

Justin P. Davis

Fisheries Biologist

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Education

- 2005-present PhD Candidate, Department of Ecology and Evolutionary Biology, University of Connecticut, Storrs CT
- 2004 M.S. Natural Resources Management, Department of Natural Resources Management and Engineering, University of Connecticut, Storrs CT
- 1999 B.S. Marine and Freshwater Biology, University of New Hampshire, Durham NH

Professional Experience

- 08/07-present Fisheries Biologist, CT DEEP Inland Fisheries Division, Eastern District Headquarters, Marlborough CT
- 01/07-05/07 Teaching Assistant, Biology of Fishes (EEB 200), Department of Ecology and Evolutionary Biology, University of Connecticut, Storrs CT
- 01/05-05/05 Teaching Assistant, Biology of Fishes (EEB 200), Department of Ecology and Evolutionary Biology, University of Connecticut, Storrs CT
- 01/05-07/07 Graduate Research Assistant, Department of Ecology and Evolutionary Biology, University of Connecticut, Storrs CT
- 03/02-12/04 General Worker, CT DEP Inland Fisheries Division, Eastern District Headquarters, Marlborough CT
- 08/02-12/02 Teaching Assistant, Environmental Science (NRME 100), Department of Natural Resources Management and Engineering, University of Connecticut, Storrs CT
- 08/02-12/04 Graduate Research Assistant, Department of Natural Resources Management and Engineering, University of Connecticut, Storrs CT
- 03/01-09/01 Seasonal Resource Assistant, CT DEP Inland Fisheries Division, Diadromous Fisheries Program, Old Lyme CT
- 03/00-09/00 Seasonal Resource Assistant, CT DEP Inland Fisheries Division, Diadromous Fisheries Program, Old Lyme CT
- 10/99-02/00 Research Technician, Center for Cancer Research, Massachusetts Institute of Technology, Cambridge MA
- 06/99-08/99 Aquaculture Intern, Edgerton Research Laboratory, New England Aquarium, Boston MA
- 09/97-12/98 Research Assistant, Jackson Estuarine Laboratory, University of New Hampshire, Durham NH

Professional Activities

Professional Society Service

- 2015 First Vice President, Northeastern Division, American Fisheries Society

- 2015 Membership Committee, American Fisheries Society
- 2014-2015 Chairman, John Moring Student Travel Award Committee, Northeastern Division, American Fisheries Society
- 2008, 2015 Chairman, Student Presentation and Poster Judging Committee, Northeastern Division, American Fisheries Society
- 2007-2008 President, Southern New England Chapter, American Fisheries Society
- 2007 Chairman, Organizing Committee for Student Colloquium, Annual Meeting of American Fisheries Society, San Francisco CA
- 2006-2007 President-Elect, Southern New England Chapter, American Fisheries Society
- 2006-2007 President, Student Subsection, American Fisheries Society
- 2006 Mentor, Hutton Junior Fisheries Biology Program, American Fisheries Society
- 2005-2006 Secretary/Treasurer, Southern New England Chapter, American Fisheries Society
- 2005-2006 President-Elect, Student Subsection, American Fisheries Society
- 2004-2012 Chairman, Student Affairs Committee, Southern New England Chapter, American Fisheries Society
- 2003-2005 Northeastern Division Rep., Student Subsection, American Fisheries Society
- 2003-2012 Board of Directors, Southern New England Chapter, American Fisheries Society

Professional Committee Service

- 2015 Planning Committee, 72nd Annual Northeastern Fish and Wildlife Conference in Annapolis, MD
- 2012-present Represented CT DEEP at multiple meetings of a committee of scientists, state and municipal elected officials, and lake association members to address management of Lower Bolton Lake in Bolton, CT; also participated in multiple public informational meetings.
- 2012 CT DEEP Website Consolidation Committee: participated in consolidation of CT PURA and CT DEEP websites, creation of new CT DEEP website interface
- 2011 CT DEEP IT Modernization Committee: participated in developing an IT Modernization Plan for CT DEEP in cooperation with IBM consulting team
- 2008 Connecticut Endangered Species Advisory Council, Taxonomic Advisory Committee: authored petition to list blueback herring as a State Species of Special Concern, participated in meetings to discuss petition

Continuing Education

- 2015 Atlantic States Marine Fisheries Commission “Introduction to Stock Assessment” Course (32 course hours, 3.2 CEUs)
- 2014 “Creating High Impact Meetings” Training, Hartford CT (3 course hours, 0.3 CEUs)
- 2014 “The Innovative and Successful Supervisor” Training, Old Lyme CT (7 course hours, 0.7 CEUs)
- 2010 “Writing Skills and Strategies” Course at Capital Community College, Hartford CT (18 course hours, 1.8 CEUs)

