisory Committee annual meeting, Columbus, 2019
Panelist & Presenter. NOAA CoastWatch Users Engagement Session, Ann Arbor, MI, 2019
Participant & Presenter. Great Lakes Research at OSU NOAA-GLERL & Ohio Sea Grant College Program Columbus, 2019
Symposium Co-chair. International Association for Great Lakes Research, Brockport, NY, 2019
Testimonial Presenter. Ohio Sea Grant Program, NOAA site visit, Columbus, 2019
Theme Leader. 2019 "Lake Erie Coordinated Sampling and Monitoring Initiative" workshop, US Environmental Protection Agency and Environment Canada, Oregon, OH, 2017
Proposal Peer Review Panel. Great Lakes Fishery Trust, Lansing, MI, 2017-2018
External Evaluator. Cornell University, Dept of Natural Resources, Promotion to Full Professor, 2016
Symposium Co-chair. American Geophysical Union, San Francisco, CA, 2016
Management Council. Cooperative Institute for Limnology and Ecosystem Research, University of Michigan, Ann Arbor, 2015-2016
Climate Change Outreach Team. Ohio Sea Grant College Program, 2011-2016
Council of Fellows Member. Cooperative Institute for Limnology and Ecosystems Research (CILER), University of Michigan, 2011-2015
Advisory Committee Member. Great Lakes Aquatic Ecosystem Research Consortium, 2010-2016
Advisory Committee Member. Center for Lake Erie Area Research (CLEAR), 2010-2016
Co-organizer. "Hierarchical Modeling" Workshop, Columbus, 2015
External Evaluator. Czech Academy of Sciences, Biological Sciences Division, 2015
Symposium co-chair. International Association for Great Lakes Research, Burlington, VT, 2015
Technical Advisory Committee. Healing Our Waters-Great Lakes Coalition, 2009-2015
Co-organizer. "Echoview training" workshop, Columbus, 2014
Co-organizer/Steering Committee Co-Chair. "Modeling tools for analysis and forecasting of fish recruitment and its response to physical processes" workshop, Huron, OH, 2014
External Reviewer. Canadian Foundation for Innovation competition, Office of Research and Innovation, University of Toronto, Toronto, 2014

Participant. "Aquatic invasive species impacts on the Great Lakes ecosystems" workshop, Cornell University, Ithaca, NY, 2014
Reverse Site Visit Review Panelist. Experimental Program to Stimulate Competitive Research (EPSCoR) Program, National Science Foundation, 2014
Symposium co-chair International Association for Great Lakes Research, Hamilton, ON, 2014
Technical Review Board Member. Lake Erie Percid Management Advisory Group, 2014
Co-organizer/Steering Committee Co-Chair. "Physical-biological coupling as a driver of fish recruitment under changing ecosystem states" workshop, Huron, OH, 2013
Symposium Co-chair. International Association for Great Lakes Research, West Lafayette, IN, 2013
Symposium Co-chair. International Association for Great Lakes Research, West Lafayette, IN, 2013
Member. TAcLE (Taking Action on Lake Erie) Work Group, International Joint Commission Science Advisory Board, 2012-2013
Expert Scientist. Asian Carp Impacts on Great Lakes Food Webs, University of Notre Dame, 2012
Co-organizer/Steering Committee Co-Chair. "Physical-biological coupling and fish recruitment in large lakes: State of knowledge and opportunities for progress" workshop, Romulus, MI, 2011
Review Panel Member. Population & Community Ecology, Division of Environmental Biology, National Science Foundation, 2010
Expert Reviewer. Report entitled "Trace element and isotopic compositions of otoliths from two bighead carp collected in the Chicago area", Southern Illinois University, 2010 (see http://asiancarporg/)
Symposium Co-chair. International Association for Great Lakes Research, Toledo, OH, 2009
Panel Member. Climate Change in the Great Lakes Region Conference, Michigan State University, East Lansing, MI, 2008
Symposium Co-chair. Association for the Sciences of Limnology and Oceanography, Santa Fe, NM, 2007
Symposium Co-chair. International Association for Great Lakes Research, University Park, PA, 2007
Symposium Co-chair. International Association for Great Lakes Research, Peterborough, Ontario, 2008
Steering Committee Member. "Ecological impacts of hypoxia" workshop, Bay St Louis, MS, 2007
Strategic Team Member. Economic Impacts of Great Lakes Restoration, 2006-2007
Working Group Member. Lake Erie Lakewide Management Plan (LaMP), 2005-2007
Working Group Member.Non-indigenous Invasive Species, NOAA-GLERL, 2003-2007
Symposium Co-chair. International Association for Great Lakes Research, Windsor, ON, 2006
Symposium Co-chair. International Association for Great Lakes Research, Ann Arbor, MI, 2005
Co-organizer. Lake Erie Science Planning Workshop, NOAA-GLERL, 2004
Working Group participant. World Bank Connectivity, Inaugural meeting, Miami, FL, 2002
Co-Coordinator. Great Lakes Commercial Catch Data, Great Lakes Fishery Commission, 1998-2000
Member. Ecosystem Objectives Subcommittee, Lake Erie Lakewide Management Plan, 1997-2000
Participant. Lake Erie Forage Task Group, Port Dover, ON, 1997
Proposal Peer Reviewer (*ad hoc*)

- European Science Foundation
- Great Lakes Fishery Commission
- Great Lakes Fishery Trust
- Hudson River Foundation
- Natural Sciences and Engineering Research Council of Canada (NSERC)
  - Alliance Program
  - Discovery Program
- National Science Foundation
  - Biological Oceanography
  - Biology
  - Ecosystem Science
  - Experimental Program to Stimulate Competitive Research (EPSCoR)
  - International Research Fellowship
  - Population & Community Ecology
- NOAA
  - Alaska Sea Grant
  - Connecticut Sea Grant
  - CSCOR Program
  - CAMEO Program
  - Maryland Sea Grant
  - Michigan Sea Grant
  - Mississippi-Alabama Sea Grant
  - National Marine Fishery Service
  - Oregon Sea Grant
  - Rhode Island Sea Grant
  - Wisconsin Sea Grant
- National Undersea Research Center (UNC)
- Ohio State University OARDC Seeds Program

Journal Peer Reviewer (*ad hoc*; N = 42 journals)

- *Aquacultural Engineering*
- *Aquatic Ecosystem Health & Management*
- *Behavioral Ecology and Sociobiology*
- *Biological Invasions*
- *Biology Letters*
- *Canadian Journal of Fisheries and Aquatic Sciences*
- *Ecological Applications*
- *Ecological Monographs*
- *Ecology*
- *Ecology of Freshwater Fish*
- *Ecosystems*
- *Environmental Biology of Fishes*
- *Environmental Management*
- *Environmental Science & Technology*
- *Estuarine, Coastal and Shelf Science*
- *Fisheries*
- *Fisheries Oceanography*
- *Fishery Bulletin*
- *Forecasting*
- *Freshwater Biology*
- *Global Change Biology*
- *Hydrobiologia*
- *ICES Journal of Marine Science*
- *iScience*
- *Journal of Experimental Marine Biology & Ecology*
- *Journal of Great Lakes Research*
- *Journal of Thermal Biology*
- *Limnology and Oceanography*
- *Limnology and Oceanography Letters*
- *Marine and Freshwater Research*
- *Marine Ecology Progress Series*
- *Nature Education*
- *North American Journal of Fisheries Management*
- *Oecologia*
- *PLoS ONE*
- *Proceedings of the Royal Society B*
- *Progress in Oceanography*
- *Rapid Communications in Mass Spectrometry*
- *Reviews in Fish Biology and Fisheries*
- *Science of the Total Environment*
- *Scientific Reports*
- *Transactions of the American Fisheries Society*

Textbook Peer Reviewer (*ad hoc*)

- *Biology and Ecology of Fishes*, 2nd edition, John Wiley & Sons, Inc.
- Oxford University Press (undergraduate ecology textbook)
- Simbio Software (SimUText electronic textbook)

PROFESSIONAL ORGANIZATION MEMBERSHIP & SERVICE

American Association for the Advancement of Science
American Association of University Professors
American Fisheries Society (AFS)

- President, Ohio Chapter, 2026-present
- Historian, Early Life History Section, 2022-present
- Governing Board Member (ex officio), 2022-2024, 2026-present
- Resource Policy Committee Member, 2021-present
- Milt Austin Award Evaluations Panel Member, State Science Day, Columbus, 2026
- Panelist, "Scientific Writing for Early Career Scientists" webinar, Early Life History Section, AFS, 2026.
- President-elect, Ohio Chapter, 2025-2026
- Program Committee Member, 156th annual meeting, 2025-2026
- Agency Panel Discussion Moderator, Ohio, Pennsylvania and West Virginia Chapter meeting, Wheeling, WV, 2025
- John Blaxter Best Student Poster Award Evaluations Panel Member, 2000, 2002, 2023, 2025
- Early Career Committee Panelist, Larval Fish Conference, Quebec City, Canada, 2025
- President, Early Life History Section, 2022-2024
- President-elect, Early Life History Section 2021-2022
- Early Life History Section Early Career Mentor, 2021
- Scientific Program Committee Member & Symposia Chair, 150th annual meeting, 2020-2021
- Continuing Education Track Co-Developer. Track Title: "Early life-history of fishes". 150th annual meeting, Columbus, 2020. (Cancelled due to COVID pandemic)

- Plenary Session Co-organizer. Midwest Fish and Wildlife Conference, Cleveland, OH, 2018-2019.
- Organizer and Moderator. "Demystifying proposal writing" workshop, Early Career Event, Larval Fish Conference, Victoria, BC, 2018.
- Sally Leonard Richardson Best Student Paper Award Evaluations Panel Member, 2017
- President, Auburn University Chapter of AFS, Auburn, AL, 1993-1994
- Treasurer, Auburn University Chapter of AFS, 1992-1993

Aquatic Ecosystem Health and Management Society (AEHM)
American Institute of Biological Science (AIBS)
Association for the Sciences of Limnology and Oceanography (ASLO)
Ecological Society of America (ESA)

- ESA Scientific Planning Committee, EcoSummit International Conference, 2011-2012

International Association for Great Lakes Research (IAGLR)

- Publications Committee member, 2014-present
- Expert Panel Member, 2008-present
- Paul W. Rodger's Scholarship Evaluations Panel, member, 2015
- Board of Directors, elected U.S. representative, 2012-2015
- Nominations Committee Chair, 2012-2015
- IAGLR Scholarship Evaluations Panel, member, 2014
- Evaluator of student papers, 2014, 2017
- Norman S. Baldwin Scholarship Evaluations Panel, member, 2002, 2008, and 2013

Sigma Xi
Society for Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS)

UNIVERSITY, COLLEGE AND UNIVERSITY SERVICE

University

Member. Presidential Fellowship Review Committee, OSU, 2026-present
Member. University Senate, Division of Natural and Mathematical Sciences representative, OSU, 2026-present
Member. University Senate Faculty Cabinet, OSU, 2026-present
Member. Evaluation of Central Administrators Committee, OSU, 2024-present

- Chair, 2026
- Subcommittee Co-chair, 2025

Panelist. Fish & Wildlife Society, OSU, 2026
Graduate Faculty Representative. College of Arts and Sciences, OSU, 2010-2011, 2014, 2016-2018, 2020-2022, 2024
Interviewee. Sustainability Research Visioning Committee, OSU, 2023
External Evaluator. Course review of ENR 5350 (Taxonomy & Behavior of Fishes), School of Environment and Natural Resources, OSU, 2022
Steering Committee Member. Water Collaboratory: Water@OhioState. OSU, 2020-present

- Co-developing a website for water professionals at OSU

Co-facilitator. Addressing Equity and Inclusion in Your Research Mentoring workshops. OSU, Columbus. (virtual)

- February 15, 2024
- August 19 & November 9, 2022
- May 11 & July 14, 2021

Ex Officio Member. University-Level Advisory Committee for General Education, OSU, 2020-2021
Participant & Presenter. Governor DeWine's State Cabinet Directors, OSU Sustainability Institute, Columbus, 2019
Steering Committee Member. Ohio Water Consortium, OSU, 2019
Reviewer. MAGS Distinguished Master's Thesis Competition, The Graduate School, OSU, 2018
Poster Judge. Denman Undergraduate Research Forum. OSU, 2014

Poster Judge. Edward F. Hayes Graduate Research Forum, OSU, 2014
Abstract Judge. Edward F. Hayes Graduate Research Forum, OSU, 2013

College

Interviewee. Voices of Excellence podcast, College of Arts and Sciences, OSU, 2026
- podcast.osu.edu/voices-of-excellence/stuart-ludsin-and-the-mystery-of-the-yellow-perch/

Faculty Senate. College of Arts and Sciences, OSU
- Steering Committee Member, 2021-2022
- EEOB Senate Representative, 2017-2022 (Alternate Representative, 2021-2022)
- Faculty Chair, 2019-2021
- Ex Officio Member, Focus on Institutional Racism and Sexism for Transformative Teaching (FIRSTT) Committee, 2020-2021

Steering Committee Member. College of Arts and Sciences, OSU, 2020-2021
Member. EEOB Chairperson Search Committee, College of Arts and Sciences, OSU, 2013
Member. Campus Campaign Fundraising Committee, College of Biological Sciences, OSU, 2008

Department

Faculty Mentor. EEOB, OSU
- Rachelle Adams, Associate Professor, 2024-present
- Steve Chordas, Clinical Assistant Professor, 2026-present
- Jennifer Hellmann, Assistant Professor, 2024-present
- Samantha Herrmann, Clinical Assistant Professor, 2026-present
- Casey Pennock, Assistant Professor, 2024-present

Chair. Peer Evaluation of Teaching Committee, OSU, 2025-present
Procedures Oversight Designee (POD), EEOB, OSU, 2024-present
Member. College Eligible Faculty (Promotion & Tenure Committee), EEOB, OSU, 2013-present
Committee of Diversity, Equity, and Inclusion. EEOB, OSU
- Chair, 2020-2021
- Coordinator and Moderator, EEOB Diversity, Equity, and Inclusion Book Club, 2021
- Member, 2021-2022, 2024-2025

Member. Curriculum Committee, EEOB, OSU, 2022-2024
Member. Freshwater Population/Community Ecologist Faculty Search Committee, EEOB, OSU, 2022
Member. Graduate Studies Committee, EEOB, OSU, 2015-2017, 2021-2022
Communications Committee. EEOB, OSU
- Chair, 2016-2017
- Member, 2015, 2018, 2021-2022

Seminar Committee. EEOB, OSU
- Chair, 2008
- Member 2007, 2010, 2018-2019

Member. Aquatic Ecosystems Ecologist Faculty Search Committee, EEOB, OSU, 2014-2015
Member. Social Events Committee, EEOB, OSU
- Chair, 2013-2014
- Member, 2012

Member. Advisory Committee to the Chair, EEOB, OSU, 2011-2014
Member. Graduate Admissions Committee, EEOB, OSU, 2010-2012
Member. Ecology Curriculum Committee, EEOB, OSU, 2009-2012
Student Representative. Advisory Committee to the Chair, EEOB, OSU, 1998-2000
Student Representative. Renaming Committee, Zoology, OSU, 1997-1998

TOTAL RESEARCH FUNDING

Funding Source	Ongoing	Completed	Total
State	$1,910,064	$22,117,997	$24,028,061
U.S. Federal	$199,342	$6,535,728	$6,735,070
International	$1,538,710	$2,814,893	$4,353,603
NGO/Foundation	$1,500,000	$76,000	$1,576,000
Totals	**$5,148,116**	**$31,544,618**	**$36,692,734**

Ongoing

1. NOAA, Ohio Sea Grant College Program. "Lake Erie ecosystem health assessment to benefit fisheries management decision-making". PI, 2026-2028, $199,342.
2. Ohio Department of Higher Education. "Assessment of historical and current dredging practices on HABs and biological productivity in Lake Erie." PI, 2026-2028, $268,304.
3. Great Lakes Fishery Commission. "Data-sharing infrastructure to support of ecosystem-based fisheries management." PI, 2025-2028, $474,789.
4. Ohio Department of Natural Resources-Division of Wildlife, Federal Aid in Sport Fish Restoration Program. "Fish Management in Ohio". PI, 2025-2026, $1,500,000.
   Below are research, administrative, and training budgets that I directly manage, or am a "true" PI or Co-PI (i.e., administrative and research projects that are managed by another PI, ODNR-DOW partner, or subcontractor as part of this umbrella grant are not listed).
   - FADB02: AEL basic services. PI, 2025-2026, $239,397.
   - FADR87: Understanding yellow angling success in western Lake Erie. PI, 2025-2026, $90,916.
   - FADR90: Understanding central Lake Erie Yellow Perch recruitment dynamics. PI, 2025-2026, $101,775.
   - FADX07: AEL Fisheries in-service training. PI, 2025-2026, $18,621.
5. Great Lakes Fishery Commission. "Can dam removal enhance river-spawning stock contributions of recruits to an open-lake population and its fisheries? A test case with Lake Erie Walleye." PI, 2024-2028, $468,145.
6. Great Lakes Fishery Commission. "Understanding hypoxia's impact on Lake Erie fisheries under altered nutrient and climate conditions." PI, 2024-2027. $100,000.
7. Great Lakes Fishery Commission. "Moving toward ecosystem-based fisheries management: Conceptualizing Lake Erie's dynamic ecosystem." Co-PI, 2023-2026, $330,268.

Completed

1. Ohio Department of Natural Resources-Division of Wildlife, Federal Aid in Sport Fish Restoration Program. "Fish Management in Ohio". PI, 2010-2025, $13,105,941.
   Below are research, administrative, and training budgets that I directly manage, or am a "true" PI or Co-PI (i.e., administrative and research projects that are managed by another PI, ODNR-DOW partner, or subcontractor as part of this umbrella grant are not listed).
   - FADR87: Understanding yellow angling success in western Lake Erie. PI, 2021-2025, $591,102.
   - FADR86: Understanding interactions between blue catfish and channel catfish in Ohio. PI, 2021-2025, $610,773.
   - FADB02: AEL basic services. PI, 2011-2025, $4,634,817.
   - FADX07: AEL Fisheries in-service training. PI, 2011-2025, $224,606.
   - FADX09: Lower trophic level impacts on fish recruitment. PI/Co-PI, 2012-2023, $1,571,065.
   - FADR79: Assessing prey availability to sportfish in Ohio reservoirs. PI, 2016-2021, $382,952.

- FADR78: Walleye use of the Lake Erie reef complex during the spring spawning season. PI, 2016-2020, $210,386.
- FADR75: Is food quality limiting Walleye recruitment in Lake Erie? PI, 2015-2021, $815,406.
- FADR74: Channel catfish stock and gear assessment. PI, 2015-2021, $755,153
- FADR65: Retrospective analysis of the causes and consequences of Lake Erie change. PI, 2011-2018, $489,594.
- FADR68: Lake Erie walleye stock discrimination methods and applications. PI, 2010-2017, $716,063.
- FADR73: Modeling assessment of habitat quality for Ohio reservoir sportfishes. PI, 2014-2016, $103,140.
- FADR67: The influences of hydrodynamics, early growth, and larval movement on walleye recruitment on the western basin of Lake Erie. Co-PI, 2010-2016, $579,942.
- FADR69: Role of biophysical coupling in walleye recruitment. PI, 2011-2015, $268,675.
- FADR62: Meteorological effects on Lake Erie yellow perch reproduction and recruitment. PI, 2009-2015, $541,988.
- FADX14: Improved reliability of production in fish rearing ponds. Co-PI, 2011-2013, $94,946.
- FADR60: Ecosystem-based modeling evaluation of stocked predator introductions on reservoir food webs. PI, 2009-2011, $104,349.
- FADR61: A bioenergetics-based evaluation of hybrid striped bass habitat quality in Ohio reservoirs. PI, 2009-2011, $182,284.

2. Erb Family Foundation. “An ensemble modeling approach to assess Lake Erie’s response to changes in nutrient loads.” Co-PI, 2024-2026, $1,500,000.
3. Great Lakes Fishery Commission. “Quantifying the impacts of climate change on growth, survival, recruitment, and production to enable sustainable management of yellow perch in Lake Erie.” Co-PI, 2024-2026, $165,508.
4. Ohio Department of Higher Education. “Direct and indirect impacts of cyanotoxins on human health and well-being: a review.” PI, 2024-2026, $116,317.
5. Great Lakes Fishery Commission. “Do summer cyanobacterial blooms negatively affect prey and commercial fish recruitment in the Great Lakes?” Co-PI, 2020-2024, $364,350 (CAN).
6. Ohio Department of Higher Education. “Toward the improvement of methods to quantify total microcystins and microcystin congeners in fish”. PI, 2020-2024, $63,662.
7. Great Lakes Fishery Commission. “A unified model of walleye recruitment” Co-PI, 2020-2023, $187,728.
8. NOAA Fisheries. “Great Lakes Fisheries Science Training (FST) workshop for undergraduates.” PI, 2020-2023, $139,802.
9. Great Lakes Fishery Commission. “Do discrete spawning stocks contribute differentially to Lake Erie’s walleye fisheries?”. Co-PI, 2016-2023, $273,000.
10. Great Lakes Fishery Commission. “Habitat quality as a driver of Lake Erie walleye population dynamics: past, present & future”. PI, 2016-2023, $284,691.
11. Great Lakes Fishery Commission. “Physical processes and fish recruitment in large lakes: Phase II.”. PI, 2016-2023, $220,000.
12. Great Lakes Fishery Commission. “Moving toward ecosystem-based fisheries management: developing an integrated ecosystem assessment of Lake Erie as a case study”. Co-PI, 2019-2022, $136,582.
13. Ohio Lake Erie Commission. “HAB & hypoxia impacts on Lake Erie food webs and fisheries.” PI, 2019-2021, $49,924.
14. NOAA, Ohio Sea Grant College Program. “Stock structure and contribution of west and east basin walleye to recreational and commercial fisheries in Lake Erie”. PI, 2018-2021, $119,724.
15. Ohio Department of Higher Education. “Physiological, growth and survival response of age-0 yellow perch and walleye to toxic cyanobacteria”. PI, 2018-2021, $152,886.

