

# ABIGAIL JULIA LYNCH

U.S. Geological Survey  
National Climate Change and Wildlife Science Center  
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## EDUCATION

- Michigan State University** December 2013  
Ph.D. Fisheries and Wildlife; Ecology, Evolutionary Biology,  
and Behavior dual major; Environmental Science and Public Policy  
doctoral specialization; College Teaching certificate.
- Virginia Institute of Marine Science, College of William & Mary** January 2009  
M.S. Marine Science. A molecular analysis of Atlantic menhaden  
(*Brevoortia tyrannus*) stock structure.
- University of Virginia** May 2005  
B.A. English. B.S. Biology. Genetic analysis of margined madtom  
(*Noturus insignis*) to determine the conservation status of the spotted morph.

## PROFESSIONAL EXPERIENCE

- U.S.G.S. National Climate Change and Wildlife Science Center; Research Fishery Biologist** 2014-present
- **Research:** prepares scientific reports, authors peer-reviewed publications, and presents at scientific meetings. *Research topics include:* large-scale assessment of inland fisheries, ecological drought, small-scale fisheries, and connections between inland and marine systems.
  - **Coordination:** assists in management of NCCWSC inland fisheries and ecological drought projects and a global, cross-sectoral conference on inland fisheries.
- Michigan State University, Doctoral Student; University Distinguished Fellow** 2009-2013
- **Editor:** coordinated communication with authors and reviewers and provided editorial input on *three* independent book projects and one symposium proceedings journal volume.
  - **Student Career Experience Program:** served on the editorial staff of the U.S. Fish & Wildlife Service's Fisheries magazine, *Eddies*, and maintains outreach materials for the Branch of Communications & Partnerships, Division of Fisheries & Aquatic Resource Conservation.
  - **Study Abroad Program Instructor:** led the development, organization, and implementation of a study abroad course: *Environmental Science, Policy, and Criminology in Scotland and England*. 2011; 2013
  - **Climate Change Assistant to the Director of the Michigan Department of Natural Resources:** helped the Director implement recommendations from the Governor's Climate Change Action Council; represented the Department in climate-related forums including the Midwest Association of Fish and Wildlife Agencies' Climate Change Committee. 2009-2010
- U.S. Fish & Wildlife Service, Fish Biologist; John A. Knauss Sea Grant Fellow** Feb. 2008-Jan. 2009
- **National Fish Habitat Action Plan (NFHAP):** member of the NFHAP communications team, staffed senior NFHAP Board members and Federal Caucus representatives, and ushered the USFWS NFHAP manual chapter through to the Director.
  - **National Fish Passage Program (NFPP):** answered requests from Partners about NFPP project information, compiled NFPP accomplishments into a repository database, staffed NFPP briefings, and produced NFPP outreach material.

- **Fish and Wildlife Conservation Office (FWCO) communications:** developed the FWCO communications strategy, produced 12 factsheets and other outreach material, overhauled the FWCO website, and participated in outreach activities.
- **Department of the Interior Ocean, Coastal, and Great Lakes Program:** participated on DOI Ocean, Coastal, and Great Lakes Teams, produced department-wide presentation and outreach material, and staffed senior managers at DOI Ocean and Coastal Program retreat.
- **FWCO field work:** designated the "good will ambassador to the field," contributed to multiple field season projects.