2005 “An Introduction to Ecological Modeling and Programming Using AD Model Builder” Course taught at 2005 Annual Meeting of the American Fisheries Society, Anchorage AK (16 course hours, 1.6 CEUs)

Manuscript Reviewer

Transactions of the American Fisheries Society, North American Journal of Fisheries Management

Publications

Peer-Reviewed Journal Articles

Ganias, K., Divino, J. N., Gherard, K. E., Davis, J. P., Mouchlianitis, F., and E. T. Schultz. 2015. A reappraisal of reproduction in anadromous alewives: determinate versus indeterminate fecundity, batch size, and batch number. *Transactions of the American Fisheries Society* 144: 1143-1158.

Hessenauer, J-M., Vokoun, J. C., Suski, C. D., Davis, J. P., Jacobs, R., and E. O'Donnell. 2015. Differences in the metabolic rates of exploited and unexploited fish populations: a signature of recreational fisheries induced evolution? *PLoS One* 10: e0128336.

Hessenauer, J-M., Vokoun J. C., Davis, J. P., O'Donnell, E., and R. Jacobs. 2014. Population characteristics of historically unexploited largemouth bass in Southern New England water supply reservoirs. *Freshwater Ecology* 29: 429-439.

Davis, J. P., Schultz, E. T., and J. C. Vokoun. 2012. Striped bass consumption of blueback herring during vernal riverine migrations: does relaxing harvest restrictions on a predator help conserve a prey species of concern? *Marine and Coastal Fisheries: Dynamics, Management, and Ecosystem Science* 4:239-251.

Davis, J. P., and E. T. Schultz. 2009. Temporal shifts in demography and life history of an anadromous alewife population in Connecticut. *Marine and Coastal Fisheries: Dynamics, Management, and Ecosystem Science* 1:90-106.

Dissertation

Davis, J. P. In preparation. Population and trophic dynamics of blueback herring and striped bass in the Connecticut River. PhD dissertation. University of Connecticut, Storrs, CT. Expected completion in 2016.

Thesis

Davis, J. P. 2004. Analysis of anadromous alewife (*Alosa pseudoharengus*) and blueback herring (*A. aestivalis*) runs in Connecticut. M. S. thesis. University of Connecticut, Storrs, CT.

Technical Reports (Final Reports only, excluding Annual Progress Reports)

Davis, J. P., T. J. Barry, N. T. Hagstrom, and C. McDowell. 2011. Angler survey of the Connecticut River and Candlewood Lake: Connecticut River angler survey. Connecticut Department of Environmental Protection, Bureau of Natural Resources, Inland Fisheries Division. Federal Aid to Sportfish Restoration F-57-R-29 Final Segment Report. 115 pp.

- Hagstrom, N. T., J. P. Davis, G. Leonard, and C. McDowell. 2011. Channel catfish management in Connecticut waters. Connecticut Department of Environmental Protection, Bureau of Natural Resources, Inland Fisheries Division. Federal Aid to Sportfish Restoration F-57-R-29 Final Segment Report. 80 pp.
- Machowski, E., C. McDowell, J. P. Davis, and T. J. Barry. 2011. Northern pike management. Connecticut Department of Environmental Protection, Bureau of Natural Resources, Inland Fisheries Division. Federal Aid to Sportfish Restoration F-57-R-29 Final Segment Report. 104 pp.
- O'Donnell, E. B., R. P. Jacobs, T. J. Barry, J. P. Davis, W. Foreman, G. H. Leonard, and C. McDowell. 2011. Monitoring warmwater fish populations in lakes, ponds and large rivers, and assessment of new bass regulations. Connecticut Department of Environmental Protection, Bureau of Natural Resources, Inland Fisheries Division. Federal Aid to Sportfish Restoration F-57-R-29 Final Segment Report. 163 pp.
- Leonard, G., E. B. O'Donnell, C. McDowell, and J. P. Davis. 2011. Walleye management. Connecticut Department of Environmental Protection, Bureau of Natural Resources, Inland Fisheries Division. Federal Aid to Sportfish Restoration F-57-R-29 Final Segment Report. 35 pp.
- Barry, T. J., N. T. Hagstrom, C. McDowell, and J. P. Davis. 2011. Angler survey of the Connecticut River and Candlewood Lake: Candlewood Lake. Connecticut Department of Environmental Protection, Bureau of Natural Resources, Inland Fisheries Division. Federal Aid to Sportfish Restoration F-57-R-29 Final Segment Report. 34 pp.
- Hagstrom, N. T., R. D. Orciari, T. J. Barry, M. Humphreys, and J. P. Davis. 2011. Trout management areas. Connecticut Department of Environmental Protection, Bureau of Natural Resources, Inland Fisheries Division. Federal Aid to Sportfish Restoration F-57-R-29 Final Segment Report. 97 pp.
- Davis, J. P., E. T. Schultz, and J. C. Vokoun. 2009. Assessment of river herring and striped bass in the Connecticut River: abundance, population structure, and predator/prey interactions. Final report. Submitted to Connecticut Department of Environmental Protection. 92 pp.
- Davis, J. P., E. T. Schultz, and J. C. Vokoun. 2009. Estimating predation on declining river herring: tag-recapture study of striped bass in the Connecticut River. Final report. Submitted to Connecticut Department of Environmental Protection, Long Island Sound Fund. 42 pp.
- Davis, J. P., and E. T. Schultz. 2006. Assessment of anadromous alewife and blueback herring populations in Connecticut coastal streams and Connecticut River tributaries. Final report. Submitted to Connecticut Department of Environmental Protection. 108 pp.