16. National Science Foundation, Division of Integrative Organismal Systems. "The influence of the prey physiological stress response on predator-prey interactions". Co-PI, 2016-2021, $652,556.
17. Ohio Department of Higher Education. "Development of the MMPB method for quantifying total microcystins in edible fish tissues". PI, 2016-2018, $156,617.
18. Ohio Department of Higher Education. "Fish flesh and fresh produce as sources on microcystin exposure to humans". PI, 2015-2017, $162,598.
19. National Science Foundation, Coupled Natural and Human Systems Program. "Co-evolution of upstream human behavior and downstream ecosystem services in a changing climate". Co-PI, 2011-2017, $1,499,995.
20. The Nature Conservancy. "Western Lake Erie Basin conservation effects assessment project". PI, 2016, $15,000.
21. United States Department of Agriculture, Natural Resources Conservation Service. "Integrating the cropland and wildlife components of the conservation effects assessment project (CEAP) to assess and forecast benefits of agricultural BMPs to biological endpoints across the western Lake Erie basin watershed". Co-PI, 2013-2016, $271,416.
22. NOAA, Ohio Sea Grant College Program. "Impacts of climate change on public health in the Great Lakes through harmful algal blooms". Co-PI, 2012-2016, $189,506.
23. Columbus Zoo. "Brindled madtom reintroduction project". PI, 2010-2016, $8,905.
24. Great Lakes Fishery Commission. "Physical-biological coupling and the challenge of understanding recruitment in large lakes". PI, 2011-2015, $203,969.
25. Ohio Lake Erie Commission. " Updating the Planktonic Index of Biotic Integrity (P-IBI) for Lake Erie". PI, 2014, $3,130.
26. Energy Foundation. "Climate impacts on the Lake Erie Fishery". Co-PI, 2012-2014, $61,000.
27. Great Lakes Fishery Commission. "A coupled physical-biological model to forecast larval yellow perch distributions, growth rates, and potential recruitment in Lake Erie". Co-PI, 2011-2014, $199,699.
28. NOAA, ECOFORE Program. "ECOFORE 2006: Forecasting the causes, consequences, and potential solutions for hypoxia in Lake Erie". Co-PI, 2006-2014, $2,200,000
29. Great Lakes Fishery Commission. "Winter warming effects on yellow perch reproduction and recruitment". PI, 2010-2013, $112,725.
30. Ontario Ministry of Natural Resources. "Effects of hydrodynamic processes on Lake Erie walleye recruitment". PI, 2010-2013, $34,000.
31. Great Lakes Fishery Commission. "Determination of micro-elemental stability of sea lamprey statoliths". Co-PI, 2009-2012, $175,623.
32. Great Lakes Fishery Commission. "River discharge as a predictor of Lake Erie yellow perch recruitment". PI, 2006-2011, $347,583.
33. Ohio Lake Erie Commission. "Using satellite imagery for fisheries management". PI, 2009-2010, $14,750.
34. Great Lakes Fishery Commission. "Experimental and spatial modeling of environmental factors affecting foraging success of age-0 yellow perch". Co-PI, 2007-2010, $146,640.
35. NOAA, Center for Sponsored Coastal Ocean Research Program. "NGOMEX 2006: Spatially-explicit, high-resolution mapping and modeling to quantify hypoxia effects on the living resources of the Northern Gulf of Mexico". Co-PI (Project leader), 2006-2009, $1,462,729
36. Great Lakes Fishery Commission. "Micro-elemental analysis of statoliths as a tool for tracking tributary origins of sea lamprey". PI, 2004-2006, $96,315.
37. Lake Champlain Sea Grant Program. "Development of a population viability model to optimize sea lamprey control strategies in Lake Champlain". Co-PI, 2004-2006, $103,411.
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39. Ohio Department of Natural Resources-Division of Wildlife, Federal Aid in Sport Fish Restoration Program. "Species interactions among young-of-year fishes in Lake Erie". Co-PI (Project Leader), 1995-2001: $456,682.

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6. Jiang, L., M. Xia, **S.A. Ludsin**, E.S. Rutherford, D.M. Mason, J. Marin Jarrin, and K.L. Pangle. 2015. Dreissenid mussel impacts on plankton dynamics in western Lake Erie. Lake Scientist, Fondriest. http://www.lakescientist.com/research-summary-dreissenid-mussel-impacts-on-plankton-dynamics-in-western-lake-erie/.
7. Zhang, X., L. Bahner, R.J. Wood, E.J. Martino, **S.A. Ludsin**, R. Murtugudde, M.B.K. Prasad, R.R. Hood, and W. Long. 2011. Chesapeake Bay striped bass habitat suitability and bioenergetics modeling and forecasting: from physics to fish. Pages 115-120 (Chapter 14) in A.L. Mason, D. Apeti, and D. Whitall, editors. National Centers for Coastal Ocean Science (NCCOS) Research Highlights in the Chesapeake Bay. NOAA Technical Memorandum NOS NCCOS 128. National Ocean Service. National Centers for Coastal Ocean Science, Silver Spring, MD. 166 pp.
8. Smith, R.E.H, and **S.A. Ludsin**. 2009. Physical-biological coupling and the challenge of understanding fish recruitment in large lakes. Fisheries Research Program, New Research Theme White Paper, Great Lakes Fishery Commission, Ann Arbor, MI. 40 pp.
9. **Ludsin, S.A.**, D.M. Dolan, R.P. Richards, J.T. Tyson, K.A. Kayle, T.B. Johnson, and R.A. Stein. 2009. Exploration of linkages between oligotrophication and percid dynamics in Lake Erie. Pages 16-19 in The State of the Lake Erie 2004. Great Lakes Fishery Commission, Ann Arbor, MI.
10. Eadie, B.J., **S.A. Ludsin**, D.J. Schwab, J. DePinto. 2004. Lake Erie research planning workshop. NOAA's Great Lakes Environmental Research Laboratory, Ann Arbor, MI. 28 pp.
11. Kritzer, J.P., **S.A. Ludsin**, and P.F. Sale. 2002. Report of the 1st meeting of the World Bank Connectivity Working Group. Miami, FL. 37 pp.
12. Colavecchia, M., **S. Ludsin**, P. Bertram, R. Knight, S. George, H. Biberhofer, and P. Ryan. 2000. Identification of ecosystem alternatives for Lake Erie to support development of ecosystem objectives. Lake Erie Lakewide Management Plan (LaMP) Technical Report Series. 65 pp.

PROFESSIONAL SEMINARS, WEBINARS, PRESENTATIONS & POSTERS (N = 520)

Scientific Seminars & Webinars (Invited; N = 31)

International (N = 5)

1. **Ludsin, S.A.** 2023. Meeting the challenge of implementing ecosystem-based management in the North American Great Lakes Basin. Center for Ecosystem Management Symposium, Inaugural Conference, University of Guelph, Guelph, ON 2023 (**keynote address**)
2. **Ludsin, S.A.** 2023. Understanding and anticipating fish community change in large, human-dominated lakes: lessons learned from North American Great Lakes. Great Lakes of the World Conference, Dar es Salaam, Tanzania (**keynote address**)
3. **Ludsin, S.A.** 2014. Fish recruitment in the Great Lakes: misconceptions & contributions to general recruitment theory. Great Lakes Institute for Environmental Research, University of Windsor, Windsor, ON.
4. **Ludsin, S.A.** 2010. Hypoxia alters species distributions and interactions: implications for food webs and fisheries. Dept. of Biology, University of Waterloo, Waterloo, ON.
5. **Ludsin, S.A.** 2001. Fish community structure and recruitment in Lake Erie: understanding past dynamics and future directions. Dept. of Biological Sciences, University of Windsor, Windsor, ON.

National (N = 26)

1. **Ludsin, S.A.** 2026. Lake Erie as a living lab: cross-scale responses to human-induced ecosystem change. Dept. of Biological Sciences, Kent State University, Kent, OH.
2. **Ludsin, S.A.** 2023. Meeting the challenge of implementing ecosystem-based management in the North American Great Lakes Basin. USGS Great Lakes Science Center, Ann Arbor, MI (webinar)
3. **Ludsin, S.A.** 2022. Past and anticipated impacts of human-driven environmental change on Lake Erie's fisheries and fish communities: a tale of change and tradeoffs. Dept. of Biology, Ball State University, Muncie, IN.
4. **Ludsin, S.A.** 2018. The future of harmful algal blooms and their risks to fisheries: insights from Lake Erie. Dept. of Evolution, Ecology, and Organismal Biology, OSU, Columbus.
5. **Ludsin, S.A.** 2018. Lake Erie's harmful algal bloom problem: future trends & health risks. College of Public Health, OSU, Columbus.
6. **Ludsin, S.A**. 2013. Regime-dependent regulation of Lake Erie's yellow perch population by resource pulses. Dept. of Fisheries and Wildlife, Michigan State University, East Lansing.
7. **Ludsin, S.A.** 2012. Regime-dependent regulation of Lake Erie's yellow perch population by resource pulses. Dept. of Zoology, Miami University, Oxford, OH.
8. **Ludsin, S.A**. 2012. Regime-dependent regulation of Lake Erie's yellow perch population by resource pulses. School of Environment and Natural Resources, OSU, Columbus.
9. **Ludsin, S.A.** 2012. Regime-dependent regulation of a fish population by resource pulses. Dept. of Biological Sciences, Bowling Green State University, Bowling Green, OH.
10. **Ludsin, S.A.** 2012. Regime-dependent regulation of a fish population by resource pulses. Dept. of Evolution, Ecology, and Organismal Biology, OSU, Columbus.
11. **Ludsin, S.A.** 2012. Regime-dependent regulation of a fish population by resource pulses. Dept. of Natural Resources and Cornell Student Subunit of the American Fisheries Society, Cornell University, Ithaca, NY.
12. **Ludsin, S.A.** 2011. Regime-dependent regulation of a fish population by resource pulses. Dept. of Forestry and Natural Resources, Purdue University, West Lafayette, IN.
13. **Ludsin, S.A.** 2011. Climate change impacts on Great Lakes fishes. OSU Climate Change Webinar Series, Columbus.
14. **Ludsin, S.A.** 2011. Climate change impacts on Fishes of the Great Lakes. Stone Laboratory Guest Lecture Series, Gibraltar Island, Put-in-Bay, OH.
15. **Ludsin, S.A.** 2008. Hypoxia alters species distributions and interactions: implications for food webs and fisheries. Dept. of Zoology, Southern Illinois University, Carbondale, IL.

16. **Ludsin, S.A.** 2008. Hypoxia alters species distributions and interactions: implications for food webs and fisheries. USGS Ohio Water Science Center, Columbus.
17. **Ludsin, S.A.** 2008. Hypoxia alters species distributions and interactions: implications for food webs and fisheries. Stone Laboratory Guest Lecture Series, Put-In-Bay, OH.
18. **Ludsin, S.A.** 2007. Hypoxia alters species distributions and interactions: implications for food webs and fisheries. Dept. of Earth, Ecological, and Environmental Sciences, University of Toledo, Toledo, OH.
19. **Ludsin, S.A.** 2007. Hypoxia alters species distributions and interactions: implications for food webs and fisheries. Dept. of Biology, University of Akron, Akron, OH.
20. **Ludsin, S.A.** 2007. Hypoxia alters species distributions and interactions: implications for food webs and fisheries. Dept. of EEOB, OSU, Columbus.
21. **Ludsin, S.A.** 2006. Ecological Consequences of Hypoxia in Coastal Systems: Case Studies of Lake Erie, Chesapeake Bay, and the Northern Gulf of Mexico. NOAA-GLERL, Ann Arbor, MI.
22. **Ludsin, S.A.** 2005. Exploration of fish community structure and recruitment in Lake Erie: understanding past dynamics and future directions. North Carolina State University, Raleigh.
23. **Ludsin, S.A.** 2003. The effect of oligotrophication on walleye and yellow perch population demographics in Lake Erie. Dept. of Biological Sciences, Bowling Green State University, Bowling Green, OH.
24. **Ludsin, S.A.** 2003. A changing Lake Erie fish community: unraveling the mechanisms involved. NOAA-GLERL, Ann Arbor, MI.
25. **Ludsin, S.A.** 1994. Understanding recruitment of young-of-year largemouth bass. Dept. of Fisheries and Allied Aquacultures, Auburn University, Auburn, AL.
26. **Ludsin, S.A.** 1994. A mechanistic understanding of first-year survival of largemouth bass. Aquatic Ecology Seminar Series, Columbus.

Scientific & Professional Society Meetings (Invited; N = 29)

International (N = 8)

1. Farmer, T.M., E.A. Marschall, K. Dabrowski, and **S.A. Ludsin**. 2014. Climate warming negatively affects Lake Erie yellow perch reproductive success and recruitment. International Association for Great Lakes Research, Hamilton, ON.
2. Fraker, M.E., K.M. DeVanna, K.L. Pangle, Y. Zhao, and **S.A. Ludsin**. 2014. Biophysical drivers of walleye recruitment variation in Lake Erie. International Association for Great Lakes Research, Hamilton, ON.
3. May, C.J., E.A. Marschall, M. Kulasa, E.F. Roseman, W.W. Taylor, and **S.A. Ludsin**. 2014. Larval walleye recruitment and zooplankton availability: testing the match-mismatch hypothesis in Lake Erie. International Association for Great Lakes Research, Hamilton, ON.
4. Schmit, C.L., T.M. Farmer, E.A. Marschall, K. Dabrowski, and **S.A. Ludsin**. 2014. Climate change effects on Lake Erie yellow perch spawning phenology. International Association for Great Lakes Research, Hamilton, ON.
5. **Ludsin, S.A**., T.O. Höök, D.K. Rucinski, J.V. DePinto, and D. Scavia. 2008. Historical exploration of hypoxia effects on fish recruitment and production in Lake Erie. International Association for Great Lakes Research, Peterborough, ON.
6. Reichert, J.M., B.J. Fryer, **S.A. Ludsin**, T.B. Johnson, J.T. Tyson, T.H. Johengen, and N. Hawley. 2008. River plume effects on yellow perch growth, survival, and recruitment in Lake Erie. International Association for Great Lakes Research, Peterborough, ON.
7. Fryer, B.J., J. Gagnon, S. Melancon, Z. Yang, and **S.A. Ludsin.** 2004. Special capabilities of LA-ICPMS in environmental research. EnviroAnalysis 2004, Toronto, ON.
8. Sale, P.F., and **S.A. Ludsin**. 2001. The extent and spatial scale of connectivity among reef fish populations: implications for marine protected areas designated for fisheries enhancement. Gulf and Caribbean Fisheries Institute, Providenciales, Turks and Caicos Islands, BWI.

National (N = 21)

1. **Ludsin, S.A.** 2026. Sink or swim together: Why Great Lakes management needs a bigger boat. American Fisheries Society, Columbus. (Plenary Address)
2. Steele, Z.T., and **S.A. Ludsin**. 2026. A Great Lakes data-sharing platform to facilitate ecosystem-based management: Needs and challenges. American Fisheries Society, Columbus.
3. Williams, D., **S.A. Ludsin**, P. Joseph, T. Kidd, J. Olesik, and W.M. Shulack. 2026. Evaluating changes in Walleye recruitment in Lake Erie following dam removal. American Fisheries Society, Columbus.
4. **Ludsin, S.A.**, D.A. Dippold, S.C. Keitzer, N. Aloysius1, Y. Zhao, M.E. Fraker, J.F. Martin, and D. Glover 2024. Habitat quality as a driver of Lake Erie walleye population dynamics: past, present & future. Great Lakes Fishery Commission – Board of Technical Experts Meeting, Ann Arbor.
5. **Ludsin, S.A.**, N. Aloysius, S.C. Keitzer, D.A. Dippold, M.E. Fraker, J.F. Martin, S.P. Sowa, G. Annis, J. Arnold, A.M. Froehlich, M.E. Herbert, M.V. Johnson, M.L. Norfleet, A.M. Sasson, M.J. White, and H. Yen. 2019. Modeling physical, chemical, and biological responses to agricultural conservation in a changing climate: insights from Lake Erie. Ecological Society of America, Louisville, KY.
6. **Ludsin, S.**, K. Pangle, L. Carreon-Martinez, A. Drelich, B. Fryer, D. Heath, T. Johnson, J. Reichert, J. Tyson, and K. Wellband. 2017. Does variation in larval growth rate affect the recruitment of freshwater fishes? A case study with Lake Erie Yellow Perch. Larval Fish Conference, American Fisheries Society, Austin, TX.
7. Farmer, T.F., E.A. Marschall, K. Dabrowski, and **S.A. Ludsin**. 2015. Short, warm winters negatively affect Lake Erie yellow perch reproduction and recruitment. American Fisheries Society, Portland, OR.
8. May, C.J., E.A. Marschall, E.F. Roseman, W.W. Taylor, and **S.A. Ludsin**. 2015. Prey availability during the larval period regulates recruitment: evidence for the match-mismatch hypothesis. American Fisheries Society, Portland, OR.
9. DeVanna, K.M., R.E.H Smith, and **S.A. Ludsin**. 2013. Understanding fish recruitment in large lakes: the importance of physical processes. International Association for Great Lakes Research, West Lafayette, IN.
10. Filbrun, J.E., D.A. Culver, and **S.A. Ludsin**. 2013. Effects of diet and growth variation on juvenile fish production in aquaculture ponds. West Virginia and Ohio Chapters of the American Fisheries Society, Huntington, WV.
11. Fraker, M.E., K.-Y. Chen, K.M. DeVanna, E.A. Marschall, C.J. May, **S.A. Ludsin**, E.J. Anderson, J.J. Davis, J.G. Miner, M.R. DuFour, C.M. Mayer, J.J. Pritt, K.L. Pangle, E.F. Roseman, J.T. Tyson, and Y. Zhao. 2013. Coupled physical-biological modeling as a tool to enhance our understanding of the recruitment process in mixed-stock fisheries: an example with Lake Erie walleye. International Association for Great Lakes Research, West Lafayette, IN.
12. **Ludsin, S.A.**, E.J. Anderson, R. Brodnik, K.M. DeVanna, L. Carreon-Martinez, B.J. Fryer, D.D. Heath, J.M. Reichert, and M.E. Fraker. 2013. Particle backtracking as a tool to improve stock discrimination capabilities in mixed populations: an example with Lake Erie yellow perch. International Association for Great Lakes Research, West Lafayette, IN.
13. May, C.J., **S.A. Ludsin**, and E.A. Marschall. 2013. Does available growth environment predict walleye recruitment in western Lake Erie? International Association for Great Lakes Research, West Lafayette, IN.
14. Pangle, K.L., P.J. Hurtado, Y. Lou, E.A. Marschall, D.K. Rucinski, D. Beletsky, and **S.A. Ludsin**. 2013. Do hypoxia- and temperature-induced changes in habitat use affect fish abundance and quality? International Association for Great Lakes Research, West Lafayette, IN.

15. DeVanna, K.M., R. Smith, and **S.A. Ludsin**. 2012. Physical-biological coupling and the challenge of understanding fish recruitment in large lakes. American Fisheries Society, St. Paul, MN.
16. Roberts, J.J., T.O. Höök, **S.A. Ludsin**, S.A. Pothoven, and H.A. Vanderploeg. 2009. Implications of hypoxia for yellow perch habitat quality in Lake Erie's central basin: a spatially-explicit bioenergetics modeling approach. Michigan Chapter of the American Fisheries Society meeting, Monroe, MI. *Best Student Paper Award*
17. Fryer, B., S. Melancon, Z. Yang, J. Gagnon, and **S. Ludsin.** 2008. Microgeochemical tools and approaches to understanding and solving fisheries issues. Midwest Fish and Wildlife Conference, Columbus.
18. Reichert, J., A. Drelich, K. Pangle, K. Mabrey, B. Fryer, T. Johnson, J. Tyson, and **S. Ludsin**. 2008. Yellow perch recruitment in western Lake Erie: the importance of larval habitat use and growth. Midwest Fish and Wildlife Conference, Columbus.
19. **Ludsin, S.A.**, M.W. Kershner, K.A. Blocksom, R.A. Stein, R.L. Knight, and K.A. Kayle. 1999. Exploring fish communities of western and central Lake Erie, 1969-1996: understanding past dynamics and future directions. Ohio Fish and Wildlife Conference, Columbus.
20. **Ludsin, S.A.**, R.A. Stein, and K.A. Kayle. 1999. Percid growth and year-class formation in Lake Erie: a historical perspective. International Association for Great Lakes Research, Cleveland, OH.
21. Colavecchia, M., S. George, R. Knight, **S. Ludsin**, and P. A. Ryan. 1999. The Lake Erie system model: a fuzzy cognitive map to support development of ecosystem objectives. International Association for Great Lakes Research, Cleveland, OH.

Scientific Conferences & Workshops (Invited; N = 28)

International (N = 7)

1. **Ludsin, S.A.**, C.K. Minns, R.R. Budnik, and M. Munawar. 2022. How have contingencies associated with scientific discipline, geographic location, and ecosystem type influenced the successful implementation of the Ecosystem Approach globally? Ecosystem Approach Conference, Windsor, ON.
2. Takasuka, A. D. Robert, J. Shoji, P. Sirois, L. Fortier, Y. Oozeki, P. Pepin, A. Folkvord, M.A. Peck, I.A. Catalán, A.G. García, R.D. Brodeur, S. Sponaugle, E.K. D'Alessandro, **S.A. Ludsin**, K.B. Huebert, M. Hufnagl, J.F. Dower, G. Plaza, P.M. Ayón, N. Tojo, M. Joh, S. Ito, Y. Tanaka, M. Takahashi, F. Juanes, E.Y. Campbell, P. Reglero, N. Yasue, S. Watari, and M. Nyuji. 2017. Reaching consensus on the growth–survival paradigm in early life stages of fish. ICES/PICES Symposium on Drivers of dynamics of small pelagic fish resources, Victoria, B.C.
3. **Ludsin, S.A.**, C.J. May, K.L. Pangle, and E.A. Marschall. 2015. Does fast early life growth confer a recruitment advantage in freshwater fish populations? Growth–Survival Paradigm in Early Life Stages of Fish: Controversy, Synthesis, and Multidisciplinary Approach Symposium. Yokohama, Japan.
4. **Ludsin, S.A.**, K.M. DeVanna, and R.E.H. Smith. 2013. Physical-biological coupling and the challenge of understanding fish recruitment in the Great Lakes. Lake Erie Millennium Network, 6th Biennial Conference, Windsor, ON.
5. Conroy, J.D., **S.A. Ludsin**, K. Kayle, J.T. Tyson, R.L. Knight, and D.A. Culver. 2010. Fish community structure in Lake Erie: continued rehabilitation or a return to degradation? Lake Erie Millennium Network, 6th Biennial Conference, Windsor, ON
6. **Ludsin, S.A.**, S.B. Brandt, N. Hawley, B. J. Eadie, M.B. Lansing, and T.H. Johengen. 2006. Introduction to the International Field Years on Lake Erie (IFYLE) Program. Lake Erie Millennium Network Bi-annual Conference, Windsor, ON
7. **Ludsin, S.A.**,T.O. Höök, T.F. Nalepa, S.D. Peacor, S.A. Pothoven, S.A. Ruberg, H.A. Vanderploeg, J.J. Roberts, J.F. Cavaletto, G.A. Lang, and C. Rae. 2006. Influence of hypoxia on upper trophic levels of central Lake Erie's food web: preliminary observations. Lake Erie Millennium Network Bi-annual Conference, Windsor, ON

National (N = 21)

1. Keitzer, C., M. Fraker, N. Aloysius, J. Martin, D. Dippold, H. Yen, J. Arnold, P. Daggupati, M. Johnson, D. Robertso, S. Sowa, M. White, and **S. Ludsin**. 2025. Agricultural conservation practices could help offset climate change impacts on cyanobacterial harmful algal blooms in Lake Erie. Integration and Application Network, University of Maryland Center for Environmental Science, Annapolis, MD.
2. Fraker, M., J. Sinclair, K. Frank, J. Hood, and **S. Ludsin**. 2022. Integrated Ecosystem Assessment of Lake Erie. "Defining Baseline Ecosystem Conditions in Dynamic Great Lakes Ecosystems" summit. Ann Arbor, MI.
3. Fraker, M., J. Sinclair, K. Frank, J. Hood, and **S. Ludsin**. 2022. Integrated Ecosystem Assessment of Lake Erie. "Investigating Food Webs: State of Knowledge and Investigative Approaches" workshop. Ithaca, NY. (virtual)
4. **Ludsin, S.A.**, P. Collingsworth, W. Currie, J. Hoffman, J. Watkins, D. Bolgrien, K. Bowen, A. Cotter, J. Hood, M. Manubolu, and L. Rudstam. 2021. Overview of the 2019 CSMI program designed to understand harmful algal bloom & hypoxia impacts on Lake Erie's webs. 2019 Lake Erie Data Sharing Workshop. (virtual)
5. Bobay, L., L.Z. Almeida, E. Marschall, and **S. Ludsin**. 2020. To what degree do preferred prey abundance and temperature influence growth rates of larval Yellow Perch in Lake Erie? American Fisheries Society, Columbus.
6. Dippold, D.A., L. Boegman, Q. Wang, and **S. Ludsin**. 2020. Building (more) useful predictive environment-recruitment models: a case study with Lake Erie Walleye. American Fisheries Society, Columbus.
7. Lee, S. X. Jiang, M. Manubolu, **S.A. Ludsin**, J.F. Martin, and J. Lee. 2016. Microcystin accumulation in vegetables and soils. Harmful Algal Blooms: State of the Science Conference, Toledo, OH.
8. **Ludsin, S.A.**, J. Lee, S. Lee, M. Manubolu, K. Riedl, J.F. Martin, and L. Collart. 2016. Fish flesh and fresh produce as sources of microcystin exposure to humans. Harmful Algal Blooms: State of the Science Conference, Toledo, OH.
9. Sowa, S., S.C. Keitzer, **S.A. Ludsin**, A. Sasson, M. O'Brien, C. Volmer-Sanders, M. Herbert, G. Annis, A. Froelich, J. Arnold, M. White, H. Yen, P. Daggaputi, C. Winslow, J. Atwood, M. Vaughn-Johnson, C. Rewa, and Dale Robertson. 2016. Thinking outside the lake: How can management efforts benefit western Lake Erie and its tributaries? Harmful Algal Blooms: State of the Science Conference, Toledo, OH.
10. **Ludsin, S.A.,** and K.L. Pangle. 2011. Regime-dependent physical forcing of yellow perch recruitment in Lake Erie. Physical-biological coupling and fish recruitment in large lakes: state of knowledge and opportunities for progress workshop, Romulus, MI.
11. Smith, R., and **S. Ludsin**. 2011. Overview of GLFC research theme: physical processes and fish recruitment in large lakes. Physical-biological coupling and fish recruitment in large lakes: state of knowledge and opportunities for progress workshop, Romulus, MI.
12. Tyson, J.T., and **S.A. Ludsin**. 2011. Lake Erie fisheries management needs: using physical-biological coupling to move towards place-based management. Physical-biological coupling and fish recruitment in large lakes: state of knowledge and opportunities for progress workshop, Romulus, MI.
13. **Ludsin, S.A.** 2009. Hypoxia in Lake Erie: implications for food webs and fisheries. The Great Lakes: Adapting to a Wave of Change Conference, Michigan State University, East Lansing
14. **Ludsin, S.A.**, and T.E. Croley II. 2008. Complexities of forecasting climate change effects on Great Lakes fisheries: an example with Lake Erie yellow perch. Climate Change in the Great Lakes Region Conference, Michigan State University, East Lansing, MI
15. Brandt, S.B., M. Costantini, **S. Ludsin**, D.M. Mason, and W.C. Boicourt. 2007. Influence of hypoxia on fish growth rate potential in Chesapeake Bay. Ecological Impacts of Hypoxia on Living Resources Workshop Symposium, Bay St. Louis, MS.