## TEACHING EXPERIENCE

### **Mentorship**

- *Adjunct faculty member:* Michigan State University (2014-present)
- *Graduate Advisory Committee:* Janet Hsiao (MSU-2014-present)
- *Great Lakes Leadership Academy:* Betsey Riley (MSU; 2016)
- *Informal:* Rachel Ainsworth (University of Hull; 2016-present); Vivian Nguyen (Carleton University; 2014-present); So-Jung Youn (MSU; 2013-present); Kelsey Schlee (MSU; 2010-2014)

### **Academic Committees**

- USGS-MSU "science to action" fellowship review committee (2014-present)
- MSU William W. and Evelyn M. Taylor Endowed Fellowship for International Engagement in Coupled Human and Natural Systems reviewer (2015)

### **Program instructor**

- *Environmental Science, Policy, and Criminology in Scotland and England*, Summer 2013 (10 undergrad students)
- *Environmental Science, Policy, and Criminology in Scotland and England*, Summer 2011 (8 undergrad students)

### **Teaching assistant**

- *Global Issues in Fisheries and Wildlife*, Spring 2012 (10 grad and undergrad students)

### **Guest lectures**

- *Global Issues in Fisheries and Wildlife*, MSU, Spring 2016 (15 undergrad and grad students)
- *Future of Fisheries: Perspectives for Emerging Professionals*, University of Missouri, Spring 2016 (20 grad students)
- *Coupled Human and Natural Systems Seminar*, MSU, Fall 2013 (30 grad students)
- *Conservation Biology*, MSU, Spring 2013 (40 undergrad students)
- *Senior Policy Seminar*, MSU, Spring 2013 (12 undergrad students)
- *Fisheries Management*, MSU, Spring 2013 (20 undergrad students)
- *Honors Ecology*, MSU, Fall 2011 (30 undergrad students)

## PEER-REVIEWED PUBLICATIONS

- Lynch, A. J.**, S. J. Cooke, A. Deines, S. Bower, D. B. Bunnell, I. G. Cowx, V. M. Nguyen, J. Nonher, K. Phouthavong, B. Riley, M. W. Rogers, W. W. Taylor, W.M. Woelmer, S. Youn, T. D. Beard, Jr. 2016. The social, economic, and ecological importance of inland fishes and fisheries. *Environmental Reviews*. 24:1-8.
- Lynch, A. J.**, W. W. Taylor, T. D. Beard Jr., and B. M. Lofgren. 2015. Projected changes in Lake Whitefish (*Coregonus clupeaformis*) recruitment with climate change in the 1836 Treaty Waters of Lakes Huron, Michigan, and Superior. *Journal of Great Lakes Research*. 41(2): 415-422.

- Lynch, A. J.**, E. Varela-Acevedo, and W. W. Taylor. 2015. Decision-Support Tools for a Changing Climate: Application to Inland Fisheries Management. *Journal of Fisheries Management and Ecology*. 22(1):14-24.
- Youn, S.-J., W.W. Taylor, **A. J. Lynch**, I. G. Cowx, T. D. Beard Jr., D. M. Bartley, F. Wu. 2014. The importance of inland capture fisheries to global food security. *Global Food Security*. 3(3-4): 142-148.
- Cooke, S. J., R. Arlinghaus, D. M. Bartley, T. D. Beard Jr., I. G. Cowx, T. E. Essington, O. P. Jensen, **A. J. Lynch**, W. W. Taylor, and R. Watson. 2014. Where the waters meet: Sharing ideas and experiences between inland and marine realms to promote sustainable fisheries management. *Canadian Journal of Fisheries and Aquatic Sciences*. 71(10): 1593-1601.
- Lynch, A. J.**, W. W. Taylor, and K. D. Smith. 2010. The Influence of Changing Climate on the Ecology and Management of Selected Great Lakes Fisheries. *Journal of Fish Biology*. 77: 1964-1982.
- Lynch, A. J.** and W. W. Taylor. 2010. Evaluating a science-based decision support tool used to prioritize brook charr conservation project proposals in the eastern United States. *Hydrobiologia*. 650: 233-241.
- Lynch, A. J.**, J. R. McDowell, and J. E. Graves. 2010. A genetic assessment of the potential for local depletion of Atlantic menhaden (*Brevoortia tyrannus*) within Chesapeake Bay. *Fishery Bulletin*. 108: 87-97.
- Invited Reviewer:* Environmental Management, Fishery Bulletin, Journal of Ecology and the Natural Environment, Journal of Fish Biology, Journal of Fisheries Management and Ecology (Guest editor, 2011-2012), Journal of Great Lakes Research, Lakes & Reservoirs: Research and Management, Science, USGS internal reviewer