Non-Technical

- Davis, J. P. 2011. Striped bass: a Connecticut comeback story. Connecticut Wildlife 31:6-7.
2014. Q&A: the 2014 Emerging Leaders. Fisheries 39: 312-315.

External Grants

- 2006 Connecticut Department of Environmental Protection, Long Island Sound Fund. Estimating predation on declining river herring: tag-recapture study of striped bass in the Connecticut River. (1 yr., \$25,000)
- 2005 Connecticut Department of Environmental Protection, State Wildlife Grant. Assessment of river herring and striped bass in the Connecticut River: abundance, population structure, and predator/prey interactions. (3 yr., \$ 230,233)

Awards and Honors

- 2014 Emerging Leader Mentorship Award, American Fisheries Society
- 2010 Frederick Stoye Best Student Paper Award (Conservation), Annual Meeting, American Society of Ichthyologists and Herpetologists
- 2010 Ned Taft Student Travel Award, Bioengineering Section of American Fisheries Society
- 2010 John Moring Student Travel Award, Northeastern Division of American Fisheries Society
- 2008 Certificate of Appreciation, Southern New England Chapter of American Fisheries Society
- 2007 Special Achievement Award, Southern New England Chapter of American Fisheries Society
- 2005 Best Fisheries Student Presentation Award from Northeastern Division of American Fisheries Society, Northeast Fish and Wildlife Conference
- 2005 Saul Saila Best Student Presentation Award, Winter Meeting, Southern New England Chapter of American Fisheries Society
- 2004 Best Fisheries Student Presentation Award from Northeastern Division of American Fisheries Society, Northeast Fish and Wildlife Conference
- 2004 Housatonic Fly Fishermen Assoc. Ed Cluck Memorial Scholarship

Invited and Contributed Presentations

- 04/15 Northeast Fish and Wildlife Conference, Newport RI
- 08/14 Annual Meeting, American Fisheries Society, Quebec City, Quebec CAN (three presentations)
- 06/14 Meeting of the Connecticut Fisheries Advisory Council, Derby CT
- 04/14 Northeast Fish and Wildlife Conference, Portland ME
- 04/14 Meeting of the Connecticut Conservation Advisory Council, Hartford CT
- 03/14 Connecticut Conference on Natural Resources, Storrs CT
- 01/14 Winter Meeting, Southern New England Chapter, American Fisheries Society, Hadley MA
- 03/12 Connecticut Conference on Natural Resources, Storrs CT
- 01/12 Winter Meeting, Southern New England Chapter, American Fisheries Society, Narragansett RI
- 03/11 Connecticut Conference on Natural Resources, Storrs CT
- 02/11 Connecticut River Atlantic Salmon Commission Research Forum, Hadley MA

09/10 Annual Meeting, American Fisheries Society, Pittsburgh PA

07/10 Annual Meeting, American Society of Ichthyologists and Herpetologists, Providence RI

04/10 Northeast Fish and Wildlife Conference, Boston MA

01/10 Winter Meeting, Southern New England Chapter, American Fisheries Society, Groton CT

06/08 Summer Meeting, Southern New England Chapter, American Fisheries Society, Storrs CT

04/08 Northeast Fish & Wildlife Conference, Galloway NJ (two presentations)

03/08 Connecticut Conference on Natural Resources, Storrs CT

01/08 Winter Meeting, Southern New England Chapter, American Fisheries Society, Leominster MA

04/07 Northeast Fish and Wildlife Conference, Mystic CT

03/07 Connecticut Conference on Natural Resources, Storrs CT

02/07 Connecticut River Atlantic Salmon Commission Research Forum, Hadley MA

08/06 Regional River Herring Workshop, Old Lyme CT

12/05 Tri-State River Herring Workshop, Narragansett RI

09/05 Annual Meeting, American Fisheries Society, Anchorage AK

07/05 Annual Meeting, American Soc. of Ichthyologists and Herpetologists, Tampa FL