16. Höök, T., **S. Ludsin**, S. Pothoven, J. Roberts, T. Nalepa, H. Vanderploeg, S. Ruberg, and S. Brandt. 2007. Influence of hypoxia on the ecology of zooplanktivorous and benthivorous fishes in Lake Erie's central basin. Ecological Impacts of Hypoxia on Living Resources Workshop Symposium, Bay St. Louis, MS.
17. **Ludsin, S.**, W. Boicourt, S. Brandt, K. Hozyash, D. Kimmel, D. Mason, C. Rae, M. Roman, H. Zhang, and X. Zhang. 2007. Indirect effects of coastal hypoxia on planktivore habitat: implications for pelagic food webs and fisheries. Ecological Impacts of Hypoxia on Living Resources Workshop Symposium, Bay St. Louis, MS.
18. **Ludsin, S.A.** 2007. Ecological effects of hypoxia: a comparison of the Baltic and Great Lakes regions. The North American Great lakes: comparison with the Baltic Sea, Workshop Series-I. University of Michigan, Ann Arbor
19. **Ludsin, S.A.** 2007. Lake Erie hypoxia: history and management response. Ecological Impacts of Hypoxia on Living Resources Workshop Symposium, Bay St. Louis, MS.
20. Vanderploeg, H, **S. Ludsin**, S. Pothoven, T. Höök, J. Roberts, S. Ruberg, J. Cavaletto, J. Liebig, G. Lang, and S. Brandt. 2007. Influence of hypoxia on the distribution, behavior, and foraging of zooplankton and planktivorous fish in central Lake Erie: field observations and future research directions. Ecological Impacts of Hypoxia on Living Resources Workshop Symposium, Bay St. Louis, MS.
21. **Ludsin, S.A.** 2005. Potential linkages between tributaries and fishery production in the Great Lakes. Environmental Objectives Workshop, Great Lakes Fishery Commission, Romulus, MI

Regional (Great Lakes) Management Meetings (Invited; N = 24)

International (N = 8)

1. **Ludsin, S.A.**, Z.T. Steele, and A. Muir. 2026. Janus: A data-sharing infrastructure to benefit research and management in the Great Lakes. Great Lakes Fishery Commission, Windsor, ON. (Keynote Address)
2. Steele, Z.T., **S.A. Ludsin**, and A. Muir. 2026. Project Janus: A data-sharing architecture to benefit research and management in the Great Lakes. Council of Lake Committees, Windsor, ON.
3. **Ludsin, S.A.**, P. Collingsworth, W. Currie, J. Hoffman, J. Watkins, D. Bolgrien, K. Bowen, A. Cotter, J. Hood, M. Manubolu, and L. Rudstam. 2022. HAB & hypoxia impacts on Lake Erie's food webs and fisheries. Annex 10 Working Group Meeting, U.S. Environmental Protection Agency and Environment Canada. (virtual)
4. Euclide, P.T., **S.A. Ludsin**, E.A. Marschall, K.Y. Chen, J. Robinson, M. Faust, T.M. MacDougall., C. Wilson, and W. Larson. 2021. Mixed stock analysis of east basin Walleye. Lake Erie Committee annual meeting, Great Lakes Fishery Commission. (virtual)
5. Chen, K.-Y., E.A. Marschall, M. Sovic, H.L. Gibbs, and **S.A. Ludsin**. 2016. Lake Erie walleye stock discrimination methods and applications. Lake Erie Committee annual meeting, Great Lakes Fishery Commission, Niagara Falls, ON.
6. **Ludsin, S.A.** 2007. Statolith microchemistry as a tool for identifying natal origins of Great Lakes sea lamprey. Great Lakes Fishery Commission annual meeting, Sault Ste. Marie, ON
7. **Ludsin, S.A.** 2005. Exploration of the existence of natural reproduction in Lake Erie lake trout using otolith microchemistry. Lake Erie Committee annual meeting, Great Lakes Fishery Commission, Niagara Falls, ON
8. **Ludsin, S.A.** 2005. Introduction to the International Field Years on Lake Erie (IFYLE) Program. Lake Erie Committee annual meeting, Great Lakes Fishery Commission, Niagara Falls, ON

National (N = 16)

1. Foley, A.D. *, E. Duskey, L.A. Bruckerhoff, J.M. Hood, P. Jenkins, and **S.A. Ludsin**. 2025. Understanding central Lake Erie's Yellow Perch recruitment decline. Walleye Technical Committee Meeting, Beaver Island, MI.
2. **Ludsin, S.A.** 2019. The future of harmful algal blooms and their risks to fisheries and human health: Insights from Lake Erie. The Nature Conservancy, Columbus (webinar).
3. **Ludsin, S.A.** 2018. Harmful algal blooms: potential impacts on fish & human health. Great Lake Fishery Commission - Fish Health Committee, Cleveland, OH.
4. **Ludsin, S.A.**, M. Manubolu, K.M. Riedl, J. Lee, J.F. Martin, and Z.X. Kua. 2017. Are fish harvested in Lake Erie during the harmful algal bloom season safe to eat? Webinar: Forecast for Harmful Algal Blooms in Lake Erie in 2017. Ohio Sea Grant College Program & Stone Laboratory, Put-in-Bay, OH.
5. **Ludsin, S.A.**, S.C. Keitzer, S. Sowa, A. Sasson, M. O'Brien, C. Volmer-Sanders, M. Herbert, G. Annis, A. Froelich, J. Arnold, M. White, H. Yen, P. Daggaputi, C. Winslow, J. Atwood, M. Vaughn-Johnson, C. Rewa, and Dale Robertson. 2016. Thinking outside the Lake: How can management efforts benefit western Lake Erie and its tributaries? Western Lake Erie Basin Partnership meeting, Port Clinton, OH.
6. **Ludsin, S.A.**, K.P. Winslow, R.D. Briland, and N. Aloysius. 2015. Do recent increases in cyanobacteria pose a real threat to Lake Erie's fisheries? Lake Erie Committee/State of the Lake Ecosystem Conference (SOLEC), Great Lakes Fishery Commission. Ypsilanti, MI.
7. **Ludsin, S.A.** 2013. Lake Erie yellow perch recruitment mechanisms: a never-ending story of change. Lake Erie Committee annual meeting, Great Lakes Fishery Commission, Niagara Falls, NY.
8. **Ludsin, S.A.** 2013. Lake Erie yellow perch recruitment mechanisms: insights to benefit management. Lake Erie Percid Management Advisory Group meeting, Erie, PA.
9. **Ludsin, S.A.** 2012. River discharge as a predictor of Lake Erie yellow perch recruitment. Great Lakes Fishery Commission annual meeting, Buffalo, NY
10. Pangle, K.L. B.J., Fryer, J.T., Tyson, Y. Zhao, and **S.A. Ludsin**. 2011. Innovative approaches to understanding percid recruitment in western Lake Erie. Lake Erie Committee annual meeting, Great Lakes Fishery Commission, Ypsilanti, MI.
11. **Ludsin, S.A.** 2009. Exploration of hypoxia's effects on Lake Erie fisheries. Lake Erie Committee/State of the Lake Ecosystem Conference (SOLEC), Great Lakes Fishery Commission, Ypsilanti, MI
12. Howe, E. A., J.E. Marsden, **S.A. Ludsin**, C.H. Hand, and B.J. Fryer. 2006. Tributary contributions to the parasitic and spawning adult population of sea lamprey (*Petromyzon marinus*) in Lake Champlain using elemental signatures. Technical Advisory Committee of the Lake Champlain Basin Program.
13. **Ludsin, S.A.** 2004. Exploration of linkages between oligotrophication and percid dynamics in Lake Erie. Lake Erie Committee/State of the Lake Ecosystem Conference (SOLEC), Great Lakes Fishery Commission. Grand Island, NY
14. **Ludsin, S.A**., M.W. Kershner, R.L. Knight, and R.A. Stein. 1999. Exploring fish communities of western and central Lake Erie, 1969-1996: reduced productivity drives fish community rehabilitation. Lake Erie Committee annual meeting, Great Lakes Fishery Commission, Niagara Falls, NY
15. **Ludsin, S.A**., B. Dixon, B.J. Fryer, K. Hedges, T.B. Johnson, M. Latimer, and P.F. Sale. 2002. Innovative techniques for stock discrimination and production estimation of Great Lakes percid fisheries. Lake Erie Committee annual meeting, Great Lakes Fishery Commission, Buffalo, NY
16. **Ludsin, S.A**., M.W. Kershner, R.A. Stein, R.L. Knight, and K.A. Kayle. 1997. Recent shifts in fish community structure in Lake Erie: mechanisms of change. Lake Erie Committee annual meeting, Great Lakes Fishery Commission, Niagara Falls, NY

Local (Ohio) Management Meetings (Invited; N =114)

1. Bentley, J., S. Tyszko, J. Conroy, and **S. Ludsin**. 2025. Understanding the ecological niche of stocked Blue Catfish and sport fishes in Ohio reservoirs: Implications for management. Lake Erie & Inland Waters Research Review, Columbus.
2. Brambilla, L., and **S.A. Ludsin**. 2025. Early larval growth as a predictor of recruitment variation in Lake Erie Yellow Perch. Lake Erie & Inland Waters Annual Research Review, Columbus. (poster)
3. Foley, A.D., M.G. Sovic, M.T. Kato, and **S.A. Ludsin**. 2025. Investigating the Effects of predation by invasive and native piscivores on Yellow Perch in central Lake Erie. Lake Erie & Inland Waters Research Review, Columbus.
4. Geller, K.B. Wilson, and **S.A. Ludsin**. 2025. Foraging Habits of Yellow Perch in Western Lake Erie in the Presence of Bythotrephes longimanus. Lake Erie & Inland Waters Annual Research Review, Columbus. (poster)
5. Kato, M.T., D.A. Williams, and **S.A. Ludsin**. 2025. Interspecific comparison of larval fish otolith microchemistry between two Lake Erie Spawning tributaries. Lake Erie & Inland Waters Annual Research Review, Columbus. (poster)
6. Williams, D.A., M.D. Faust, R. Kraus, and **S.A. Ludsin**. 2025. Impacts of dam removal on spawning walleye movement in the Sandusky River. Lake Erie & Inland Waters Research Review, Columbus.
7. Wilson, K.B., Z.T. Steele, H. Luken, J.T. Bruskotter, and **S.A. Ludsin**. 2025. First bites: Early insights from a Yellow Perch recreational angler survey in Western Lake Erie. Lake Erie & Inland Waters Research Review, Columbus.
8. **Ludsin, S.A.** 2024. Managing fisheries in a changing ecosystem: Lessons learned from 30 years of Lake Erie research. Ohio Chapter of the American Fisheries Society, Mt. Sterling, OH. **(plenary)**
9. **Ludsin, S.A.** 2024. The wicked problem of managing water quality and multiple fisheries. Lake Erie Charter Boat Captains Meeting and Ohio Sea Grant Media Day, Gibraltar Island, OH.
10. Wilson, K., L. Bruckerhoff1, E. Duskey, J. Hood, H. Luken, Z. Slagle, and **S. Ludsin**. 2024. Understanding long-term angling success for Yellow Perch in western Lake Erie. Lake Erie & Inland Waters Research Review, Columbus.
11. Foley, A., E. Duskey, L. Bruckerhoff, J. Hood, and **S. Ludsin**. 2024. Understanding mechanisms driving Yellow Perch recruitment in central Lake Erie. Lake Erie & Inland Waters Research Review, Columbus.
12. Tyszko S., J. Pritt, J. Kelly, M. Figueroa, R. Zweifel, **S. Ludsin**, and J. Conroy. 2024. Comparing recruitment of Channel Catfish stocked as fingerlings and yearlings. Lake Erie & Inland Waters Research Review, Columbus.
13. Woodruff, M. J. Hood, S. Newell, L. Vanderbilt, K. Frank, and **S. Ludsin**. 2024. Using stakeholder collaboration to support ecosystem-based fisheries management in Lake Erie. Lake Erie & Inland Waters Research Review, Columbus.
14. Bentley, J., and **S. Ludsin**. 2024. Niche size and overlap of reservoir sport fish in the presence and absence of Blue Catfish. Lake Erie & Inland Waters Research Review, Columbus. Lake Erie & Inland Waters Research Review, Columbus.
15. Bentley, J., and **S. Ludsin**. 2023. Feeding ecology of Blue Catfish and other top predators in central Ohio reservoirs. Lake Erie & Inland Waters Research Review, Columbus.
16. Houpt, O., K. Wilson, and **S. Ludsin**. 2023. Understanding the impact of invasive *Bythotrephes longimanus* on Yellow Perch angling success in western Lake Erie. Lake Erie & Inland Waters Research Review, Columbus.
17. Manubolu, M., K. Pathakoti, K. Riedl C. Lauber, L. Mashburn Warren, M. Watanabe-Chailland, L. Romick-Rosendale, and **S. Ludsin**. 2023. Microcystin effects on juvenile Yellow Perch stress physiology, liver metabolomics, and gut microbial composition. Lake Erie & Inland Waters Research Review, Columbus.

18. Wilson, K., L. Bruckerhoff, Z. Slagle, H. Luken, and **S. Ludsin**. 2023. Preliminary insights into factors that drive Yellow Perch angling success in western Lake Erie. Lake Erie & Inland Waters Research Review, Columbus.
19. Wu, Y., B. Sohngen, and **S. Ludsin**. 2023. Estimating loss of recreational fishing trips from harmful algal blooms in Lake Erie. Lake Erie & Inland Waters Research Review, Columbus.
20. **Ludsin, S.A.**, J. Sinclair, M. Fraker, J. Hood, and E. Reavie. 2022. The wicked problem of managing multiple fishery and water quality services: insights from a century of change in Lake Erie. Lake Erie & Inland Waters Research Review, Columbus.
21. Budnik, R., **S. Ludsin**, K. Frank, L. Collis, M. Fraker, L. Mason, S. Pothoven, A. Muir, and A. Scofield. 2021. Feasibility of implementing an integrated long-term database to bolster ecosystem-based management in the Great Lakes basin. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus.
22. Almeida, Z., **S. Ludsin**, and E. Marschall, J. Grayson, and K. Dabrowski. 2020. Evidence of experiential legacies of early-life diet quality on juvenile Walleye. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus. (virtual)
23. Becher, **S. Ludsin**, S. Tyszko, and J. Olesik. 2020. Quantifying contributions of stocked Channel Catfish in reservoir populations using otolith microchemistry. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus. (virtual)
24. Blawut, B., B. Wolfe, C. Moraes, C. Premanandan, G. Schuenemann, M.C. da Silva, R. Zweifel, K. Kayle, D. Sweet, B. Kitchen, M. Pugh, and **S. Ludsin**. 2020. Assisted reproduction technique effects on sperm physiology of the freshwater fish, Sauger (*Sander canadensis*). Lake Erie & Inland Waters Annual Research Review, OSU, Columbus. (virtual)
25. Budnik, R., **S. Ludsin**, D. O'Donnell, J. Hood, E. Marschall, C. May, and E. Roseman. 2020. Zooplankton quantity and quality during the larval period regulates recruitment of Lake Erie walleye. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus. (virtual)
26. Dippold, D., **S. Ludsin**, Q. Wang, and L. Boegman. 2020. Modeling historical trends in larval stage duration of Lake Erie walleye with implications for future climate change. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus. (virtual)
27. Fraker, M., J. Sinclair, J. Hood, **S. Ludsin**, and K. Frank. 2020. Contrasting states of the Lake Erie ecosystem and implications for ecosystem-based management. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus. (virtual)
28. **Ludsin, S.A.**, and M. Manubolu. 2020. Physiological, growth and survival response of age-0 yellow perch and walleye to toxic cyanobacteria. Ohio Department Director's Meeting, Ohio Sea Grant College Program. (virtual)
29. **Ludsin, S.A.**, M. Manubolu, and K. Riedl. 2020. Development of the MMPB method for quantifying total microcystins in water edible Lake Erie fish tissues. Ohio Department Director's Meeting, Ohio Sea Grant College Program. (virtual)
30. Sinclair, J., J. Hood, **S. Ludsin**, M. Fraker. and K. Frank. 2020. Functional traits reveal the predominant anthropogenic drivers of long-term change across a large lake ecosystem. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus. (virtual)
31. Almeida, Z., **S. Ludsin**, E. Marschall, C. May, D. Glover, and E. Roseman. 2019. Larval phenology and performance as potential drivers of Lake Erie walleye recruitment. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus.
32. Becher, C., **S. Ludsin**, and S. Tyszko. 2019. Examining post-stocking mortality of fingerling channel catfish. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus.
33. Blawut, B., M.C. da Silva, B. Wolfe, E. Ranney, D. Sweet, B. Kitchen, K. Kayle, R. Zweifel, and **S. Ludsin**. 2019. Update on Sauger (Sander canadensis) spermatozoa cryopreservation protocol development. Lake Erie & Inland Waters Research Review, Columbus.
34. Bobay, L., Z. Almeida, E. Marschall, and **S. Ludsin**. 2019. Toward understanding climate effects on Lake Erie yellow perch recruitment: how do the diets of larvae vary among years? Lake Erie & Inland Waters Annual Research Review, OSU, Columbus.

35. Dillon, R., **S. Ludsin**, and J. Conroy. 2019. Food web interactions among planktivores in north-temperate, hypoxic reservoirs. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus.
36. Dippold, D., and **S. Ludsin**, Q. Wang, and L. Boegman. 2019. Building (more) useful environment-recruitment models. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus.
37. Johnson, G.R., R.D. Zweifel, J.D. Conroy, R.A. Dillon, and **S.A. Ludsin**. 2019. Determining a dorsal-aspect target strength to total length relationship for gizzard shad. Lake Erie & Inland Waters Research Review, Columbus.
38. **Ludsin, S.A.**, P.E. Euclide, W.A. Larson, K.-Y. Chen, J.M. Robinson, T.M. MacDougall, M.D. Faust, C.C. Wilson, M.G. Sovic, and E.A. Marschall. 2019. Stock structure and contribution of west and east basin walleye to recreational and commercial fisheries in Lake Erie. Ohio Sea Grant Charter Captains Workshop, Gibraltar Island, OH.
39. Marcek, B.J., **S.A. Ludsin**, E.A. Marschall, T.M. Farmer, and G. Petris. 2019. Shifting drivers of Lake Erie Yellow Perch recruitment. Lake Erie & Inland Waters Research Review, Columbus.
40. Ulin, K., J. Dillon, K. Jablonski, L.Z. Almeida, E. Marschall, and **S. Ludsin**. 2019. Neuston, round, and bongo - Oh my! Comparing ichthyoplankton catches among different nets. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus. (poster)
41. Almeida, L.Z., M.D. Faust, **S.A. Ludsin**, and E.A. Marschall. 2018. Lake Erie walleye growth rates in relation to past and current environments. Great Lakes Fishery Commission, Lake Erie Walleye Task Group Meeting. Old Woman Creek National Estuarine Research Reserve. (invited talk)
42. Almeida, Z, E. Marschall, **S. Ludsin**, and M. Faust. 2018. Evaluating the influence of past and current environments on Lake Erie walleye growth rates. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus.
43. Almeida, Z, E. Marschall, **S. Ludsin**, and M. Faust. 2018. Lake Erie walleye growth rates in relation to past and current environments. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus.
44. Bade, A., **S. Ludsin**, B. Schmidt, and M. DuFour. 2018. Factors influencing walleye catch rates in Lake Erie, 1989-2017. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus.
45. Bade, A., **S. Ludsin**, T. Binder, M. Faust, and C. Vandergoot. 2018. Spawning phenology of Lake Erie walleye. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus.
46. Becher, **S. Ludsin**, J. Olesik, and S. Tyszko. 2018. Using otolith microchemistry to delineate hatchery-reared and wild-produced channel catfish in Ohio reservoirs. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus.
47. Becher, **S. Ludsin**, S. Tyszko, and J. Conroy. 2018. Quantifying post-stocking predation mortality by largemouth bass on fingerling channel catfish. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus.
48. Blawut, B., C. Dias de Moraes, M. Coutinho da Silva, **S. Ludsin**, D. Sweet, B. Kitchen, K. Kayle, R. Zweifel, and B. Wolfe. 2018. Testicular harvest as a tool to enhance milt collection in sauger (*Sander canadensis*). Lake Erie & Inland Waters Annual Research Review, OSU, Columbus.
49. Blawut, B., C. Dias de Moraes, M. Coutinho da Silva, **S. Ludsin**, D. Sweet, B. Kitchen, K. Kayle, R. Zweifel, and B. Wolfe. 2018. Cryopreservation induced changes to the sauger (*Sander canadensis*) spermatozoa glycocalyx and its implications for fertilization. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus.
50. Bobay, L., Z. Almeida, E. Marschall, and **S. Ludsin**. 2018. Toward examining climate effects on yellow perch recruitment: How do Lake Erie larval yellow perch diets vary within a spring? Lake Erie & Inland Waters Annual Research Review, OSU, Columbus. (poster)

51. Brown, T., D. Dippold, Z. Almeida, E. Marschall, and **S. Ludsin**. 2018. Evaluating basin-specific early growth rates as a Lake Erie walleye stock discrimination tool. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus. (poster)
52. Dillon, R., **S. Ludsin**, and J. Conroy. 2018. Hydroacoustic estimates of prey-fish abundance change with various analytical decisions. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus.
53. Dillon, R., **S. Ludsin**, and J. Conroy. 2018. Hypoxia alters spatial overlap of primary and secondary consumers in the pelagic food web of reservoirs. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus.
54. Dippold, D., **S. Ludsin**, M. Fraker, N. Aloysius, H. Yen, C. Keitzer, J. Arnold, M. White, P. Daggupati, J. Martin, M. Johnson, D. Robertson, A. Sasson, and S. Sowa. 2018. Forecasting the effects of climate change and agricultural conservation practice scenarios on Lake Erie fish recruitment. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus.
55. Huddleston, A., E. Marschall, J. Hood, **S. Ludsin**, and C. May. 2018. Response of larval walleye prey communities to winter and spring temperatures. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus.
56. Manubolu, M, **S. Ludsin**, K. Riedl, and J. Lee. 2018. Development and assessment of methods for quantifying total microcystins in fish tissues. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus.
57. Ulin, K., Z. Almeida, T. Brown, D. Dippold, **S. Ludsin**, and E. Marschall. 2018. Validating daily otolith increment deposition in aquarium-reared juvenile walleye, *Sander vitreus*. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus. (poster)
58. Almeida, Z., A. Huddleston, **S. Ludsin**, J. Hood, and E. Marschall. 2017. Assessing lower food web changes in Lake Erie's western basin and consequences for walleye. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus. (poster)
59. Aloysius, N.R., J.F. Martin, and **S.A. Ludsin**. 2017. Changing characteristics of land surface precipitation and its impact on nutrient delivery to Lake Erie. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus.
60. Bade, A., **S. Ludsin**, T. Binder, and C. Vandergoot. 2017. Use of the Ohio reef complex by Walleye during the spring spawning season. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus.
61. Becher, C., **S. Ludsin**, and J. Olesik. 2017. Understanding stocking success of juvenile Channel Catfish in Ohio reservoirs. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus.
62. Blawut, B., M.C. da Silva, **S.A. Ludsin**, S. Hale, D. Sweet, and R. Zweifel, and B. Wolfe. 2017. Use of hypertonic media to cryopreserve Sauger (*Sander canadensis*) spermatozoa. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus.
63. Blawut, B., M.C. da Silva, **S.A. Ludsin**, S. Hale, D. Sweet, and R. Zweifel, and B. Wolfe. 2017. Enhancing Saugeye (*Sander vitreus x S. canadensis*) production through the use of assisted reproductive technologies. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus.
64. Chen, K.Y., E.A. Marschall, M.G. Sovic, H.L. Gibbs, **S.A. Ludsin**, and J.W. Olesik. 2017. Lake Erie Walleye stock discrimination methods and applications. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus.
65. Dillon, R., **S.A. Ludsin**, and J.D. Conroy. 2017. Quantifying bias associated with *Chaoborus* in hydroacoustic surveys of prey-fish biomass in Ohio reservoirs. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus.
66. **Ludsin, S.A.** 2017. Fish flesh as a source of microcystin exposure to humans. Fish Consumption Advisory Committee annual meeting, Ohio Dept. of Health, Reynoldsburg, OH.
67. Manubolu, M., K. Riedl. J. Lee, J.F. Martin, and **S.A. Ludsin**. 2017. Are fish harvested in Lake Erie during the harmful algal bloom season safe to eat? Lake Erie & Inland Waters Annual Research Review, OSU, Columbus.

68. Aloysius, N.R., M. Gildow, J.F. Martin, and **S.A. Ludsin**. 2016. Agricultural management practices to reduce phosphorus runoff to Lake Erie. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus.
69. Aloysius, N.R., S. Y. Gebremariam, J.F. Martin, R.P. Stumpf, and **S.A. Ludsin.** 2015. Hydrologic & climatic controls of cyanobacteria blooms in Lake Erie. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus.
70. Briland, R. D., C. Hu, J. Lee, J. Martin, **S. Ludsin**. 2016. Effects of cyanobacterial blooms on food web dynamics in western Lake Erie. Lake Erie & Inland Waters Annual Research Review. Columbus.
71. Chen, K.-Y., S. A. Ludsin, J. W. Olesik, E.A. Marschall. 2016. Natal homing behavior and mixed stock analysis of walleye in western Lake Erie. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus.
72. Steinhart, G.B., J.D. Conroy, R.D. Zweifel, and **S.A. Ludsin**. 2016. Blue Catfish habitat use in a hypoxic Ohio reservoir. Lake Erie & Inland Waters Annual Research Review. Columbus.
73. Briland, R.D., D.A. Culver, and **S.A. Ludsin**. 2015. Lake Erie phytoplankton analysis, 1995-2013. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus.
74. Chen, K.-Y., E.A. Marschall, M.G. Sovic, H.L. Gibbs, and **S.A. Ludsin**. 2015. Lake Erie walleye stock discrimination using next-generation DNA sequencing. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus.
75. Fraker, M.E., **S.A. Ludsin**, R.M. Brodnik, K. DeVanna-Fussell, E.J. Anderson, L. Carreon-Martinez, B.J. Fryer, D.D. Heath, and J.M. Reichert. 2015. Particle backtracking improves breeding subpopulation discrimination and source identification in mixed populations of Lake Erie walleye. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus.
76. Briland, R., and **S. Ludsin.** 2014. Lake Erie zooplankton dynamics, 1995-2012. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus.
77. Chen, K.-Y., E.A. Marschall, M.G. Sovic, H.L. Gibbs, and **S.A. Ludsin**. 2014. Lake Erie walleye stock discrimination using next-generation DNA sequencing. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus.
78. DuFour, M.R., J.J. Pritt, C.M. Mayer, C.J. May, **S.A. Ludsin**, E.A. Marschall, M.E. Fraker, E.F. Roseman, J.G. Miner, J.J. Davis, C.S. Vandergoot, and J.T. Tyson. 2014. Diversity in a multi-stock system: temporal and spatial portfolio effects in Lake Erie walleye production. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus.
79. Farmer, T.M., **S.A. Ludsin**, E.A. Marschall, and K. Dabrowski. 2014. What does climate change hold for Lake Erie yellow perch? Lake Erie & Inland Waters Annual Research Review, OSU, Columbus.
80. Farmer, T.M., **S.A. Ludsin**, E.A. Marschall, and K. Dabrowski. 2014. Climate change effects on Lake Erie yellow perch reproduction and recruitment. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus.
81. Fraker, M.E., K.M. DeVanna, **S.A. Ludsin**, K.L. Pangle, and Y. Zhao. 2014. Role of biophysical coupling in walleye recruitment. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus.
82. May, C.J., E.A. Marschall, M. Kulasa, **S.A. Ludsin**, and E.F. Roseman. 2014. Walleye recruitment in Western Lake Erie: a tale of two studies. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus.
83. May, C.J., **S.A. Ludsin**, D.A. Culver, D.C. Glover, and E.A. Marschall. 2015. Larval growth as a limiter of Lake Erie walleye recruitment. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus.
84. Briland, R., and **S. Ludsin.** 2013. Regulatory mechanisms of forage community structure in Lake Erie. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus.
85. Chen, K.-Y., E.A. Marschall, J.J. Van Tassell, **S.A. Ludsin**, P.D. Collingsworth, M.K. Nims, and J.W. Olesik. 2013. Is larval walleye river residence time sufficient to establish a natal-site signal in otoliths? Lake Erie & Inland Waters Annual Research Review, OSU, Columbus.

86. Dabrowski, K., M. Korzeniowska, T.M. Farmer, **S.A. Ludsin**, and E.A. Marschall. 2013. The function of neutral lipids in early life history of yellow perch: Transition from endogenous to exogenous nutrition. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus.
87. Farmer, T.M., **S.A. Ludsin**, E.A. Marschall, and K. Dabrowski. 2013. What does climate change hold for Lake Erie yellow perch? Lake Erie & Inland Waters Annual Research Review, OSU, Columbus.
88. Filbrun, J.E., D.A. Culver, and **S.A. Ludsin**. 2013. Feed management in catfish ponds: strategies to optimize fish production. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus.
89. Fraker, M.E., K.-Y. Chen, K.M. DeVanna, E.A. Marschall, C.J. May, **S.A. Ludsin**, E.J. Anderson, J.J. Davis, J.G. Miner, M.R. DuFour, C.M. Mayer, J.J. Pritt, K.L. Pangle, E.F. Roseman, J.T. Tyson, and Y. Zhao. 2013. A coupled biophysical model of walleye recruitment in western Lake Erie. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus.
90. Gebremariam, S.Y., J.F. Martin, C. DeMarchi, and **S.A. Ludsin**. 2013. Evaluation of multiple watershed models to quantify flow and water quality entering western Lake Erie from rivers in Indiana, Michigan, & northwest Ohio. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus.
91. May, C.J., **S.A. Ludsin**, and E.A. Marschall. 2013. Does available growth environment predict walleye recruitment in western Lake Erie? Lake Erie & Inland Waters Annual Research Review, OSU, Columbus.
92. Briland, R.D., and **S.A. Ludsin**. 2012. Regulatory mechanisms of fish community structure and top-predator production in Lake Erie. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus.
93. Burbacher, E.A., and **S.A. Ludsin**. 2012. Effects of hypoxia on hypoxia on habitat quality for hybrid striped bass in Ohio. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus.
94. Chen, K., E.A. Marschall, **S.A. Ludsin**, J.J. Van Tassell, J.W. Olesik, M.K. Nims, and P.D. Collingsworth. 2012. Using otolith microchemistry to discriminate Lake Erie walleye stocks. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus.
95. DeVanna, K.M., K. Chen, C.J. May, E.A. Marschall, **S.A. Ludsin**, Y. Zhao, K.L. Pangle, J.T. Tyson, E.F. Roseman, C.M. Mayer, M.R. DuFour, J.J. Pritt, J. Miner, and J. Davis. 2012. Understanding the role of biophysical coupling in walleye recruitment variation. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus.
96. Farmer, T.M., **S.A. Ludsin**, and E.A. Marschall. 2012. Meteorological effects on yellow perch recruitment in Lake Erie. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus.
97. Filbrun, J.E., D.A. Culver, and **S.A. Ludsin**. 2012. Is artificial feeding important for age-0 channel catfish growth and survival? Lake Erie & Inland Waters Annual Research Review, OSU, Columbus.
98. **Ludsin, S.A.**, C. DeMarchi, E. Irwin, B. Roe, E. Nisbet, E. Toman, R. Wilson, and J. Martin. 2012. Co-evolution of upstream human behavior and downstream ecosystem services in a changing climate. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus.
99. May, C.J., **S.A. Ludsin**, and E.A. Marschall. 2012. Lake Erie walleye: The formative days. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus.
100. Burbacher, E.A, K. Dabrowski, and **S.A. Ludsin**. 2011. A bioenergetics evaluation of hybrid striped bass habitat in Ohio reservoirs. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus.
101. Farmer, T.M., **S.A. Ludsin**, E.A. Marschall, and K. Dabrowski. 2011. Yellow perch spawning distributions, egg quality, and fecundity in Lake Erie's western and central basins. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus.
102. Kinter, B., and **S.A. Ludsin**. 2011. Comparative effects of biotic and abiotic perturbations on reservoir food webs. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus

103. Malinich, T.D., K. L. Pangle, and **S.A. Ludsin**. 2011. Turbidity mediates the non-consumptive effect of a piscivore on its planktivore prey. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus (poster).
104. Pangle, K.L., and **S.A. Ludsin**. 2011. Hypoxia's impact on pelagic fishes: a tale of two planktivores. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus.
105. Farmer, T., **S. Ludsin**, and E. Marschall. 2010. Meteorological effects on yellow perch reproduction and recruitment in Lake Erie. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus.
106. Gover, T., M. Nims, J. Van Tassell, P. Collingsworth, John Olesik, **S. Ludsin**, and E. Marschall. 2010. How much cleaning is needed when processing larval otoliths for microchemical analysis? Lake Erie & Inland Waters Annual Research Review, OSU, Columbus. (poster)
107. Kinter, B., W. Pine, and **S. Ludsin**. 2010. Ecosystem-based modeling evaluation of stocked predator introductions on reservoir food webs. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus.
108. Malinich, T., K. Pangle, and **S. Ludsin**. 2009. Turbidity and predation risk effects on larval and young-of-year yellow perch foraging. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus. (poster)
109. Pangle, K. **S. Ludsin**, S. Blake, S. Friedberg, S. Shaw, and J. Tyson. 2010. Meteorological effects on yellow perch reproduction and recruitment in Lake Erie. Using satellite imagery for Lake Erie fisheries management. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus.
110. Pangle, K., J. Reichert, A. Drelich, K. Mabrey, B. Fryer, T. Johnson, J. Tyson, and **S. Ludsin**. 2009. Yellow perch recruitment in western Lake Erie: the importance of larval habitat use and growth. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus.
111. Sopkovich, E., K. Dabrowski, and **S. Ludsin**. 2010. A bioenergetics-based evaluation of hybrid striped bass habitat quality in Ohio reservoirs. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus.
112. Wellington, C., C. Mayer, J. Bossenbroek, **S. Ludsin**, T. Bridgeman, and J. Tyson. 2008. Physical and biological factors affecting the foraging success of age-0 yellow perch. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus.
113. **Ludsin, S.A.**, B.J. Fryer, P.F. Sale, and R.A. Stein. 2007. Otolith micro-chemical determination of Lake Erie yellow perch natal origins: a focus on the 1995 and 1996 year-classes. Lake Erie & Inland Waters Annual Research Review, OSU, Columbus.
114. **Ludsin, S.A.** 1996. Ecological mechanisms regulating fish community structure in Lake Erie: taking aim at a moving target. Ohio Cooperative Fish and Wildlife Research Unit Coordinating Committee Meeting, Columbus.

Scientific Conferences & Workshops (Contributed; N = 261)

International (N = 52)

1. **Ludsin, S.A.**, J.M. Hood, and A.D. Foley. 2025. Understanding the mechanisms driving asynchronous recruitment dynamics in western and central Lake Erie's Yellow Perch populations. Larval Fish Conference, Québec City, Canada.
2. Krabbenhoft, C.A., **S.A. Ludsin**, E.A. Marschall, L.Z. Almeida, Z.S. Feiner, A.E. Honsey, and G.J.A. Hansen. 2023. A quarter-century decline in walleye recruitment. International Association of Great Lakes Research, Toronto, ON.
3. **Ludsin, S.A.**, C.K. Minns, and M. Munawar. 2023. Needs for and challenges to successful implementation of ecosystem-based approaches in the world's Great Lakes. Great Lakes of the World Conference, Dar es Salaam, Tanzania.
4. **Ludsin, S.A.**, P. Collingsworth, W. Currie, J. Hoffman, J. Watkins, K. Bowen, J. Hood, M. Manubolu, M. Munawar, and R. Rudstam. 2023. Overview of the 2019 CSMI program designed to understand harmful algal bloom & hypoxia impacts on Lake Erie's webs. Great Lakes of the World Conference, Dar es Salaam, Tanzania.

5. Marcek, B., and **S.A. Ludsin**. 2020. Effects of temperature, dissolved oxygen, and harmful algal blooms on Lake Erie Fish abundance. International Association of Great Lakes Research, Winnipeg, ON. (virtual)
6. Grayson, J.D., Z. Almeida, **S. Ludsin**, E. Marschall, and K. Dabrowski. 2019. The effect of *Artemia* enrichment with PUFA and α-tocopherol on the performance of walleye *Sander vitreus* larvae. World Aquaculture Society, New Orleans, LA.
7. Almeida, L.Z., A. Huddleston, J. Hood, **S. Ludsin**, and E. Marschall. 2018. Do winter conditions alter the timing of larval walleye (*Sander vitreu*s) and zooplankton prey production in Lake Erie? Larval Fish Conference, American Fisheries Society, Victoria, BC.
8. Ciborowski, J., C. Winslow, R. Kreis, C. Marvin, and **S. Ludsin**. 2018. Relative importance of prevailing research & management issues in Lake Erie. International Association of Great Lakes Research, Toronto, ON.
9. Huddleston, A., C. May, J. Stone, **S. Ludsin**, E. Marschall, and J. Hood. 2018. The influence of winter severity on the coupling between Lake Erie walleye and their prey. International Association of Great Lakes Research, Toronto, ON.
10. **Ludsin, S.**, D. Dippold, T. Farmer, L. Almeida, J. Hood, C. May, J. Stone, and E. Marschall. 2018. Understanding and predicting climate change impacts on yellow perch recruitment in Lake Erie. Larval Fish Conference, American Fisheries Society, Victoria, BC.
11. Manubolu, M., J. Lee, K. Riedl, J. Martin, D. Dippold, X. Kua, L. Collart, and **S. Ludsin**. 2018. Are fish harvested in Lake Erie during the harmful algal bloom season safe to eat? International Association of Great Lakes Research, Toronto, ON.
12. Bade, A.P., C.S. Vandergoot, T.R. Binder, M.D. Faust, T.J. Hartman, R.T. Kraus, C.C. Krueger, and **S.A. Ludsin**. 2017. From the bar to the bedroom: using sex-specific reproductive behavior to inform management of Lake Erie walleye. World Recreational Fishing Conference. Victoria, British Columbia, Canada.
13. Briland, R. D., C. Hu, J. Lee, J. Martin, **S. Ludsin**. 2016. Cyanobloom impacts on higher consumers in western Lake Erie. International Association for Great Lakes Research. Guelph, ON.
14. Bolam, B.A., K-.Y. Chen, E.A. Marschall, M.G. Sovic, H.L. Gibbs, and **S.A. Ludsin**. 2014. Searching for potential functionality of divergent SNP markers from Lake Erie walleye spawning stocks. American Fisheries Society, Québec City, Canada. (poster)
15. Briland, R.D., J.M. Pfaff, T.M. Farmer, and **S.A. Ludsin**. 2014 Recruitment of invasive white perch in Lake Erie: the relative roles of climate warming and re-eutrophication. International Association for Great Lakes Research, Hamilton, ON.
16. Chen, K.-Y., E.A. Marschall, M.G. Sovic, H.L. Gibbs, and **S.A. Ludsin**. 2014. Lake Erie walleye stock discrimination using next-generation RAD sequencing. American Fisheries Society, Québec City, Canada.
17. Corey, M., K-.Y. Chen, E.A. Marschall, J.W. Olesik, and **S.A. Ludsin**. 2014. Otolith microchemistry as a tool to discriminate between river-spawning populations of walleye (*Sander vitreus*) in Lake Erie. American Fisheries Society, Québec City, Canada. (poster)
18. Dufour, M., J. Pritt, C.M. Mayer, C. May, **S.A. Ludsin**, E.A. Marschall, M. Fraker, E.F. Roseman, J.G. Miner, J. Davis, C.S. Vandergoot, and J. Tyson. 2014. Diversity in a Multi-Stock System: Temporal and spatial portfolio effects in Lake Erie Walleye production. American Fisheries Society, Québec City, Canada.
19. Dufour, M.R., C.J. May, J.J. Pritt, E.R. Roseman, C.M. Mayer, **S.A. Ludsin**, E.A. Marschall, M.E. Fraker, J.J. Davis, J.G. Miner, S.S. Qian, C.S. Vandergoot, and J.T. Tyson. 2014. Diversity in a multi-stock system: temporal and spatial portfolio effects in Lake Erie walleye production. International Association for Great Lakes Research, Hamilton, ON.
20. Evans, M.A., D. Engel, T.O. Höök, **S.A. Ludsin**, J.A. Roberts, J.S. Schaeffer, and A. Stevens. 2014. Linking landscapes, aquatic productivity, and fisheries: an example in Lake Erie. American Fisheries Society, Québec City, Canada.

21. Gebremariam, S.Y., J.F. Martin, and **S.A. Ludsin**. 2014. The dynamics of nutrient loss from the Maumee River basin in response to hydro-climatic shifts in the future. International Association for Great Lakes Research, Hamilton, ON.
22. Gildow, M.C., S.Y. Gebremariam, J.F. Martin, and **S.A. Ludsin**. 2014. Reducing dissolved phosphorus in the Maumee River through implementation of fertilizer management practices. International Association for Great Lakes Research, Hamilton, ON.
23. Heath, D., L. Carreon-Martinez, K. Wellband, K. Pangle, **S.A. Ludsin**, and T.B. Johnson. 2014. Turbid river plumes benefit fish recruitment through reduced larval predation: a novel molecular genetic approach. American Fisheries Society, Québec City, Canada.
24. Kulasa, M.R., C.J. May, E.A. Marschall, E.F. Roseman, and **S.A. Ludsin**. 2014. Impact of Zooplankton Availability on Larval Walleye Diet Selectivity and Growth Rate in Western Lake Erie. International Association for Great Lakes Research, Hamilton, ON. (poster)
25. Pangle, K. J. Marin Jarrin, M. Xia, **S.A. Ludsin**, D. Mason, and E.S. Rutherford. 2014. Combining particle tracking models and otolith chemistry to study active movement of larval yellow perch in western Lake Erie. American Fisheries Society, Québec City, Canada.
26. Wituszynski, D., C. Hu, R.D. Briland, J. Martin, **S.A Ludsin**, and J. Lee. 2014. Algal toxin variation in Lake Erie fish tissue. American Fisheries Society, Québec City, Canada.
27. Xia, M., Niu, Q., Jiang, L., Rutherford, E., Schwab, D., K. Pangle, J.R. Marin Jarrin, **S. Ludsin**, D. Mason. 2014. The development of an unstructured based bio-physical model to Lake Erie yellow perch recruitment. IMBER Future Oceans Conference, Bergen, Norway.
28. Xia, M., Q. Niu, L. Jiang, Z. Cao, E.S. Rutherford, D.J. Schwab, K. Pangle, **S.A. Ludsin**, D.M. Mason, E.J. Anderson, and J. Marin. 2014. The application of an unstructured based bio-physical model to Lake Erie. International Association for Great Lakes Research, Hamilton, ON.
29. Sesterhenn, T.M., D. Goto, D.K. Rucinski, J.V. DePinto, D. Scavia, D. Beletsky, **S. Ludsin**, and T.O. Höök. 2012. Individual-based modeling to Forecast Population-level Effects of Increasing Hypoxia and Temperature on Fish Species in Lake Erie's Central Basin. International Association for Great Lakes Research, Cornwall, ON.
30. Adamack, A.T., M.A. Clouse, **S.A. Ludsin**, D.M. Mason, S.B. Brandt, and H. Zhang. 2011. Effects of hypoxia on fish diets in the northern Gulf of Mexico. Aquatic Sciences Meeting, Association for the Sciences of Limnology and Oceanography, San Juan, Puerto Rico.
31. Zhang, X., R.J. Wood, L. Bahner, E.J. Martino, **S.A. Ludsin**, R. Murtugudde, M. Prasad, and W. Long. 2011. Forecasting Chesapeake Bay striped bass habitat quality and quantity: from physics to fish. Aquatic Sciences Meeting, Association for the Sciences of Limnology and Oceanography, San Juan, Puerto Rico.
32. Johengen, T., K. Pangle, G. Leshkevich, N. Hawley, J. Reichert, A. Giuliano, and **S. Ludsin**. 2010. Biological and physical attributes of the Maumee River plume in western Lake Erie. International Association for Great Lakes Research, Toronto, ON. (poster)
33. Pangle, K., J. Tyson, S. Shaw, G. Leshkevich, A. Giuliano, S. Friedberg, S. Blake, and **S. Ludsin**. 2010. The dynamics of river plumes and yellow perch recruitment in western Lake Erie: Are they related? Biological and physical attributes of the Maumee River plume in western Lake Erie. International Association for Great Lakes Research, Toronto,.
34. Brandt, S.B., M. Costantini, **S.A. Ludsin**, D.M. Mason, and H.A. Vanderploeg. 2008. Spatially-explicit growth predictions to assess habitat quality of walleye during hypoxia in Lake Erie. International Association for Great Lakes Research, Peterborough, ON.
35. Roberts, J.J., T.O. Höök, **S.A. Ludsin**, S.A. Pothoven, and H.A. Vanderploeg. 2008. Bioenergetics model to explore the effects of hypoxia on yellow perch habitat quality in Lake Erie's central basin. International Association for Great Lakes Research, Peterborough, ON.
36. Roberts, J.J., T.O. Höök, **S.A. Ludsin**, S.A. Pothoven, and H.A. Vanderploeg. 2008. Response of yellow perch to hypoxia in Lake Erie's central basin: spatial patterns. American Fisheries Society, Ottawa.