04/05 Northeast Fish and Wildlife Conference, Virginia Beach VA

03/05 Northeast Ecology and Evolution Conference, Penn State University, State College PA

02/05 Graduate Research Forum, Department of Ecology and Evolutionary Biology, University of Connecticut, Storrs CT

01/05 Winter Meeting, Southern New England Chapter, American Fisheries Society, Auburn MA

08/04 Annual Meeting, American Fisheries Society, Madison WI

05/04 Annual Meeting, American Society of Ichthyologists and Herpetologists, Norman OK (first-authored presentation, presented by co-author)

04/04 Northeast Fish and Wildlife Conference, Ocean City MD

04/04 Graduate Research Forum, Department of Natural Resources Management and Engineering, University of Connecticut, Storrs CT

03/04 Northeast Ecology and Evolution Conference, Univ. of Connecticut, Storrs CT

01/04 Winter Meeting, Southern New England Chapter, American Fisheries Society, Old Lyme CT

Public Outreach

08/15 Boat electrofishing demonstration and introduction to freshwater fish identification, J.N. Webster Boy Scouts Reservation, Ashford CT

10/14 Guest Lecturer, Introduction to Fisheries and Wildlife (NRE 2345), University of Connecticut, Storrs CT

04/14 CT DEEP Inland Fisheries Division Pre-Opening-Day Public Trout Stocking Event, Lake Wintergreen, Hamden CT

10/13 Guest Lecturer, Introduction to Fisheries and Wildlife (NRE 2345), University of Connecticut, Storrs CT

10/13 Guest Speaker, Connecticut River Academy, East Hartford CT

06/13 Guest Lecturer, Field Methods in Fish Biology (EEB 3898), University of Connecticut, Storrs CT

10/12 Represented CT DEEP Inland Fisheries Division at “Commissioner in Your Corner” public outreach event on Mattabeset River, Middletown CT

10/12 Guest Lecturer, Introduction to Fisheries and Wildlife (NRE 2345), University of Connecticut, Storrs CT

09/12 Guest Speaker, Griswold Fish & Game Club, Griswold CT

03/12 Guest Speaker, University of Connecticut American Fisheries Society Sub-Unit, Storrs CT

11/11 Guest Speaker, University of Connecticut Wildlife Society, Storrs CT

10/10 Guest Lecturer, Introduction to Fisheries and Wildlife (NRE 2345), University of Connecticut, Storrs CT

03/10 Represented CT DEEP Inland Fisheries Division at “Water, Wings & Fire” public outreach event, Windsor Locks, CT

10/08 Guest Lecturer, Fisheries Management (NRE 4335), University of Connecticut, Storrs CT

2008-present Represented CT DEEP Inland Fisheries Division at annual CT Hunting & Fishing Show and annual CT Boating Show, Hartford CT

05/07 Research featured on WFSB Channel 3 “Eyewitness News” special segment

09/06 Guest Lecturer, Introduction to Undergraduate Research (BIOL 2289), University of Connecticut, Storrs CT

07/06 Guest Speaker, Goodwin Conservation Center, Hampton CT

06/06 Research featured on New England Public Radio show “Field Notes”

2005-2010 Guest Speaker (annually), East Hampton High School, East Hampton CT

09/05 Guest Lecturer, Introduction to Undergraduate Research (BIOL 2289), University of Connecticut, Storrs CT

08/05 Guest Speaker, Goodwin Conservation Center, Hampton CT

09/04 Guest Speaker, meeting of Housatonic Fly Fishermen Assoc., Milford CT

06/04 Research featured in Hartford Courant article “Fish population declines are not easily explained”, June 14th 2004 Issue

09/03 Research featured in Natural New England Magazine article “All those alewife and no easy way to count them”, Issue #17 Fall 2003

2002-2009 Participant in Connecticut “Bioblitz” (2002, 2004, 2005, 2009)

08/01 Represented CT DEP Inland Fisheries Division Diadromous Fisheries Program at “Managers Day”, New London CT

Municipal Board Service

02/02-05/05 Shellfish Commissioner, Waterford Shellfish Commission, Waterford CT;
Treasurer 12/03-05/05

Certifications and Licenses

08/15	U.S.C.G. Licensed Captain (100 Ton Master) w/ Assistance Towing Endorsement
02/15	American Red Cross First Aid Certification
02/15	American Red Cross CPR Certification
04/06	U.S. Fish and Wildlife Service Electrofishing Certification
03/06	U.S. Department of Interior Motor Boat Operator Certification
08/95	NAUI Open Water SCUBA Certification