37. Smith, R.E.H., **S.A. Ludsin**, and D.M. Mason. 2008. Physical processes and fish recruitment in the World's Great Lakes. **Ludsin, S.A**., T.O. Höök, D.K. Rucinski, J.V. DePinto, and D. Scavia. 2008. Historical exploration of hypoxia effects on fish recruitment and production in Lake Erie. International Association for Great Lakes Research, Peterborough, ON.
38. Fryer, B.J., S. Melançon, Z. Yang, J.E. Gagnon, Y.E. Morbey, and **S.A. Ludsin**. 2007**.** Biomineralization in fresh water fish: a powerful tool towards solving fisheries issues requires understanding of nucleation and growth in unusual media. Frontiers in Mineral Science 2007, Cambridge, UK.
39. Cavaletto, J.F., H.A. Vanderploeg, and **S.A. Ludsin**. 2006. Vertical migration patterns of zooplankton in Lake Erie's central basin as related to a hypoxic event. International Association for Great Lakes Research, Windsor, ON.
40. Geddes, C.A., J. Tyson, D.M., Krueger, E.S. Rutherford, **S.A. Ludsin**, and T. Johnson. 2006. Development of ecological classifications of open-water habitats in lakes Huron and Erie. International Association for Great Lakes Research, Windsor, ON.
41. Hand, C.H., **S.A. Ludsin**, J.E. Marsden, and B.J. Fryer. 2006. Statolith microchemistry as a tool for determining the stream origins of sea lamprey (*Petromyzon marinus)* in Lake Huron. International Association for Great Lakes Research, Windsor, ON.
42. Höök, T.O, J.J. Roberts, D.L. Fanslow, and **S.A. Ludsin**. 2006. Nucleic acid ratios to index the short-term growth and condition of animals in response to Lake Erie's dead zone. International Association for Great Lakes Research, Windsor, ON.
43. Howe, E.A., J.E. Marsden, **S.A. Ludsin**, C.H. Hand, B.J. Fryer. 2006. Tributary contributions to the parasitic and spawning adult population of sea lamprey (*Petromyzon marinus*) in Lake Champlain using elemental signatures. International Association for Great Lakes Research, Windsor, ON.
44. Johengen, T.J. and **S.A. Ludsin**. 2006. Spatial and temporal development of hypoxia and associated trophic conditions in Lake Erie during 2005. International Association for Great Lakes Research, Windsor, ON.
45. Kimura, M., **S. Ludsin**, E. Rutherford, J. Tyson, T. Johnson, and D. Mason. 2006. Estimating habitat quality and recruitment potential of yellow perch larvae in Lake Erie. International Association for Great Lakes Research, Windsor, ON.
46. Liebig, J.R., H.A. Vanderploeg, G.A. Lang, S.A. Ruberg, S. Constant, **S.A. Ludsin**, J. Cavaletto. 2006. Spatial and temporal distribution of zooplankton and chlorophyll *a* relative to oxygen concentration in the central basin of Lake Erie. International Association for Great Lakes Research, Windsor, ON.
47. **Ludsin, S.A.**, S.B. Brandt, N. Hawley, B.J. Eadie, and M. Lansing. 2006. Overview of the 2005 International Field Years on Lake Erie (IFYLE) hypoxia program. International Association for Great Lakes Research, Windsor, ON.
48. **Ludsin, S.A.**, T.O. Höök, S. Pothoven, J. Roberts, M. Costantini, H.A. Vanderploeg, S.A. Ruberg, J. Cavaletto, J. Liebig, and G. Lang. 2006. Influence of hypoxia on the distribution and behavior of fish in central Lake Erie. International Association for Great Lakes Research, Windsor, ON.
49. Roberts, J.J., T.O. Höök, **S.A. Ludsin**, and S.A. Pothoven. 2006. The effects of hypoxia on offshore stocks of yellow perch (*Perca flavescens*) in Lake Erie's central basin. International Association for Great Lakes Research, Windsor, ON.
50. Bartnik, S.E., T.J. Johnson, **S.A. Ludsin**, and B.J. Fryer. 2004. Mixed stock analysis of a walleye cohort in the western basin of Lake Erie. International Association for Great Lakes Research, Waterloo, ON. (poster)
51. Florence, L.W., **S.A. Ludsin**, W.C. Boicourt, M.R. Roman, and S.B. Brandt. 2003. Effects of the Chesapeake Bay hydraulic control point on zooplankton and bay anchovy distributions. American Fisheries Society, Québec City, Canada.
52. **Ludsin, S.A.**, and D.R. DeVries. 1994. Recruitment of largemouth bass *Micropterus salmoides*: the role of hatch date, gizzard shad *Dorosoma cepedianum*, and overwinter mortality. American Fisheries Society, Halifax, Nova Scotia.

National (N = 209)

1. Andersen, A., M. Faust, S. Colborne, R. Kraus, D. Williams, and **S.A. Ludsin**. 2026. Do external tags influence survival and harvest reporting of walleye implanted with acoustic transmitters? American Fisheries Society, Columbus.
2. Drinko, D., A. Foley, P. Jenkins, and **S.A. Ludsin**. 2026. Asynchrony betwe4en two Lake Erie basins: A statistical analysis of recruitment. American Fisheries Society, Columbus. (poster)
3. Foley, A. K. Green, M. Kato, and **S.A. Ludsin**. 2026. Spatiotemporal variation of zooplankton in central Lake Erie and fish recruitment implications. American Fisheries Society, Columbus.
4. Kato, M., **S.A. Ludsin**, D. Williams, J. Gagnon, B. Fryer, and Z. Yang. 2026. A novel approach to discriminate local spawning stocks using otolith chemistry of surrogate species. American Fisheries Society, Columbus.
5. Wilson, K.B., Z. Slagle, and **S.A. Ludsin**. 2026. Invasive Bythotrephes' impacts on Yellow Perch feeding habits in western Lake Erie. American Fisheries Society, Columbus.
6. Williams, D., M. Faust, R. Kraus, and **S.A. Ludsin**. 2026. Evaluating spawning success and spawner movement responses of Walleye following the Ballville Dam Removal on the Sandusky River. Great Lakes Chapter of the Ecological Society of America, Cleveland, OH.
7. Williams, D., S.A. Ludsin, P. Joseph, T. Kidd, J. Olesik, and W. Shulack. 2026. Evaluating changes in walleye recruitment in Lake Erie following dam removal. American Fisheries Society, Columbus.
8. Bentley, J., and **S. Ludsin**. 2025. Food web structure, ecological niche, and niche overlap of Blue Catfish and other sport fish in Ohio reservoirs using stable isotopes. Ohio, Pennsylvania, and West Virginia Chapters of the American Fisheries Society, Wheeling, WV.
9. Bentley, J., and **S.A. Ludsin**. 2025. Diet and niche overlap of Blue Catfish and resident reservoir sportfishes to inform fisheries management. Midwest Fish & Wildlife Conference, St. Louis, MO.
10. Foley, A., M. Sovic, M. Kato, and **S. Ludsin**. 2025. Using high-throughput sequencing genetic analyses to test for consumption of larval Yellow Perch in piscivorous fish diets. Ohio, Pennsylvania, and West Virginia Chapters of the American Fisheries Society, Wheeling, WV. **(best student poster)**
11. Foley, A.D., J.E. Hood, L.A. Bruckerhoff, and **S.A. Ludsin**. 2025. Incorporating long-term fisheries data to understand fish recruitment in a dynamic ecosystem. Midwest Fish & Wildlife Conference, St. Louis, MO.
12. Foley, A.D., M.G. Sovic, M.T. Kato, and **S.A. Ludsin**. 2025. Novel methods for investigating predation effects on larval Lake Erie Yellow Perch. American Fisheries Society, San Antonio, TX.
13. Gratz, S., J. Bentley, and **S. Ludsin**. 2025. Factors affecting variation in fatty acid composition of selected fishes in central Ohio reservoirs. Ohio, Pennsylvania, and West Virginia Chapters of the American Fisheries Society, Wheeling, WV.
14. Tyszko, S.M., J.J. Pritt, J.E. Kelly, M.A. Figueroa, R.D. Zweifel, **S.A. Ludsin**, and J. D. Conroy. 2025. Recruitment of Channel Catfish stocked as fingerlings and yearlings in Ohio. Midwest Fish & Wildlife Conference, St. Louis, MO.
15. Wilson, K., O. Houpt, and **S. Ludsin**. 2025. The influence of fishing gear on Yellow Perch catch success in western Lake Erie. Ohio, Pennsylvania, and West Virginia Chapters of the American Fisheries Society, Wheeling, WV.
16. Wilson, K.B., E.P. Duskey, L.A. Bruckerhoff, J.M. Hood, H. Luken, Z. Slagle, T.T. Wynne, C.E. Binding, and **S.A. Ludsin**. 2025. Understanding long-term angling success for Yellow Perch in western Lake Erie. American Fisheries Society, San Antonio, TX

17. Xu, L., Y. Jiao, **S. Ludsin**, and O. Jensen. 2025. Seasonal and spatial warming trends in Lake Erie: Impacts on Yellow Perch optimal thermal habitats. International Association for Great Lakes Research, Ann Arbor, MI.
18. Wilson, K.B., L.A. Bruckerhoff, J.M. Hood, and **S.A. Ludsin**. 2024. Determinants of yellow perch angling success in Lake Erie. World Fisheries Congress, Seattle, WA.
19. Bentley, J., and **S. Ludsin**. 2024. Feeding ecology of reservoir-dwelling ictalurids in sympatry and allopatry. Midwest Fish and Wildlife Conference, Sioux Falls, SD.
20. Joseph, P., and **S.A. Ludsin**. 2024. Assessing Sandusky River's contribution to western Lake Erie's Walleye population: Pre-dam removal perspectives and management implications. Larval Fish Conference, Huron, OH. (poster)
21. Bentley, J., and **S.A. Ludsin**. 2023. Feeding ecology of a native and introduced ictalurid in Ohio reservoirs. American Fisheries Society, Grand Rapids, MI. (poster)
22. Wu, Y., B. Sohngen, and **S.A. Ludsin**. 2023. Estimating loss of recreational angling trips from harmful algal blooms in Lake Erie. Agricultural & Applied Economics Association, Washington, DC.
23. Benesh, K., A. Banerji, **S. Ludsin**, D. Bolgrien, K. Bowen, K. Busch, P. Collingsworth, A. Cotter, W. Currie, J. Hood, L. Rudstam, J. Watkins, and J. Hoffman. 2022. Preliminary findings from the Lake Erie CSMI regarding stable isotope-based measures of food web changes associated with harmful algal blooms. State of Lake Erie Conference, International Association for Great Lakes Research, Cleveland, OH.
24. Bowen, K., W.J.S. Currie, J.W. Watkins, L.G. Rudstam, **S.A. Ludsin**, and J.M. Hood. 2022. Summer zooplankton spatial distribution in Lake Erie relative to HABs, hypoxia and trophic gradient. Joint Aquatic Sciences Meeting, Grand Rapids, MI. (virtual)
25. Budnik, R.R., K.M. Busch, C. Harris, D. Bolgrien, K. Bowen, P. Collingsworth, A. Cotter, W.J.S. Currie, R. Dillon, J.C. Hoffman, J.M. Hood, T. Jicha, M. Kulasa, M. Manubolu, M. Piczak, L.G. Rudstam, J.M. Watkins, and **S.A. Ludsin**. 2022. Cyanobacteria bloom effects on fish diet and habitat use in western Lake Erie. Joint Aquatic Sciences Meeting, Grand Rapids, MI.
26. Budnik, R.R., K.M. Busch, C. Harris, M. Kulasa, M. Piczak, P. Collingsworth, W. Currie, J. Hoffman, J. Watkins, D. Bolgrien, K. Bowen, A. Cotter, J. Hood, M. Manubolu, L.G. Rudstam, and **S.A. Ludsin**. 2022. Cyanobacteria bloom effects on the feeding ecology of western Lake Erie's fish assemblage. State of Lake Erie Conference, International Association for Great Lakes Research, Cleveland, OH.
27. Figary, S., R. Barbiero, J. Hood, D. Kane, **S. Ludsin**, L. Rudstam, J. Watkins, and C. Winslow. 2022. Using zooplankton to track ecosystem condition in Lake Erie. State of Lake Erie Conference, International Association for Great Lakes Research, Cleveland.
28. Fite, K., M. Manubolu, R. Budnik, K. Busch, C. Harris, M. Kulasa, D. Bolgrien, K. Bowen, P. Collingsworth, A. Cotter, W. Currie, J. Hoffman, J. Hood, T. Jicha, M. Fitzpatrick, M. Munawar, H. Niblock, L. Rudstam, J. Watkins, and **S.A. Ludsin**. 2022.Understanding microcystin accumulation in Lake Erie's food web. State of Lake Erie Conference, International Association for Great Lakes Research, Cleveland, OH. (poster)
29. Fraker, M., J. Sinclair, K. Frank, J.M. Hood, and **S.A. Ludsin**. 2022. Temporal scope influences ecosystem driver-response relationships in Lake Erie. Joint Aquatic Sciences Meeting, Grand Rapids, MI.
30. Jicha, T., D. Woodruff, D. Bolgrien, A. Opseth, A. Cotter, M. Manubolu, and **S.A. Ludsin**. 2022. Nutrient uptake stoichiometry of harmful algal blooms on Lake Erie. Joint Aquatic Sciences Meeting, Grand Rapids, MI. (virtual)
31. Krabbenhoft, C., **S.A. Ludsin**, E. Marschall, R.R. Budnik, L.Z. Almeida, and G. Hansen. 2022. Spatial and temporal variability in walleye stock recruitment relationships. Joint Aquatic Sciences Meeting, Grand Rapids, MI.
32. **Ludsin, S.A.**, D.A. Dippold, R.R. Budnik, Q. Wang, and L. Boegman. 2022. Modeling historical trends in larval stage duration of Lake Erie walleye to evaluate spring warming impacts on recruitment. Larval Fish Conference, La Holla, CA.

33. **Ludsin, S.A.**, N.R. Aloysius, S.C. Keitzer, D.A. Dippold, M. Fraker, J. Martin, S. Sowa, G. Annis, J.G. Arnold, P. Daggupati, A.M. Froehlich, M.V. Johnson, M.L. Norfleet, D.M. Robinson, A.M. Sasson, M.J. White, and H. Yen. 2022. When nutrient abatement meets climate change: projected impacts on Lake Erie and its watershed. Joint Aquatic Sciences Meeting, Grand Rapids, MI. (virtual)
34. **Ludsin, S.A.**, P. Collingsworth, W. Currie, J. Hoffman, J. Watkins, D. Bolgrien, K. Bowen, A. Cotter, J. Hood, M. Manubolu, and R. Rudstam. 2022. An integrated approach to understand harmful algal bloom and hypoxia impacts on Lake Erie's food webs. Joint Aquatic Sciences Meeting, Grand Rapids, MI.
35. **Ludsin, S.A.**, P. Collingsworth, W. Currie, J. Hoffman, J. Watkins, D. Bolgrien, K. Bowen, A. Cotter, J. Hood, M. Manubolu, and R. Rudstam. 2022. Overview of the 2019 CSMI program designed to understand harmful algal bloom & hypoxia impacts on Lake Erie's webs. State of Lake Erie Conference, International Association for Great Lakes Research, Cleveland, OH.
36. O'Donnell, D., R. Briland, R.R. Budnik, **S.A. Ludsin**, and J.M. Hood. 2022. Lake Erie phytoplankton and zooplankton biomass and community structure during 1995-2020. Joint Aquatic Sciences Meeting, Grand Rapids, MI.
37. Sinclair, J., M. Fraker, J.M. Hood, E.D. Reavie, and **S.A. Ludsin**. 2022. Will water quality management reduce fisheries production? A case study with Lake Erie? Joint Aquatic Sciences Meeting, Grand Rapids, MI. (virtual)
38. Almeida, L.Z., **S.A. Ludsin**, and E.A. Marschall. 2021. Maternal experience and recent growth influence growth rate in Lake Erie Walleye. International Association for Great Lakes Research. (virtual)
39. Faust, M. C. Vandergoot, R. Kraus, T.O. Brenden, Y. Zhao, **S.A. Ludsin**, J. Robinson, and A. Cook. 2021. Do discrete spawning stocks contribute differentially to Lake Erie's walleye fisheries? International Association for Great Lakes Research. (virtual)
40. Fraker, M.E., J.S. Sinclair, K.T. Frank, J.M. Hood, and **S.A. Ludsin**. 2021. Contrasting states of the Lake Erie ecosystem and their implications for ecosystem-based management. International Association for Great Lakes Research. (virtual)
41. Krabbenhoft, C.A, **S.A. Ludsin**, E. Marschall, R.R. Budnik, L.Z. Almeida, and G.J.A. Hansen. 2021. A unified model of Walleye recruitment. American Fisheries Society, Baltimore, MD.
42. Sinclair, J.S., M.E. Fraker, J.M. Hood, K.T. Frank, M.R. DuFour, A. Gorman, and **S.A. Ludsin**. 2021. Functional traits reveal the dominant anthropogenic drivers of change in Lake Erie fish assemblages. International Association for Great Lakes Research. (virtual)
43. Almeida, L.Z., **S. Ludsin**, C. May, D. Glover, E. Roseman, and E. Marschall. 2020. Larval growth and size-selective predation as potential drivers of Walleye recruitment. American Fisheries Society, Columbus.
44. Becher, C., S.M. Tyszko, J.W. Olesik, and **S.A. Ludsin**. 2020. Quantifying contributions of stocked Channel Catfish in reservoir populations using otolith microchemistry. Catfish 2020 Symposium, American Fisheries Society, Little Rock, AR.
45. Budnik, R.R., C.J. May, **S. Ludsin**, D.R. O'Donnell, J.M. Hood, E.R. Roseman, and E.A. Marschall. 2020. Prey quality and quantity during the larval period regulates recruitment of Lake Erie Walleye. American Fisheries Society, Columbus.
46. Euclide, P.T., **S. Ludsin**, E. Marschall, K.Y. Chen, J. Robinson, M. Faust, T.M. MacDougall, C. Wilson, M. Bootsma, W. Stott, K. Scribner, and W. Larson. 2020. Using genomic data to guide Walleye management in the Great Lakes. American Fisheries Society, Columbus.
47. Marcek, B., T. Farmer, E. Marschall, G. Petris, and **S. Ludsin**. 2020. Drivers of fish recruitment in a large freshwater ecosystem are temporally dynamics. American Fisheries Society, Columbus.
48. Stone, J., K. Pangle, S. Pothoven, H.A. Vanderploeg, S. Brandt, T.O. Höök, T.H. Johengen, and **S. Ludsin**. 2020. Hypoxia's impact on pelagic fish populations in Lake Erie: a tale of two planktivores. American Fisheries Society, Columbus.

49. Almeida, L.Z., J. Grayson, K. Dabrowski, **S.A. Ludsin**, and E.A. Marschall. Early life diet quality has lingering effects on juvenile walleye (Sander vitreus). 2019. International Association for Great Lakes Research, Brockport, NY.
50. Almeida, L.Z., M.D. Faust, **S.A. Ludsin**, and E.A. Marschall. 2019. Field-based evidence of latent effects on Lake Erie Walleye growth rates. American Fisheries Society, Reno, NV. *Honorable Mention Best Student Paper Award, Fish Habitat Section.*
51. Almeida, L.Z., M.D. Faust, **S.A. Ludsin**, and E.A. Marschall. 2019. Evaluating the influence of past and current environments on Lake Erie Walleye growth rates. Midwest Fish and Wildlife Conference, Cleveland, OH.
52. Bade, A.P., M.D. Faust, C.S. Vandergoot, J.M. Robinson, T.M. MacDougall, and **S.A. Ludsin**. 2019. Spawning-site fidelity of Lake Erie walleye. Great Lakes Acoustic Telemetry Observation System Coordination Meeting. Ann Arbor, Michigan.
53. Becher, C., S.M. Tyszko, J. Olesik, and **S.A. Ludsin**. 2019. Otolith microchemistry as a tool to understand contributions of stocked fish in reservoir populations: a case study with Channel Catfish. Midwest Fish and Wildlife Conference, Cleveland, OH.
54. Bobay, L.A., L.Z. Almeida, E.A. Marschall, and **S.A. Ludsin**. 2019. Toward examining climate effects on yellow perch recruitment: How do Lake Erie larval yellow perch diets vary within a year? Midwest Fish and Wildlife Conference, Cleveland, OH.
55. Budnik, R.R., G.B. Steinhart, J.D. Conroy, R.D. Zweifel, and **S.A. Ludsin**. 2019. Projected temperature impacts on sport fish habitat quality in Ohio Reservoirs. Midwest Fish and Wildlife Conference, Cleveland, OH.
56. Bunnell, D, **S. Ludsin**, R. Barbiero, P. Collingsworth, T. Hook, J. Hug, R. Knight, B. Lesht, C. Mayer, L. Rudstam, E. Rutherford, A. Scofield, T. Stewart, H. Vanderploeg, and B. Weidel. 2019. Consequences of changing water clarity on fish and fisheries in large lakes: implications for the Laurentian Great Lakes. Association for the Sciences of Limnology and Oceanography, San Juan, Puerto Rico.
57. Collins, M., J. Moreland, M. Angelina, J. Cannaday, **S.A. Ludsin**, E.A. Marschall, and T.M. Farmer. Lake Erie hypoxia reduces Yellow Perch growth. American Fisheries Society, Reno, NV.
58. Dillon, R.A., J.D. Conroy, and **S.A. Ludsin**. 2019. Hypoxia alters spatial overlap of primary and secondary consumers in the pelagic food web of reservoirs. Midwest Fish and Wildlife Conference, Cleveland, OH.
59. Dillon, R.A., J.D. Conroy, and **S.A. Ludsin**. 2019. Quantifying prey availability to larval fishes in temperate, hypoxic reservoirs. American Fisheries Society, Reno, NV.
60. Dippold, D.A., G. Adams, and **S.A. Ludsin**. 2019. Density-dependent and independent effects on walleye harvest in Lake Erie. Midwest Fish and Wildlife Conference, Cleveland, OH.
61. Euclide, P., **S.A. Ludsin**, E.A. Marschall, K.Y. Chen, J.M. Robinson, M.D. Faust, T.M. MacDougall, C.C. Wilson, and W. Larson. 2019. Stock structure and contribution of west and east basin walleye to recreational and commercial fisheries in the Great Lakes. American Fisheries Society, Reno, NV.
62. Fraker, M. K. Frank, J. Hood, and **S. Ludsin**. 2019. Developing an integrated ecosystem assessment of Lake Erie fisheries. International Association for Great Lakes Research, Brockport, NY.
63. Fraker, M.E. C.L. Baggett, **S.A. Ludsin**, B. Luttbeg, and R.J. Denver. 2019. Stress hormone-mediated antipredator morphology improves escape performance in wood frog tadpoles. Ecological Society of America, Louisville, KY.
64. Glaspie, C.N., M. Clouse, K.B. Huebert, **S.A. Ludsin**, D.M. Mason, J.J. Pierson, M.R. Roman, and S.B. Brandt. 2019. Impact of hypoxia on the pelagic food web of the northern Gulf of Mexico. Coastal Estuarine Research Federation Biennial Conference, Mobile, Al.
65. Manubolu, M., J. Lee, K.M. Riedl, J. Martin, and **S.A. Ludsin**. 2019. Are fish safe to eat during the harmful algal bloom season? Understanding Algal Blooms: State of the Science Conference, Toledo, OH. (poster)

66. Ulin, K., L.Z. Almeida, T.A. Brown, D.A. Dippold, S.A. Ludsin, and E.A. Marschall. 2019. Validating daily otolith increment deposition in aquarium-reared juvenile Walleye, *Sander vitreus*. Midwest Fish and Wildlife Conference, Cleveland, OH. (poster)
67. Bade, A.P., T.R. Binder, M.D. Faust, T.J. Hartman, R.M. Kraus, C.C. Krueger, T.M. MacDougall, J.M. Robinson, C.S. Vandergoot, and **S.A. Ludsin**. 2018. Spawning phenology of Lake Erie walleye. Great Lakes Acoustic Telemetry Observation System Coordination Meeting. Ann Arbor, MI.
68. Becher, C., S M. Tyszko, J. Olesik, and **S A. Ludsin**. 2017. delineating hatchery-reared vs. wild-produced Channel Catfish in Reservoirs: an otolith microchemical approach. American Fisheries Society. Tampa, FL.
69. Becher, C., S. Tyszko, J.W. Olesik, and **S.A. Ludsin**. 2018. Otolith microchemistry as a tool to understand contributions of stocked fish in reservoir populations: a case study with channel catfish. American Fisheries Society, Atlantic City, NJ.
70. Blawut, B. C. Moraes, B. Wolfe, D. Sweet, **S. Ludsin**, and M. Coutinho da Silva. 2018. Testicular harvest as a tool to increase milt availability in Sauger (*Sander canadensis*). Society for Theriogenology Annual Meeting, Milwaukee, WI. *1st Place - Dr. Jerry Rains Memorial Abstract Competition*
71. Budnik, R.R., G. Steinhart, J.D. Conroy, R.D. Zweifel, and **S.A. Ludsin**. 2018. Growth rate potential of three important sport fishes in reservoirs spanning a productivity gradient. American Fisheries Society, Atlantic City, NJ.
72. Budnik, R.R., G.B. Steinhart, J.D. Conroy, R.D. Zweifel, and **S.A. Ludsin**. 2018. Growth rate potential of three important fishes in reservoirs spanning a productivity gradient. Midwest Fish and Wildlife Conference, Milwaukee, WI.
73. Dillon, R.A., J.D. Conroy, and **S.A. Ludsin**. 2018. Hydroacoustic estimates of prey-fish abundance change with various analytical decisions. Midwest Fish and Wildlife Conference, Milwaukee, WI.
74. Dillon, R.A., J.D. Conroy, and **S.A. Ludsin**. 2018. Hypoxia alters spatial overlap of primary and secondary consumers in the pelagic food web of reservoirs. American Fisheries Society, Atlantic City, NJ.
75. Dippold, D.A., and **S.A. Ludsin**. 2018. Environmental drivers of Lake Erie walleye harvest. American Fisheries Society, Atlantic City, NJ.
76. Dippold, D.A., N. Aloysius, H. Yen, S.C. Keitzer, J.G. Arnold, P. Daggupati, M. Fraker, J.F. Martin, C.A. Rewa, D.M. Robertson, A.M. Sasson, S.P. Sowa, M.V. Johnson, M.J. White, and **S.A. Ludsin**. 2018. Forecasting the impacts of climate and land-use change on percid recruitment in Lake Erie. Midwest Fish and Wildlife Conference, Milwaukee, WI.
77. Huddleston. A.L., C.J. May, J. Stone, **S.A. Ludsin**, E. A. Marschall, J. M. Hood. 2018. The influence of winter severity on the coupling between Lake Erie larval walleye and their prey. Society of Freshwater Science. Detroit, MI.
78. Stone, J.P, **S.A. Ludsin**, J.M. Hood, and E.A. Marschall. 2018. Response of zooplankton to human-induced rapid environmental change (HIREC) in Lake Erie. Ocean Sciences Meeting, Portland, OR. (poster)
79. Stone, J.P., J.M. Hood, E.A. Marschall, and **S.A. Ludsin**. 2018. Response of zooplankton to human-induced rapid environmental change (HIREC) in Lake Erie. Ocean Sciences Meeting, Portland, OR.
80. Almeida, Z., E.A. Marschall, and **S.A. Ludsin**. 2017. Does food quality or quantity in early life affect fitness later in life? Ecological Society of America, Portland, OR.
81. Aloysius, N., J.F. Martin, **S.A. Ludsin**, M.M. Kalcic, J.B. Kast, and A.M. Apostel. 2017. Drivers of nutrient hotspots in agriculturally dominated watersheds. International Association of Great Lakes Research, Detroit, MI.
82. Bade, A., **S. Ludsin**, T. Binder, C. Vandergoot, and M. Faust. 2017. Use of Lake Erie's Ohio reef complex by Walleye (*Sander vitreus*) during the spring spawning season. Midwest Fish and Wildlife Conference, Lincoln, NE. (poster)

83. Bade, A.B., C.S. Vandergoot, T.R. Binder, M.D. Faust, T.J. Hartman, R.T. Kraus, C.C. Krueger, and **S.A. Ludsin**. 2017. Size-, sex-, and stock-specific use of Ohio's reef complex by walleye during the spring spawning season. Great Lakes Acoustic Telemetry Observation System, Ann Arbor, MI. (poster)
84. Bade, A.B., C.S. Vandergoot, T.R. Binder, M.D. Faust, T.J. Hartman, R.T. Kraus, C.C. Krueger, and **S.A. Ludsin**. 2017. Using knowledge of sex-specific reproductive behavior to inform the management of Lake Erie walleye. International Association of Great Lakes Research, Detroit, MI.
85. Becher, C. S. Tyszko, J.W. Olesik, and **S.A. Ludsin**. 2017. Delineating hatchery-reared vs. wild-produced channel catfish in reservoirs: an otolith microchemical approach. American Fisheries Society, Tampa, FL.
86. Blawut, B. B. Wolf, C. Darr, S. Hale, R. Zweifel, D. Sweet, **S. Ludsin**, and M. Coutinho da Silva. 2017. Use of hypertonic extender to cryopreserve sauger (Sander canadensis) spermatozoa. Society for Theriogenology, Fort Collins, CO. *3rd Place - Dr. Jerry Rains Memorial Abstract Competition*
87. Blawut, B., B. Wolfe, C. Moraes, S. Hale, R. Zweifel, D. Sweet, **S. Ludsin**, and M. Coutinho da Silva. 2017. Enhancing saugeye (*Sander vitreus x S. canadensis*) production through the use of assisted-reproduction technologies. Ohio Aquaculture – American Fisheries Society State Chapter joint meeting. Columbus.
88. Briland, R.A., M. Manubolu, C. Hu, J. Lee, J.F. Martin, and **S.A. Ludsin**. 2017. Cyanobacterial bloom impacts on higher consumers in western Lake Erie. International Association of Great Lakes Research, Detroit, MI.
89. Dillon, J.D. Conroy, L.G. Rudstam, and **S.A. Ludsin**. 2017. Quantifying potential bias of planktonic invertebrates in acoustic surveys of prey-fish density. American Fisheries Society, Tampa, FL.
90. Dillon, R., J.D. Conroy, and **S.A. Ludsin**. 2017. Determining potential bias by *Chaoborus* during hydroacoustic surveys of prey fish biomass in Ohio reservoirs. Indiana and Ohio Chapters of the American Fisheries Society, Muncie, IN. *Best Student Paper Award*
91. Dillon, R., J.D. Conroy, and **S.A. Ludsin**. 2017. Determining potential bias by *Chaoborus* during hydroacoustic surveys of prey fish biomass in Ohio reservoirs. Midwest Fish and Wildlife Conference, Lincoln, NE. (poster)
92. Dillon, R.A., J.D. Conroy, L.G. Rudstam, and **S.A. Ludsin**. 2017. Quantifying potential bias of planktonic invertebrates in acoustic surveys of prey fish density. International Association of Great Lakes Research, Detroit, MI. (poster)
93. Dippold, D.A., N. Aloysius, H. Yen, S.E. Keitzer, J. Arnold, D.M. Robertson, M. White, S.P. Sowa, A. Sasson, C. Rewa, M.E. Fraker, and **S.A. Ludsin**. 2017. Forecasting the effects of climate and land-use change on Lake Erie's fish populations. International Association of Great Lakes Research, Detroit, MI. (poster)
94. Dippold, D.A., N. Aloysius, H. Yen, S.E. Keitzer, J.G. Arnold, P. Daggupati, M.E. Fraker, J.F. Martin, C.A. Rewa, D.M. Robertson, A.M. Sasson, S.P. Sowa, M.V. Johnson, M.J. White, and **S.A. Ludsin**. 2017. Forecasting the effects of climate and land-use change on fish recruitment in Lake Erie. American Fisheries Society, Tampa, FL.
95. Huddleston, A.L., J.M. Hood, E.A. Marschall, C.J. May, and **S.A. Ludsin**. 2017. The effects of warmer winters on Lake Erie zooplankton. International Association of Great Lakes Research, Detroit, MI. (poster)
96. Lee, S., X. Jiang, M. Manubolu, **S.A. Ludsin**, J.F. Martin, and J. Lee. 2017. Fate of microcystin in crops and soil during pre- and post-harvest. International Association of Great Lakes Research, Detroit, MI. (poster)
97. Lee, S., X. Jiang, M. Manubolu, **S.A. Ludsin**, J.F. Martin, and J. Lee. 2017. Bioaccumulation of microcystin in vegetables: impact on food quality and human health risk. International Association of Great Lakes Research, Detroit, MI.
98. Manubolu, M., J. Lee, K.M. Riedl, X.Z. Kua, L.P. Collart, and S.A. Ludsin. 2017. Optimized extraction methods for quantifying microcystins in fish, plants, and soils using UPLC-

MS/MS. Understanding Algal Blooms: State of the Science Conference, Toledo, OH. (poster)

99. Sowa, S.P., M. Herbert, G. Annis, A. Brennan, R. Dell, P.J. Doran, M.K. Fales, A. Froehlich, D. Pearsall, J. Ross, A. Sasson, W. Stanley, J. Asher, G. O'Neill, C. Keitzer, **S.A. Ludsin**, and C. Rewa. 2017. Complementary role of science, models, and decision tools in helping achieve sustainable agriculture. International Association of Great Lakes Research, Detroit, MI.
100. Blawut, B. Wolfe, C. Moraes, S. Hale, R. Zweifel, D. Sweet, **S. Ludsin**, and M. Coutinho da Silva. 2016. Use of hypertonic medium to cryopreserve Sauger (*Sander canadensis*) spermatozoa. American Fisheries Society, Kansas City, MO.
101. Fraker, M.E., **S.A. Ludsin**, D. Glover, S.C. Keitzer, and N. Aloysius. 2016. Spatial variation in impacts of ecosystem change on habitat quality for a Lake Erie fish. Ecological Society of America, Fort Lauderdale, FL.
102. Hunter, R., J. Gostiaux, C. May, C. Vandergoot, E. Roseman, M. DuFour, E. Marschall, D. Glover, and **S. Ludsin**. 2016. Comparison of active and passive sampling gears for estimating walleye egg deposition on open-lake reefs. Midwest Fish and Wildlife Conference, Grand Rapids, MI. (poster)
103. Lee, S. X. Jiang, M. Manubolu, **S.A. Ludsin**, J.F. Martin, and J. Lee. 2016. Microcystin accumulation in fresh produce from contaminated irrigation water. Ohio Agricultural Research and Development Center Annual Research Conference, Columbus.
104. Steinhart, G.B., J.D. Conroy, **S.A. Ludsin**, and R.D. Zweifel. 2016. Midwest Fish and Wildlife Conference, Grand Rapids, MI.
105. Aloysius, N.R., J.F. Martin, **S.A. Ludsin**, and R.P. Stumpf. 2015. Future climate impacts on harmful algal blooms in an agriculturally dominated ecosystem. American Geophysical Union, San Francisco, CA. (poster**)**
106. Aloysius, N.R., J.F. Martin, **S.A. Ludsin**, and R.P. Stumpf. 2015. Impact of climate change on harmful algal blooms in the western Lake Erie. International Association for Great Lakes Research, Burlington, VT.
107. Briland, R.D., D.A. Culver, and **S.A. Ludsin**. 2015. Zooplankton community response to re-eutrophication and *Microcystis* blooms in Lake Erie. International Association for Great Lakes Research, Burlington, VT.
108. Chen, K.-Y., E.A. Marschall, M. Corey, P. Collingsworth, M.K. Nims, J.W. Olesik, JJ. Van Tassell, **S.A. Ludsin**. 2015. Experimental and field evaluation of otolith strontium as a marker to discriminate between river-spawning populations of walleye in Lake Erie. American Fisheries Society, Portland, OR.
109. Chen, K.-Y., M.G. Sovic, E.A. Marschall, H.L Gibbs, and **S.A. Ludsin**. 2015. Methodological considerations when using RAD-Seq to discriminate among weakly differentiated fish populations: why cross-validation procedures and sample sizes matter. American Fisheries Society, Portland, OR. (poster)
110. Collart, L.P., C. Hu, R.D. Briland, J. Lee, and **S.A. Ludsin**. 2015. Phylogenetic and nitrogen growth analyses of Lake Erie *Microcystis* strains. International Association for Great Lakes Research, Burlington, VT. (poster)
111. Kane, D.D., **S.A. Ludsin**, R.D. Briland, D.A. Culver, M. Fitzpatrick, R. Rozon, H. Niblock, and M. Munawar. 2015. Ten years gone: continued degradation of plankton communities in lakes Erie and Ontario. International Association for Great Lakes Research, Burlington, VT.
112. Keitzer, S.C., S. Sowa, G. Annis, A. Froehlich, M. Herbert, A. Sasson, and **S.A. Ludsin**. 2015. Stream fish community dynamics in Lake Erie's agriculturally dominated western basin watersheds. Joint Aquatic Sciences Meeting. Portland, OR. (oral presentation)
113. Keitzer, S.C., **S.A. Ludsin**, S. Sowa, A. Sasson, M. Herbert, G. Annis, A. Froelich, C. Volmer-Sanders, J. Arnold, M. White, H. Yen, P. Daggaputi, L. Norfleet, M.-V. Johnson, J. Atwood, and C. Rewa. 2015. Using the Soil and Water Assessment Tool to provide critical spatial information about the magnitude of water quality stressors and their effect

on stream biodiversity. International Soil & Water Assessment Tool Conference, West Lafayette, IN.

114. Marin Jarrin, J. R., K. Pangle, M. Xia, **S. Ludsin**, D. Mason, and E. Rutherford. 2015. Combining particle tracking models and otolith chemistry to study the swimming behavior of larval yellow perch in western Lake Erie. 2015. Joint Aquatic Sciences Meeting. Portland, OR.
115. Wituszynski, D., J. Martin, C. Hu, **S.A. Ludsin**, J. Lee, and K. Riedl. 2015. Concentrations of microcystin-derived compounds in Lake Erie sportfish. Ecological Society of America, Baltimore, MD. (poster)
116. Wituszynski, D., J. Martin, C. Hu, **S.A. Ludsin**, J. Lee, and K. Riedl. 2015. Concentrations of microcystin-derived compounds in Lake Erie sportfish. Ecological Society of America, Baltimore, MD. (poster)
117. Wituszynski, D., K. Sikon, C. Hu, R.D. Briland, K. Riedl, J. Lee, **S.A. Ludsin**, and J.F. Martin. 2015. Fate and concentration of microcystin in Lake Erie game fish. International Association for Great Lakes Research, Burlington, VT.
118. Wituszynski, D., K. Sikon, C. Hu, R.D. Briland, K. Riedl, J. Lee, **S.A. Ludsin**, and J.F. Martin. 2015. Fate and concentration of microcystin in Lake Erie game fish. International Association for Great Lakes Research, Burlington, VT.
119. Briland, R.D., D.A. Culver, and **S.A. Ludsin**. 2014. Zooplankton community response to increasing nutrient inputs and *Microcystis* blooms in Lake Erie. Joint Aquatic Sciences Meeting. Portland, OR.
120. Farmer, T.M., E.A. Marschall, K. Dabrowski, and **S.A. Ludsin**. 2014. Climate change effects on Lake Erie yellow perch reproduction and recruitment. American Fisheries Society – Ohio Chapter, Columbus. *Best student presentation***.**
121. Briland, R.D., and **S.A. Ludsin**. 2013. Prey-fish community structure in Lake Erie: historical shifts and their drivers. International Association for Great Lakes Research, West Lafayette, IN.
122. Chen, K.-Y., M.G. Sovic, E.A. Marschall, H.L. Gibbs, and **S.A. Ludsin**. 2013. Evaluation of restriction-site associated DNA sequencing (RADseq) to discriminate Lake Erie walleye stocks. West Virginia and Ohio Chapters of the American Fisheries Society, Huntington, WV. (poster)
123. Fraker, M.E., E.J. Anderson, R. Brodnik, K.M. DeVanna, L. Carreon-Martinez, B.J. Fryer, D.D. Heath, J.M. Reichert, and **S.A. Ludsin**. 2013. Particle backtracking as a tool to improve stock discrimination capabilities in mixed populations. Ecological Society of America, Minneapolis, MN.
124. Gebremariam, S.Y., J.F. Martin, C. DeMarchi, E. Irwin, W. Zhang, N. Chen, and **S.A. Ludsin**. 2013. Impacts of crop management practices in the Maumee Watershed on dissolved phosphorus inputs to Lake Erie. International Association for Great Lakes Research, West Lafayette, IN.
125. Marin Jarrin, J.R., K.L. Pangle, M. Xia, **S.A. Ludsin**, D.M. Mason, and E.S. Rutherford. 2013. Combining particle tracking models and otolith chemistry to study the swimming behavior of larval Yellow Perch in western Lake Erie. Joint Aquatic Science Meeting, Portland, OR.
126. Marin Jarrin, J.R., K.L. Pangle, M. Xia, **S.A. Ludsin**, D.M. Mason, and E.S. Rutherford. 2013. Linking river discharge and wind-driven currents to the success of larval yellow perch in western Lake Erie. International Association for Great Lakes Research, West Lafayette, IN.
127. Wituszynski, D.M., S. Gebremariam, J.F. Martin, **S.A. Ludsin**, J. Lee. 2013. Modeling public health effects of climate change: predicting human exposure to microcystin from Lake Erie. Ecological Society of America, Minneapolis, MN.
128. Xia, M., Q. Niu, Z. Cao, L. Jiang, E. Rutherford, D. Schwab, E. Anderson, K. Pangle, J.R. Marin Jarrin, **S. Ludsin**, and D. Mason. 2013. The application of an unstructured based bio-physical model to Lake Erie. International Conference on Estuarine and Coastal Modeling, San Diego, CA.

129. Brodnik, R., L. Carreon-Martinez, B.J. Fryer, D.D. Heath, K.L. Pangle, J.M. Reichert, E.F. Roseman, and **S.A. Ludsin**. 2012. Population connectivity and maintenance of genetic structure in yellow perch populations in western Lake Erie and the Lake St. Clair-Detroit River corridor. American Fisheries Society, St. Paul, MN.
130. Chen, K-.Y., P.D. Collingsworth, M.K. Nims, J.W. Olesik, J.J. Van Tassell, E.A. Marschall, and **S.A. Ludsin**. 2012. Is larval walleye river residence time sufficient to establish a natal-site signal in otolith chemistry? American Fisheries Society, St. Paul, MN.
131. Farmer, T.M., **S.A. Ludsin**, and E.A. Marschall. 2012. Meteorological effects on yellow perch recruitment in Lake Erie. American Fisheries Society, St. Paul, MN.
132. Filbrun, J.E., D.A. Culver, and **S.A. Ludsin**. 2012. Does artificial feed enhance age-0 channel catfish growth? Ohio Chapter of the American Fisheries Society, Ashland. *Best professional presentation.*
133. Filbrun, J.E., D.A. Culver, and **S.A. Ludsin**. 2012. The role of palatable resource subsidies in ecosystems: artificial feeding in fish ponds. Hayes Graduate Research Forum, OSU, Columbus.
134. Filbrun, J.E., D.A. Culver, X. Yang, and **S.A. Ludsin**. 2012. Effects of manufactured feed provision on juvenile channel catfish in rearing ponds. Midwest Fish and Wildlife Conference, Wichita, KS.
135. Gebremariam, S.Y., J. Martin, C. DeMarchi, and **S.A. Ludsin**. 2012. Modeling hydrologic and ecological factors impacting phosphorus movement from agricultural fields to rivers in NW Ohio. American Ecological Engineering Society, Rochester, NY.
136. Gebremariam, S.Y., J. Martin, C. DeMarchi, and **S.A. Ludsin**. 2012. Toward development of a coupled human-natural systems model to understand climate impacts on the Lake Erie ecosystem. American Geophysical Union, San Francisco, CA. (poster)
137. Hurtado, P., K. Pangle, Y. Lou, E. Marschall, and **S. Ludsin**. 2012. Do hypoxia-induced changes in habitat use and physiological stress increase disease spread among fish? Ecology and Evolution of Infectious Disease Workshop and Conference, University of Michigan, Ann Arbor. (poster)
138. Lang, K., K.L. Pangle, J.D. Conroy, S. Goonewardena, and **S.A. Ludsin**. 2012. Hypoxia as a mediator of food web interactions and energy flow in reservoir ecosystems. American Fisheries Society, St. Paul, MN. (poster)
139. Lochet A., J.E. Marsden, B.J. Fryer, and **S.A. Ludsin**. 2012. Natal origin of parasitic sea lamprey using statolith microchemistry. New York Chapter of the American Fisheries Society, Lake Placid.
140. Lochet, A., J.E. Marsden, B.J. Fryer, and **S.A. Ludsin**. 2012. Tracking the natal origin of parasitic sea lamprey using statolith microchemistry. American Fisheries Society, St. Paul, MN.
141. Martin, J., R. Wilson, E. Toman, E. Nisbet, S. Ludsin, S. Gebremariam, C. DeMarchi, E. Irwin, and B. Roe. 2012. Co-evolution of upstream human behavior and downstream ecosystem services in a changing climate. American Ecological Engineering Society, Rochester, NY.
142. Sesterhenn, T.M., D. Goto, D. Rucinski, J.V. DePinto, D. Scavia, D. Beletsky, **S.A. Ludsin**, and T.O. Höök. 2012. Modeling vertical movements of Lake Erie fishes: comparing different movement rules and different measurement scales with field observations. American Fisheries Society, St. Paul, MN.
143. Arslan, M., K. Dabrowski, E. Burbacher, and **S. Ludsin**. 2011. Hypoxia and temperature alter lipid and fatty acid accumulation in hybrid striped bass. World Aquaculture 2011, Natal, Brazil.
144. Briland, R.D., and **S.A. Ludsin**. 2011. Regulatory mechanisms of fish community structure and top-predator production in Lake Erie. American Fisheries Society, Seattle, WA.
145. Carreon-Martinez, L., T. Johnson, **S. Ludsin**, and D.D. Heath. 2011. Lake Erie larval yellow perch predation: a molecular genetic approach. American Fisheries Society, Seattle, WA.

146. Chen, K.-Y., E.A. Marschall, **S.A. Ludsin**, M.K. Nims, P.D. Collingsworth, J.J. Van Tassell, and J.W. Olesik. 2011. Temperature and elemental concentration effects on rates of strontium incorporation in walleye otoliths during early life stages. American Fisheries Society, Seattle, WA. (poster)
147. Farmer, T., C. Knight, A. Gorman, K. Pangle, and **S. Ludsin**. 2011. Hypoxia's impact on fish distributions and population estimates. American Fisheries Society, Seattle, WA.
148. Filbrun, J.E., D.A. Culver, and **S.A. Ludsin**. 2011. The role of resource subsidies in ecosystems: lessons from artificial feeding in fish ponds. American Fisheries Society, Seattle, WA.
149. Goto, D., D.K. Rucinski, J.V. DePinto, **S.A. Ludsin**, D. Scavia, and T.O. Höök. 2011. Population-level consequences of hypolimnetic hypoxia in Lake Erie: implications from a spatially explicit individual-based model. Aquatic Sciences Meeting, Association for the Sciences of Limnology and Oceanography, San Juan, Puerto Rico.
150. Goto, D., D.K. Rucinski, J.V. DePinto, **S.A. Ludsin**, D. Scavia, and T.O. Höök. 2011. Elucidating indirect impacts of seasonal hypoxia development on fish populations in Lake Erie using a spatially explicit individual-based model. International Association for Great Lakes Research, Duluth, MN.
151. Gover, T.R., M.K. Nims, J.J. Van Tassell, P.D. Collingsworth, J.W. Olesik, **S.A. Ludsin**, and E.A. Marschall. 2011. How much cleaning is needed when processing larval otoliths for microchemical analysis? American Fisheries Society, Seattle, WA. (poster)
152. Kinter, B., and **S. Ludsin.** 2011. Evaluating the ability of an introduced piscivore to control gizzard shad in reservoirs: an ecosystem-based modeling approach. Midwest Fish and Wildlife Conference, Des Moines, IA.
153. Kinter, B., and **S. Ludsin**. 2011. Regulation of reservoir food webs by external nutrient inputs. American Fisheries Society, Seattle, WA.
154. Lochet, A., J.E. Marsden, B.J. Fryer, and **S.A. Ludsin**. 2011. Can statolith microchemistry be used to track natal origin of parasitic sea lamprey? International Association for Great Lakes Research, Duluth, MN.
155. Pangle, K., L. Carreon-Martinez, J. Reichert, A. Drelich, B. Fryer, D.D. Heath, J. Tyson, T. Johnson, and **S. Ludsin**. 2011. How river plumes benefit recruitment of a coastal fish population: the relative importance of top-down versus bottom-up processes. American Fisheries Society, Seattle, WA.
156. Pinkerton, J., T. Farmer, J. Van Tassell, E. Marschall, and **S.A. Ludsin**. 2011. Understanding annual variation in female yellow perch age-at-maturity in Lake Erie. American Fisheries Society, Seattle, WA. (poster)
157. Briland, R.D., D.A. Culver, and **S.A. Ludsin**. 2010. Performance of a bioenergetics model to predict growth of young-of-year walleye and saugeye. American Fisheries Society, Pittsburgh, PA.
158. Farmer, T.M, E.A. Marschall, and **S.A. Ludsin**. 2010. Energetic costs of climate change: winter temperature and hypoxia effects on reproduction of an iteroparous, cool-water fish. Ecological Society of America, Pittsburgh, PA.
159. Kinter, B.T., **S.A. Ludsin**, and W.E. Pine. 2010. Ecosystem-based modeling evaluation of stocked predator introductions on reservoir food webs et al. American Fisheries Society, Pittsburgh, PA.
160. Knight, C., A.M. Gorman, T. Farmer, **S. Ludsin**, and K. Pangle. 2010. Sampling low dissolved oxygen waters can change population estimates. American Fisheries Society, Pittsburgh, PA.
161. **Ludsin, S.A.**, K.L. Pangle, J.M. Reichert, J.T. Tyson, T.B. Johnson, B.J. Fryer, and A.B. Drelich. 2010. Pulse-driven fish population dynamics following a regime shift in Lake Erie. Ecological Society of America, Pittsburgh, PA.
162. Malinich, T.D., K.L. Pangle, and **S.A. Ludsin**. 2010. Turbidity mediates the non-consumptive effect of a piscivore on its planktivore prey. Ecological Society of America, Pittsburgh, PA. (poster)

163. Pangle, K.L., S. Pothoven, H.A. Vanderploeg, T.O. Höök, S.B. Brandt, and **S.A. Ludsin**. 2010. Hypoxia's impact on pelagic fishes: a tale of two planktivores. Ecological Society of America, Pittsburgh, PA.
164. Sopkovich, E.A., **S.A. Ludsin**, and K. Dabrowski. 2010. Suitability of reservoirs for hybrid striped bass: Insights from an experimental evaluation of temperature and dissolved oxygen effects on consumption, growth, and condition. American Fisheries Society, Pittsburgh, PA.
165. Zhang, X., R.J. Wood, L. Bahner, **S.A. Ludsin**, E.J. Martino, B. Mathukumalli, W. Long, and R. Murtugudde. 2010. Chesapeake Bay striped bass habitat suitability forecasting: moving ecosystem modeling from research to operation. Ocean Sciences Meeting, Portland, OR.
166. Zhang, X., R.J. Wood, L. Bahner, **S.A. Ludsin**, E.J. Martino, M.B.K. Prasad, W. Long, R. Murtugudde. 2010. Chesapeake Bay striped bass habitat suitability forecasting: moving ecosystem modeling from research to operation. Chesapeake Community Modeling Program, Chesapeake Modeling Symposium, Annapolis, MD.
167. Arend, K., T. Höök, **S. Ludsin**, D. Rucinski, J. DePinto, and D. Scavia. 2009. Evaluating and forecasting effects of hypoxia on yellow perch habitat suitability in central Lake Erie. Indiana American Fisheries Society, Indianapolis, IN. *Best Professional Paper Award*
168. Arend, K., T. Höök, **S.A. Ludsin**, D. Rucinski, D. Beletsky, J. DePinto, D. Scavia, and D. Schwab. 2009. Comparing effects of hypolimnetic hypoxia on yellow perch and rainbow smelt habitat Suitability in central Lake Erie. International Association for Great Lakes Research, Toledo, OH.
169. Brandt, S.B., A.T. Adamack, H. Zhang, K.M. Boswell, **S.A. Ludsin**, D.M. Mason, M.R. Roman, and W.C. Boicourt. 2009. Broad- and fine-scale effects of hypoxia on pelagic fish in the northern Gulf of Mexico. Coastal and Estuarine Research Federation, Portland, OR.
170. Carreon-Martinez, L.B., D.D.D. Heath, **S.A. Ludsin**, and T.B. Johnson. 2009. Yellow perch *(Perca flavescens)* larval survival in the western basin of Lake Erie estimated using genetic analysis. International Association for Great Lakes Research, Toledo, OH.
171. Conroy, J.D., **S.A. Ludsin**, K.A. Kayle, J.T. Tyson, R.L. Knight, and H.A. Cook. 2009. Fish community structure in Lake Erie: continued rehabilitation or a return to degradation? International Association for Great Lakes Research, Toledo, OH.
172. Legler, N.L., T.B. Johnson, D.D.D. Heath, and **S.A. Ludsin**. 2009. Influence of river plumes on feeding of Lake Erie fishes. International Association for Great Lakes Research, Toledo, OH.
173. Pangle, K.L., D.B. Bunnell, J.M. Reichert, A. Drelich, and **S.A. Ludsin**. 2009. Yellow perch larval habitat quality in western Lake Erie. International Association for Great Lakes Research, Toledo, OH.
174. Roberts, J.J., T.O. Höök, **S.A. Ludsin**, and S.A. Pothoven. 2009. Growth and condition of yellow perch in response to hypoxia: synthesis of lab and field results. American Fisheries Society, Nashville, TN.
175. Roberts, J.J., T.O. Höök, **S.A. Ludsin**, P.A. Grecay, H.A. Vanderploeg, and S.A. Pothoven. 2009. Sub-daily behavioral consequences of hypoxia for yellow perch in Lake Erie's central basin. International Association for Great Lakes Research, Toledo, OH.
176. Zhang, H., D.M. Mason, **S.A. Ludsin**, S.B. Brandt, A.T. Adamack, C. Stow, M.R. Roman, and W.C. Boicourt. 2009. Hypoxia impacts on the growth and distribution of the pelagic fish in the northern Gulf of Mexico. Coastal and Estuarine Research Federation, Biennial Conference, Portland, OR.
177. Zhang, X., R.J. Wood, L. Bahner, E.D. Houde, **S.A. Ludsin**, L. Chakot., E.J. Martino, J.J. Pierson, and H. Townsend. 2009. Forecasting striped bass habitat suitability in Chesapeake Bay: implications for ecosystem-based fisheries management. Coastal and Estuarine Research Federation, Biennial Conference, Portland, OR.
178. Arend, K., T. Höök, **S. Ludsin**, D. Rucinski, J. DePinto, and D. Scavia. 2008. Effects of hypoxia on yellow perch habitat suitability in the central basin of Lake Erie. Midwest Fish and Wildlife Conference, Columbus.

179. Filbrun, J.E., **S.A. Ludsin**, and D.A. Culver. 2008. Effects of reduced feeding rate on water quality and young-of-the-year and age-1 channel catfish. Midwest Fish and Wildlife Conference, Columbus.
180. Gover, T.R., M.K. Nims, J.J. Van Tassell, P.D. Collingsworth, J.W. Olesik, **S.A. Ludsin**, and E.A. Marschall. 2008. Comparison of Processing Methods for Analysis of Larval Otoliths by LA-ICPMS. Midwest Fish and Wildlife Conference, Columbus, OH. (poster)
181. Höök, T.O, D. Fanslow, J. Reichert, and **S.A. Ludsin**. 2008. Short-term growth of larval percids in river plumes of western Lake Erie. Midwest Fish and Wildlife Conference, Columbus.
182. Zhang, X., L. Bahner, R.J. Wood, E.D. Houde, **S.A. Ludsin**, E. Annis, L.W. Harding, R.H. Kelsey, L. Chakot, and S.B. Brandt. 2008. Habitat suitability modeling for bay anchovy in Chesapeake Bay. Chesapeake Modeling Symposium, Annapolis, MD.
183. Carreon-Martinez, L., **S. Ludsin**, T. Johnson, and D.D. Heath. 2007. The effect of time of day, predator species and size, and feeding location on diet composition in the western basin of Lake Erie using DNA-based techniques. American Fisheries Society, San Francisco, CA.
184. Legler, N., **S. Ludsin**, T. Johnson, and D.D. Heath. 2007. The effects of turbidity on prey consumption and feeding cycles of western Lake Erie fishes. American Fisheries Society, San Francisco, CA.
185. Lowe, M.A., R. Wright, D.R. DeVries, **S.A. Ludsin**, and B.J. Fryer. 2007. Using Otolith microchemistry to reconstruct the past environments of a freshwater and a marine piscivore in a seasonally saline tidal river estuary. American Fisheries Society, San Francisco. CA.
186. **Ludsin, S.A.**, H.A. Vanderploeg, S.A. Pothoven, D.M. Mason, T. Höök, and S.A. Ruberg. 2007. Hypoxia effects on habitat and prey availability for rainbow smelt in central Lake Erie. International Association for Great Lakes Research, University Park, PA.
187. Pothoven, S.A., **S.A. Ludsin**, H.A. Vanderploeg, and T.O. Höök. 2007. Effects of Lake Erie hypoxia on pelagic fish feeding ecology. International Association for Great Lakes Research, University Park, PA. (poster)
188. Rae, C., **S. Ludsin**, K. Hozyash, and D. Kimmel. 2007. Hypoxia effects on fish in the Northern Gulf of Mexico. 21st National Conference on Undergraduate Research, Dominican University of California, San Rafael, CA. (poster)
189. Reichert, J., **S. Ludsin**, B. Fryer, G. Milanowski, T. Johnson, J. Tyson, T. Johengen, and N. Hawley. 2007. Role of river plumes in mediating larval yellow perch foraging, growth, and survival in Lake Erie. American Fisheries Society, San Francisco.
190. Roberts, J.J., T.O. Höök, **S.A. Ludsin**, S.A. Pothoven, H.A. Vanderploeg, and T.F. Nalepa. 2007. The ecological response of yellow perch to hypoxia in Lake Erie's central basin. International Association for Great Lakes Research, University Park, PA.
191. Geddes, C., J. Tyson, E. Rutherford, D. Krueger, **S. Ludsin**, and T. Johnson. 2006. An ecological classification of open-water habitats in Lake Erie. Zhang, X., L. Bahner, R. Wood, E. Houde, E. Annis, L. Harding, R. Kelsey, **S. Ludsin**, and S. Brandt. 2007. Modeling the temporal and spatial variability in bay anchovy habitat suitability in Chesapeake Bay. Estuarine Research Foundation, Providence, RI.
192. Howe, E. A., J.E. Marsden, **S.A. Ludsin**, C.H. Hand, and B.J. Fryer. 2006. Tributary contributions to the parasitic and spawning adult population of sea lamprey (*Petromyzon marinus*) in Lake Champlain using elemental signatures. American Fisheries Society, Lake Placid, NY.
193. Howe, E. A., J.E. Marsden, **S.A. Ludsin**, C.P. Hand, and B.J. Fryer. 2006. Tributary contributions to the parasitic and spawning adult population of sea lamprey (*Petromyzon marinus*) in Lake Champlain using elemental signatures. Northeastern Division American Fisheries Society conference, Burlington VT.
194. Kimura, M., **S. Ludsin**, E. Rutherford, J. Tyson, T. Johnson, D. Mason, E. Roseman, and J. Mion. 2006. Estimating habitat quality and recruitment potential of yellow perch larvae in Lake Erie. American Fisheries Society, Lake Placid, NY. (poster)

195. Lowe, M., D. DeVries, R. Wright, **S. Ludsin**, and B. Fryer. 2006. Using otolith microchemistry to reconstruct past environments of age-0 largemouth bass and southern flounder in a seasonally saline, tidal river estuary. Ecological Society of America, Memphis, TN.
196. **Ludsin, S.A.**, S.B. Brandt, H.A. Vanderploeg, M.R. Roman, W.C. Boicourt, D.G. Kimmel, and X. Zhang. 2006. Ecological responses of pelagic zooplankton and fish to seasonal hypoxia in the Northern Gulf of Mexico, Chesapeake Bay, and Lake Erie. Ocean Sciences Meeting, Honolulu, HA.
197. Roberts, J.J., T.O. Höök, **S.A. Ludsin**, S.A. Pothoven, and G. Milanowski. 2006. Hypoxia-mediated interactions between round goby and yellow perch in central basin of Lake Erie. American Fisheries Society, Lake Placid, NY. (poster)
198. Hand, C.H., **S.A. Ludsin**, J.E. Marsden, and B.J. Fryer. 2005. Micro-elemental analysis of statoliths as a tool for tracking stream origins of sea lamprey. American Fisheries Society, Anchorage, AK. (poster)
199. Hand, C.H., **S.A. Ludsin**, J.E. Marsden, and B.J. Fryer. 2005. Micro-elemental analysis of statoliths as a tool for tracking the stream origins of sea lamprey (*Petromyzon marinus*). Society of Environmental Toxicology and Chemistry Conference, Baltimore, MD. (poster)
200. Lowe, M.R., R.A. Wright, D.R. DeVries, **S.A. Ludsin**, and B.J. Fryer. 2005. Reconstructing patterns of habitat use of two fish species in the Mobile–Tensaw Delta using otolith microchemistry. American Fisheries Society, Anchorage, AK.
201. Roberts, J.J., T.O. Höök, **S.A. Ludsin**, and S.A. Pothoven. 2005. Hypoxia-mediated interactions between round goby and yellow perch in Lake Erie's central basin. Midwest Fish and Wildlife Conference, Indianapolis, IN. (poster)
202. **Ludsin, S.A.,** D.M. Mason, S.B. Brandt, X. Zhang, and M. Roman. 2004. A spatially explicit modeling evaluation of factors that regulate growth rate potential and distribution of bay anchovy in Chesapeake Bay. American Fisheries Society, Madison, WI.
203. Mora, C., P.M. Chittaro, P.F. Sale, J.P. Kritzer, and **S.A. Ludsin**. 2004. Determinants of diversity patterns of coral reef fishes. Ocean Sciences Meeting, Honolulu, HA.
204. Bartnik, S.E., T.B. Johnson, **S.A. Ludsin**, P.F. Sale, B.J. Fryer, and J.T. Tyson. 2003. Environmental influences on walleye YOY cohorts in Lake Erie. The 3rd International Percid Fish Symposium, Madison, WI.
205. **Ludsin, S.A.**, X. Zhang, L.W. Florence, M.R. Roman, and S.B. Brandt. 2003. A multi-scale analysis of factors that influence spatial distributions of bay anchovy in Chesapeake Bay. American Fisheries Society, Québec City, Canada.
206. **Ludsin, S.A.**, B.J. Fryer, J.B. Mion, E.F. Roseman, P.F. Sale, and R.A. Stein. 2002. Otolith microchemistry as a tool to identify stock structure in Lake Erie yellow perch. American Fisheries Society, Baltimore, MD.
207. **Ludsin, S.A.**, M.W. Kershner, F.J. Rahel, R.A. Stein, R.L. Knight, K.A. Kayle, and C.T. Knight. 1997. The Lake Erie fish community: a never-ending story of change. American Fisheries Society, Monterey, CA.
208. **Ludsin, S.A.**, and D.R. DeVries. 1994. A mechanistic approach to understanding first-year growth and survival of largemouth bass *Micropterus salmoides*: the role of hatch date, gizzard shad *Dorosoma cepedianum*, and overwinter mortality. Ecological Society of America, Knoxville, TN.
209. **Ludsin, S.A.**, and D.R. DeVries. 1994. Size-dependent overwinter mortality of young-of-year largemouth bass. Alabama Fisheries Association, Gulf Shores, AL.

Local (State & University) Meetings (Contributed; N = 33)

1. Foley, A.D., K. Green, M.T. Kato, and **S.A. Ludsin**. 2026. Understanding spatial variation of crustacean zooplankton during the larval Yellow Perch production period in central Lake Erie. Ohio Chapter of the American Fisheries Society, Newport, KY. (poster)
2. Geller, K.A., K.B. Wilson, and **S.A. Ludsin**. 2026. Diet Selectivity of Yellow Perch in Western Lake Erie in the Presence of the Non-native *Bythotrephes longimanus.* Ohio Chapter of the American Fisheries Society, Newport, KY. (poster)
3. Hall, J.W., A.D. Foley, M.T. Kato, and **S.A. Ludsin**. 2026. Central Lake Erie's fish community: Past and present. Denman Undergraduate Research Forum, OSU, Columbus. (poster)
4. Williams, D., and **S.A. Ludsin**. 2026. Good things to come? Walleye larvae captured above the former Ballville Dam site in the Sandusky. Ohio Chapter of the American Fisheries Society, Newport, KY. (poster)
5. **Ludsin, S.A.**, A. Foley, and J. Hood. 2026. Mechanistic insights into recruitment asynchrony in western and central Lake Erie's Yellow Perch populations. Ohio Chapter of the American Fisheries Society, Newport, KY.
6. Foley., A.D., E. Duskey, L.A. Bruckerhoff, J.M. Hood, P. Jenkins, and **S.A. Ludsin**. 2025. Understanding central Lake Erie Yellow Perch recruitment dynamics. Hayes Graduate Research Forum, OSU, Columbus. (poster)
7. Bentley, J., and **S. Ludsin**. 2024. Food web dynamics and ecological niche of Blue Catfish and other sport fish in Hoover Reservoir using stable isotopes. Ohio Chapter of the American Fisheries Society, Mt. Sterling, OH.
8. Foley, A.D., L.A. Bruckerhoff, J.M. Hood, and **S.A. Ludsin**. 2024. Understanding Lake Erie mechanisms that dictate fish recruitment success. Interdisciplinary Water Symposium, OSU, Columbus. (poster)
9. Gratz, S., J. Bentley, and **S. Ludsin**. 2024. Exploring spatial and seasonal stable isotope variation of Channel Catfish and Blue Catfish within a reservoir. Ohio Chapter of the American Fisheries Society, Mt. Sterling, OH.
10. Houpt, O.N., K.B. Wilson, and **S.A. Ludsin**. 2024. Understanding the impact of invasive *Bythotrephes longimanus* on Yellow Perch angling success in western Lake Erie. Denman Undergraduate Research Forum, OSU, Columbus. (poster)
11. Joseph, P., W. Shulack, and **S.A. Ludsin**. 2024. An otolith microchemical approach to determine Sandusky River contributions of recruits to Lake Erie's Walleye population before removal of the Ballville Dam. Denman Undergraduate Research Forum, OSU, Columbus. (poster)
12. Collins, M.G., J.A. Moreland, M.E. Angelina, J.D. Cannaday, **S.A. Ludsin**, E.A. Marschall, and T.M. Farmer. 2020. Does hypoxia affect yellow perch growth? Clemson University Undergraduate Research Forum, Clemson, SC.
13. Manubolu, M., and **S.A. Ludsin**. 2019. Development and assessment of methods for quantifying microcystins in fish tissues. 14th Annual International Scholar Research Exposition, OSU, Columbus. (poster)
14. Blawut, B., B. Wolfe, C. Moraes, S. Hale, R. Zweifel, D. Sweet, **S. Ludsin**, and M. Coutinho da Silva. 2018. Testicular harvest as a tool to increase milt availability in Sauger (*Sander canadensis*). College of Veterinary Medicine Research Day, Columbus. (poster)
15. Bobay, L.A., L.Z. Almeida, E.A. Marschall, and **S.A. Ludsin**. 2018. Toward examining climate effects on yellow perch recruitment: How do Lake Erie larval yellow perch diets vary within a year? Autumn Undergraduate Research Festival, OSU, Columbus. (poster)
16. Brown, T.A., D.A. Dippold, L.Z. Almeida, E.A. Marschall, and **S.A. Ludsin**. 2018. Evaluating basin-specific early growth rates as a Lake Erie walleye stock discrimination tool. Denman Undergraduate Research Forum, OSU, Columbus. (poster)
17. Blawut, B., B. Wolfe, C. Moraes, S. Hale, R. Zweifel, D. Sweet, **S. Ludsin**, and M. Coutinho da Silva. 2017. Use of hypertonic medium to cryopreserve Sauger (*Sander canadensis*) Spermatozoa. College of Veterinary Medicine Research Day, Columbus. *Best Student Poster*

18. Brown, T., M.E. Fraker, and **S.A. Ludsin**. 2017. Predator-prey space use in response to chemical cue exposures. Denman Undergraduate Research Forum, OSU, Columbus. (poster)
19. Hadick, S., R. Brodnik, I. Hamilton, M. Hodanbosi, and **S. Ludsin**. 2017. Coping with climate change: exploration of metabolic acclimation across generations in a trop fish. Denman Undergraduate Research Forum, OSU, Columbus. (poster) *Best Poster Award Runner-up*
20. Strahan, M., C. Becher, and **S.A. Ludsin**. 2017. Tag retention and mortality in inland reservoir channel catfish (*Ictalurus punctatus*). Denman Undergraduate Research Forum, OSU, Columbus. (poster)
21. Brown, T.A., M.E. Fraker, and **S.A. Ludsin**. 2016. Predator-prey behavioral dynamics: space use in response to chemical cue exposures. Natural and Mathematical Sciences Undergraduate Research Forum, OSU, Columbus. (poster)
22. Kua, A., A. McLaughlin, S.C. Keitzer, E. Hoskins, T. Arnold, I.M. Hamilton, R.M. Brodnik, and **S.A. Ludsin**. 2016. Experimental assessment of climate warming impacts on the behavior of a Lake Tanganyika fish. Denman Undergraduate Research Forum, OSU, Columbus. (poster)
23. Lee, S. X. Jiang, M. Manubolu, **S.A. Ludsin**, J.F. Martin, and J. Lee. 2016. Microcystin accumulation in fresh produce from contaminated irrigation water. Ohio Agricultural Research and Development Center Annual Research Conference, Columbus.
24. Kua, Z.X., A. McLaughlin, T. Arnold, E. Hoskins, I.M. Hamilton, R.M. Brodnik, and **S.A. Ludsin**. 2015. Temperature effect on the behavior of the Lake Tanganyika cichlid, *Julidochromis ornatus*. Natural and Mathematical Sciences Undergraduate Research Forum, OSU, Columbus. (poster)
25. Corey, M.M., K-.Y. Chen, E.A. Marschall, J.W. Olesik, and **S.A. Ludsin**. 2014. Otolith microchemistry as a tool to discriminate between river-spawning populations of walleye in Lake Erie. Natural and Mathematical Sciences Undergraduate Research Forum, OSU, Columbus. *Most outstanding poster, Organismal Biology Division.*
26. Hodanbosi, M.R., R.M. Brodnik, K.M. DeVanna, and **S.A. Ludsin**. 2014. Are life-history attributes and metabolic rate linked in the African cichlid, *Julidochromis ornatus*? Natural and Mathematical Sciences Undergraduate Research Forum, OSU, Columbus. (poster)
27. McLaughlin, A., R.M. Brodnik, **S.A. Ludsin**, T. Arnold, K.M. DeVanna, and I.M. Hamilton. 2014. Personality and Behavioral Syndromes in the African Cichlid *Julidochromis ornatus*. Natural and Mathematical Sciences Undergraduate Research Forum, OSU, Columbus. (poster)
28. Brodnik, R. L. Carreón-Martinez, B. Fryer, D.D. Heath, K. Pangle, J. Reichert-Nguyen, E. Roseman, and **S. Ludsin**. 2012. Stock structure in western Lake Erie's yellow perch fishery: quantifying contributions from the Lake St. Clair – Detroit River corridor. Denman Undergraduate Research Forum, OSU, Columbus. (poster)
29. Filbrun, J.E., D.A. Culver, and **S.A. Ludsin**. 2012. The role of palatable resource subsidies in ecosystems: artificial feeding in fish ponds. Hayes Graduate Research Forum, OSU, Columbus.
30. Lang, K.J., K.L. Pangle, J.D. Conroy, S. Goonewardena, and **S.A. Ludsin**. 2012. Hypoxia as a mediator of food web interactions and energy flow in reservoir ecosystems. Natural and Mathematical Sciences Undergraduate Research Forum, OSU, Columbus. (poster). *Most outstanding poster, Organismal Biology Division.*
31. Lang, K.J., K.L. Pangle, J.D. Conroy, S. Goonewardena, and **S.A. Ludsin**. 2012. Hypoxia as a mediator of food web interactions and energy flow in reservoir ecosystems. Denman Undergraduate Research Forum, OSU, Columbus. (poster)
32. Malinich, T., K. Pangle, and **S. Ludsin**. 2010. Prey-fish foraging behavior under varying conditions of predation risk and water clarity. Denman Undergraduate Research Forum, OSU, Columbus. (poster)
33. **Ludsin, S.A.**, and D.R. DeVries. 1994. Size-dependent overwinter mortality of young-of-year largemouth bass. Alabama Fisheries Association, Gulf Shores, AL.

ACADEMIC MENTORING

Post-doctoral Researcher Supervisor (N = 22, 2 current 20 past)

Current

1. Nayan Mallick (Ph.D. at University of South Carolina, Columbia), 2025-present
2. Kate Campbell (Ph.D. at Texas A&M University, Galveston), 2024-present

Past

1. Zachary Steele (Ph.D. at Old Dominion University), 2025-2026. (Current: Research Associate, University of Florida, Gainesville)
2. Shaley Valentine (Ph.D. at University of Illinois, Champagne), 2024-2025 (Current: Achieve Program Coordinator, Southern Illinois University, Carbondale, IL)
3. Kavitha Pathakoti (Ph.D. at Jawaharlal Technological University Hyderabad, India), 2023-2024. (Current: Toxicology Specialist, Saint-Gobain North America, Columbus)
4. Richard Budnik (Ph.D. at Bowling Green State University, Bowling Green, OH), 2020-2022. (Current: Program Head, Fish Contaminants Division, Ohio Environmental Protection Agency, Columbus)
5. James Sinclair (Ph.D. at Queen's University, Kingston, ON, Canada), 2019-2021. (Current: Post-doctoral Researcher, Division of River Ecology & Conservation, Senckenberg Research Institute and Natural History Museum, Germany).
6. Manjunath Manubolu (Ph.D. at Sri Venkateswara University, Tirupathi, India), 2015-2020. (Current: InfinixBio, OSU, Columbus).
7. Benjamin Marcek (Ph.D. at VIMS /College of William & Mary, VA), 2018-2019. (Current: Supervisory Fish Biologist, U.S. Fish & Wildlife Service, Carbondale, IL).
8. Joshua Stone (Ph.D. VIMS /College of William & Mary, VA), 2017-2018. (Current: Assistant Professor, University of South Carolina, SC).
9. Noel Aloysius (Ph.D. at Yale University, New Haven, CT), 2014-2017. (Current: Assistant Professor, University of Missouri, Columbia, MO).
10. Alex Chen (Ph.D. at OSU, Columbus), 2016-2017. (Current: Principal Data Scientist, Amgen Center for Observational Research, Riverside, CA)
11. Michael Fraker (Ph.D. at University of Michigan, Ann Arbor), 2012-2023 (Deceased: Research Program Manager, Michigan Sea Grant College Program, Ann Arbor, MI)
12. S. Conor Keitzer (Ph.D. at Purdue University, West Lafayette, IN), 2013-2016 (Current: Project Manager & Science Integrator, University of Maryland Center for Environmental Science, Annapolis, MD)
13. Cassandra May (Ph.D. at OSU), 2015. (Current: Lecturer, Clemson University, Clemson, SC)
14. Troy Farmer (Ph.D. at OSU), 2013-2014 (Current: Assistant Professor, Dept. of Forestry & Environmental Conservation, Clemson University, Clemson, SC)
15. Paul Hurtado (Ph.D. at Cornell University), 2011-2014 (Current: Assistant Professor, University of Nevada, Reno)
16. Kristen DeVanna (Ph.D. at University of Toledo), 2011-2014 (Current: Executive Assistant, Ohio Sea Grant College Program, Columbus)
17. Seyoum Gebremariam (Ph.D. at Washington State University), 2012-2014 (Current: Principal Limnologist, Metropolitan Water District Water Quality Laboratory, La Verne, CA)
18. Kevin Pangle, EEOB, 2007-2011 (Current: Professor, Central Michigan U, Mt. Pleasant, MI)
19. Geoff Hosack, EEOB, 2007-2008 (Current: Research Scientist, Australia's Commonwealth Scientific and Industrial Research Organisation, Hobart, Tasmania)
20. Hongyan Zhang, NOAA-GLERL, 2006-2007 (Current: Consultant, Eureka Aquatic Research, LLC, Ann Arbor, MI)

Graduate Student Advisor (N = 24, 4 current 20 past)

Ongoing

1. Manao Kato, M.S., EEOB, OSU, 2026-present
2. David Drinko, Ph.D., EEOB, OSU, 2025-present

3. Demetra Williams, Ph.D., EEOB, OSU, 2024-present
4. Kylee Wilson, Ph.D., EEOB, OSU, 2022-present

Past

1. Andrew Foley, M.S., EEOB, OSU, 2023-2025 (Current: Creel Survey Specialist, Ohio Division of Wildlife, Columbus)
2. Jacob Bentley, M.S., EEOB, OSU, 2023-2025 (Current: Research Associate, OSU) (Current: Fishery Research Biologist, Ohio Division of Wildlife, Hebron, OH)
3. Monica Woodruff, School for Environment and Sustainability, University of Michigan, 2023-2025 (Co-advisor: Silvia Newell) (Current: Native Fishes Research Associate, Great Lakes Fishery Commission)
4. Salvatore Sidoti, Ph.D., EEOB, OSU, 2021-2023 (co-advisor: S. Gershman) (Current: Research Statistician, Center for Disease Control, Columbus)
5. Zoe Almeida, Ph.D., EEOB, OSU, 2016-2021 (co-advisor: E. Marschall) (Current: Senior Research Associate, Dept. of Natural Resources and Environment, Cornell University, Ithaca, NY)
6. Andrew Bade, Ph.D., EEOB, OSU, 2015-2021 (Current: Largemouth Bass Research Coordinator, Connecticut Dept. of Energy and Environmental Conservation, Hartford, CT)
7. David Dippold, Ph.D., EEOB, OSU, 2016-2020 (Current: Fisheries Biologist 2, Fish Passage Section, Pennsylvania Fish and Boat Commission, Bellefonte, PA)
8. Rebecca Dillon, Ph.D., EEOB, OSU, 2015-2020 (Current: Grants Manager, Princeton University, Princeton, NJ)
9. Ruth Briland, Ph.D., EEOB, OSU, 2011-2018 (Current: Environmental Supervisor in Modeling and Assessment, Ohio Environmental Protection Agency, Columbus)
10. Alex Chen, Ph.D., EEOB, OSU, 2010-2016 (co-advisor: E. Marschall) (Current: Principal Data Scientist, Amgen Center for Observational Research, Riverside, CA)
11. Reed Brodnik, M.S., EEOB, OSU, 2012-2015 (Current: Ph.D. Candidate, Chesapeake Biological Laboratory, University of Maryland Center for Environmental Science, Cambridge MD)
12. Cassandra May, Ph.D., EEOB, OSU, 2010-2015 (co-advisor: E. Marschall) (Current: Lecturer, Biological Sciences, Clemson University, Clemson, SC)
13. Troy Farmer, Ph.D., EEOB, OSU, 2008-2013 (co-advisor: E. Marschall) (Current: Assistant Professor, Forestry and Environmental Conservation, Clemson University, Clemson, SC)
14. Jesse Filbrun, Ph.D., EEOB, OSU, 2008-2013 (co-advisor: D. Culver) (Current: Assistant Professor, Biology, Eastern New Mexico University, Portales, NM)
15. Emily (Sopkovich) Burbacher, M.S., EEOB, OSU, 2008-2011(Current: Curriculum Coordinator, Ohio Sea Grant, Columbus)
16. Ruth Briland, M.S., EEOB, OSU, 2008-2010 (co-advisor: D. Culver) (Current: State Harmful Algal Bloom Specialist, Ohio Environmental Protection Agency, Columbus)
17. Erica Brumbaugh, M.S., Environmental Sciences, OSU, 2008-2010 (co-advisor: D. Culver) (Current: Adjunct Instructor, DeVry Education Group, Columbus College of Art & Design, Ohio Dominican University, Columbus)
18. Bryan Kinter, M.S., EEOB, OSU, 2008-2010 (Current: Fisheries Biologist, ODNR-DOW, Findlay)
19. Julie Reichert, M.Sc., Environmental Studies, University of Windsor, 2006-2009 (co-advisor: B. Fryer) (Current: Natural Resource Specialist, NOAA Chesapeake Bay Office, Silver Spring, MD)
20. Carrol Hand, M.Sc., Environmental Studies, University of Windsor, 2004-2006 (co-advisor: B. Fryer) (Current: Associate Council, Ocean Network Express, Arlington VA)

Graduate Student Committees (N = 45, 5 current, 40 past)

Ongoing

1. Sophia Holupka, M.S., EEOB, OSU, Columbus, 2026-present
2. Braden DeMattei, Ph.D., EEOB, OSU, Columbus, 2025-present
3. James Dowling, Ph.D., EEOB, OSU, Columbus, 2024-present
4. Seth Drake, Ph.D., EEOB, OSU, Columbus, 2024-present
5. Michaela Rogers, Ph.D., EEOB, OSU, Columbus, 2024-present

Past

1. Alisa Mancini, M.S., Environment and Natural Resources, OSU, Columbus, 2024-2025
2. Justin Furby, M.S., EEOB, OSU, Columbus, 2024-2025
3. Layne Gaynor, Ph.D., EEOB, OSU, 2020-2025
4. Isabella Montavon (formerly Bettinger), M.S., EEOB, OSU, 2022-2024
5. Alexandra Cabanelas Bermudez, M.S., EEOB, OSU, 2021-2023
6. Brian Tsuru, M.S., Environment and Natural Resources, OSU, 2021-2023
7. James Feller, Ph.D., EEOB, OSU, 2018-2022
8. Elizabeth Reagan, M.S., EEOB, OSU, 2019-2021
9. Bryan Blawut, Ph.D., Veterinary Preventative Medicine, OSU, 2017-2020
10. Scott Martin Ph.D., EEOB, OSU, 2018-2019
11. Cody Cardenas, M.S., EEOB, OSU, 2017-2018.
12. Chelsey Nieman, Ph.D., School of Environment and Natural Resources, OSU, 2015-2019.
13. Amara Huddleston, M.S., EEOB, OSU, 2015-2018.
14. Kaitlin Kinney, M.S., School of Environment and Natural Resources, OSU, 2015-2017
15. Matthew Holding, Ph.D., EEOB, OSU, 2013-2017
16. Bryan Blawut, M.S., Veterinary Preventative Medicine, OSU, 2015-2016
17. Zoe Almeida, M.S., Forestry and Natural Resources, Purdue University, 2014-2016
18. Sarah Smiley, Ph.D., EEOB, OSU, 2012-2016
19. Andreas Culbertson, M.S., Food, Agriculture, and Biological Engineering, 2014-2015
20. Anthony Fries, Ph.D., EEOB, OSU, 2011-2015
21. David Wituszynski, MS, Food, Agricultural, and Biological Engineering, 2013-2014
22. Alicia Campbell, MS, Environmental Sciences, OSU, 2012-2013
23. Jahn Kallis, Ph.D., EEOB, OSU, 2009-2013
24. Nathan Manning, Ph.D., Earth, Ecological & Environmental Sciences, University of Toledo, 2007-2013
25. Thomas Evans, M.S., Evolution, Ecology & Organismal Biology, OSU, 2009-2012
26. Paul Nunley, Ph.D., EEOB, OSU, 2008-2012
27. Lucia Carreon-Martinez, Ph.D., Environmental Sciences, University of Windsor, 2006-2012
28. Jhonatan Sepulveda Villet, Ph.D., Environmental Sciences, University of Toledo, 2006-2011
29. Christina Back, M.S., EEOB, OSU, 2008-2010
30. Paris Collingsworth, Ph.D., EEOB, OSU, 2004-2009
31. James Roberts, Ph.D., School of Natural Resources, University of Michigan, 2006-2009
32. Todd Hayden, Ph.D., Biological Sciences, Bowling Green State U, 2006-2009
33. Adam Thompson, M.S., Evolution, Ecology & Organismal Biology, OSU, 2007-2009
34. Nick Legler, M.Sc., Environmental Sciences, University of Windsor, 2006-2009
35. Colleen Wellington, M.S., Earth, Ecological and Environmental Sciences, University of Toledo, 2006-2008
36. Jennell Bigrigg, M.S., Evolution, Ecology & Organismal Biology, OSU, 2004-2008
37. Michael Lowe, M.S., Fisheries & Allied Aquacultures, Auburn U, 2004-2007
38. Chelsea Lumb, M.Sc., Biological Sciences, University of Windsor, 2003-2005
39. Sarah Bartnik, M.Sc., Biological Sciences, University of Windsor, 2003-2005
40. Jim Bales, M.S., Biological Sciences, Bowling Green State U, 2003-2004

Undergraduate Student Advisor/Host (N = 76, 1 current, 76 past)

Ongoing

1. Peyton Marks, (honors thesis), Environment and Natural Resources, OSU, 2026-present

Past

1. Theo Henderson-Lanzarone, Biology, OSU, 2026
2. Katelyn Johnson, Neuroscience, OSU, 2026
3. Tiara Kidd, Biology, OSU, 2025-2026
4. Kayla Geller (honors thesis), Environment and Natural Resources, OSU, 2024-2026
5. Jack Hall, Biology, OSU, 2024-2026
6. Daessm Fischer, Biology, OSU, 2025
7. Lyndy Brambilla (thesis), Environment and Natural Resources, OSU, 2024-2025
8. Neiko Mancini, EEOB, OSU, Columbus, 2024-2025
9. Emma Ficorilli (thesis), EEOB, OSU, Columbus, 2024-2025
10. Olivia Houpt (thesis), EEOB, OSU, Columbus, 2023-2024
11. Paula Joseph (thesis), EEOB, OSU, Columbus, 2022-2024
12. Jacob Bentley (thesis), EEOB, OSU, Columbus, 2020-2023
13. Kristina Fite (thesis), Environment & Natural Resources, OSU, Columbus, 2019-2023
14. Anna Nash, EEOB, OSU, Columbus, 2020-2022
15. Chad Harris, EEOB, OSU, Columbus, 2019-2021
16. Luke Bobay (honors thesis), Environment & Natural Resources, OSU, Columbus, 2017-2021
17. John Duhigg, EEOB, OSU, Columbus, 2020-2021
18. Brady Rude (thesis), EEOB, OSU, Columbus, 2020-2021
19. Conor Lovell, Environment & Natural Resources, Columbus, 2019-2020.
20. Anthony Ursetti, EEOB, Columbus, 2019-2020
21. Madeline Burke, Biology, Columbus, 2019
22. Samantha Meyer, EEOB, OSU, Columbus, 2018-2019
23. Kate Scott, EEOB, OSU, Columbus, 2017
24. Taylor Brown (thesis), EEOB, OSU, Columbus, 2016-2018; (co-advised with M. Fraker)
25. Stephen Hadick (honors thesis), EEOB, OSU, Columbus, 2016-2017
26. Madelyn Strahan (thesis), EEOB, OSU, Columbus, 2016-2017
27. Alex Kua (honors thesis), EEOB, OSU, 2014-2016
28. Joe Dillon, EEOB, OSU, Columbus, 2015-2016
29. Kelli Ames, Environment and Natural Resources, OSU, Columbus, 2015
30. Erin Banaag, Marine, Freshwater and Environmental Biology, Ohio University, Athens, 2015.
31. Anissa Powell (thesis), EEOB, 2015
32. Katie Clemons (thesis), EEOB, OSU, 2014-2015
33. Hannah Holl, Environment and Natural Resources, OSU, Columbus, 2014-2015
34. Adam Ares, EEOB, OSU, Columbus, 2014
35. Amy Dursiek, Environment and Natural Resources, OSU, Columbus, 2014
36. Kelsey Schultz, Biology, OSU, Columbus, 2014
37. Mike Wilhelm, Biology, OSU, Columbus, 2014
38. Tyler Arnold, EEOB, Columbus, 2013-2014
39. Morgan Corey, EEOB, (honors thesis), OSU, Columbus, 2013-2014
40. Matt Hodanbosi, EEOB (honors thesis), OSU, Columbus, 2013-2014
41. Matthew Manor, Environment and Natural Resources, OSU, Columbus, 2013-2014
42. Robert Medberry, Environment and Natural Resources, OSU, Columbus, 2013-2014
43. Allison McLaughlin, EEOB, OSU, 2013-2014 (co-advised with I. Hamilton)
44. Chelsea Coble, EEOB, Columbus, 2013
45. Brad Noskowiak, EEOB, OSU, Columbus, 2013
46. Jim Palus, Environment and Natural Resources, OSU, Columbus, 2013
47. Lauren Ustaszewski, Environment and Natural Resources, OSU, Columbus, 2013
48. Benita Wu, Biology, OSU, Columbus, 2013

49. Luke Birk, Biology, OSU, Columbus, 2012
50. John Boudouris, EEOB, OSU, Columbus, 2012
51. Thomas Peterson, EEOB, OSU, Columbus, 2012
52. Chelsea Schmit, EEOB, OSU, Columbus, 2012
53. Kendra Siefer, Molecular Genetics, OSU, Columbus, 2012
54. Reed Brodnik, EEOB (honors thesis), OSU, 2011-2012
55. Kathryn Lang, EEOB, OSU (honors thesis), 2011-2012
56. Ben Bolam, EEOB, OSU, 2011.
57. Melinda Varney, EEOB, OSU, Columbus, 2011
58. Christopher French, EEOB, OSU, 2010-2011
59. Austin Gerber, EEOB, OSU, 2010
60. Jason Gilliland, Biology, 2010
61. Adam Kushner, SNRE, OSU, 2010
62. Elizabeth Marchio, EEOB, OSU, 2010
63. Timothy Malinich, EEOB, OSU, 2009-2010
64. Matthew Shanks, EEOB, OSU, 2008-2009
65. Krista Latta, University of Michigan, 2007-2008
66. Jennifer Metes, School of Natural Resources and Environment, University of Michigan, 2007
67. Alex Bajcz, UROP, University of Michigan, 2006-2007
68. Sam Upton, UROP, University of Michigan, 2006-2007
69. Christopher Rae, UROP, University of Michigan, 2005-2007
70. Grace Milanowski UROP, University of Michigan, 2006-2007
71. David Jablonski, UROP, University of Michigan, 2006
72. Emily Swab, UROP, University of Michigan, 2005-2006
73. Lara Ghisleni, UROP, University of Michigan, 2005-2006
74. Elizabeth Graham (thesis), School of Natural Resources and Environment, University of Michigan, 2004
75. Heidi (Shoup) Mack (honors thesis), Zoology, OSU, 1996-1998
76. William Pine, Fisheries and Allied Aquacultures, Auburn University, 1994-1998

High School Advisor/Host

1. St. Charles Preparatory School, 2014-2026 (1-3 students per year)
2. Dylan Bright, Briarcliff High School, 2020 (sponsor of science project)
3. Thomas Worthington High School, 2017 (1 student)

PUBLIC OUTREACH ACTIVITIES

Guest Lecturer/Presenter

- OSU, EEOB 881/8894, 2008-2023
- 5th Grade Science Class, Bexley Elementary School, 2021
- OSU, Veterinary Preventative Medicine (VPM) 7775, 2019
- 6th Grade Science Class, Worthington Estates Elementary School, 2017
- Buckeye Friends of Stone Lab, Columbus, 2016
- OSU, MBI Summer Undergraduate Program, Columbus, 2014-2015
- OSU, EEOB 8896, 2014
- Purdue University, Forestry and Natural Resources, West Lafayette, IN, 2011
- OSU, RUMBA Program, 2009
- University of Michigan, School of Natural Resources, Ann Arbor, 2007
- Eastern Michigan University, Limnology Class, 2006
- Robotics Club (K-12 students), Ann Arbor, MI, 2005
- Monroe Public High School, Monroe, MI, 2005
- Bowling Green State University, Limnology Class, 2004-2006
- University of Windsor, Biological Sciences, Windsor, ON, Canada, 2001

Public Lecturer

- Ohio Sea Grant Charter Captains Meeting, Gibraltar Island, OH, 2019, 2024
- Expedition Club. Columbus, 2019
- Dublin AM Rotary Club. Muirfield Village, OH, 2019
- Upper Arlington Rotary Club. Upper Arlington, OH, 2019
- Old North High Club. Columbus, 2018
- Rotary Club. Columbus, 2018
- Trout Unlimited. Wooster, OH, 2018
- Lakeside Chautauqua Environmental Stewardship Educational Seminar Series, Lakeside, OH, 2013

Other Outreach Activities

Co-organizer of High School Student Shadowing Visit. Delaware Community Center Wildlife Program. Hazel Collins, November 2023

Co-organizer of Museum of Biological Diversity Open House. OSU, Columbus, 2017-2018

- Helped organize multiple interactive exhibits on aquatic food webs (~1,200 visitors)

Co-coordinator of high school student research internships. OSU, Columbus.

- St. Charles Preparatory School, Columbus, summer 2014-2018 (2-3 students per year)

K-12 Education Panel Member. Worthington, OH, 2017

- Elevate: A Worthington Community Conversation on Creativity, Innovation, and Education

Co-coordinator/presenter of student visits. Aquatic Ecology Laboratory, OSU, Columbus

- Indianola K-8 (~30 students), Columbus, 2016, 2022
- Columbus Academy High School (~15 students), Columbus, 2016
- OSU Mathematical Biosciences Institute Undergraduate Program (22 students), Columbus, 2010
- Women in Science Day (~60 students), 1997, 2010
- Higher Education Council of Columbus (44 students), 1996
- Columbus Alternative High School (~30 students), 1995

NOAA Ocean Sciences Bowl Volunteer, University of Michigan, Ann Arbor, MI, 2003-2006

Scientific Panel Member, Society of Environmental Journalists meeting, Austin, TX, 2005

Science fair judge/volunteer

- Worthington Estates Elementary School, 2017-2019
- Worthington Kilbourne High School, 2015, 2017
- St. Agatha Middle School, Columbus, 1994-2000