#### **BOOKS & BOOK CHAPTERS**

- Taylor, W. W., **A. J. Lynch**, and N. J. Leonard, eds. 2014. Future of Fisheries: Perspectives for Emerging Professionals. AFS Press: Bethesda, MD. 506 pp.
- Tanner, H. A. and **A. J. Lynch**. Fisheries Decision Making: Advice from the Introduction of Pacific Salmonids into the Great Lakes. Pages 371-376 in W. W. Taylor, **A. J. Lynch**, and N. J. Leonard, eds. Future of Fisheries: Perspectives for Emerging Professionals. AFS Press: Bethesda, MD.
- Lynch, A. J.** and J. Liu. 2014. Fisheries as Coupled Human and Natural Systems. Pages 459-466 in W. W. Taylor, **A. J. Lynch**, and N. J. Leonard, eds. Future of Fisheries: Perspectives for Emerging Professionals. AFS Press: Bethesda, MD.
- Taylor, W. W., **A. J. Lynch**, and N. J. Leonard, eds. 2013. Great Lakes Fisheries Policy and Management: A Binational Perspective (Second Edition). MSU Press: East Lansing, MI. 880 pp.
- Taylor, W. W., **A. J. Lynch**, and M. G. Schechter, eds. 2011. Sustainable Fisheries: Multi-Level Approaches to a Global Problem. AFS Press: Bethesda, MD. 377 pp.
- Lynch, A. J.**, C. M. Zuccarino-Crowe, W. W. Taylor, and E. A. Puchala. 2011. Sustainable Fisheries: An Overview Addressing a Global Problem. Pages XIII – XXIV in W.W. Taylor, **A. J. Lynch**, and M. G. Schechter, eds. Sustainable Fisheries: Multi-Level Approaches to a Global Problem. AFS Press: Bethesda, MD.

#### **ADDITIONAL PUBLICATIONS**

Regular contributor to [The Fisheries Blog](#) and [Fishionary blog](#).

**Lynch, A. J.** 2016. No damsel in distress. *Fisheries*. 41(1):10-11

**Lynch, A. J.** 2013. Plenary Talk—Dr. Kelly F. Millenbah. 143rd Annual Meeting Wrap Up: Thank You Little Rock. *Fisheries* 38(12):554-555.

**Lynch, A. J.** 2013. WINNER: One Fish, Two Fish, Where Fish for Whitefish? *Fisheries* 38(8):356.

**Lynch, A. J.** 2013. Leviathan Lahontans Launch a Come Back. *Eddies*. 5(3):12-15.

- Lynch, A. J.** and W. W. Taylor 2013. The Four Fs of Fish: Communicating the Public Value of Fish and Fisheries. *Fisheries*. 38(1): 43-33.
- Lynch, A. J.** 2012. A Dinosaur Fish Swims on through Deep Time. *Eddies*. 5(1):16-18. 2013. *MSU Fisheries & Wildlife SPOTLIGHT* magazine. 9: 28-29.
- Lynch, A. J.** 2011. Forging New Perspectives of Fisheries Science and Management. *Fisheries*. 36(7): 353-354.
- Lynch, A. J.** 2011. Climate change and the climate of management. *MSU Fisheries & Wildlife SPOTLIGHT* magazine. 7: 20-21.
- Lynch, A. J.** and C. Higley. 2011. Hooking women into fisheries conservation. *MSU Fisheries & Wildlife SPOTLIGHT* magazine. 7: 12-13.
- Taylor, W. W., **A. J. Lynch**, and M. G. Schechter. 2010. Unsustainable Global Fisheries Need a Unified Call for a UN Conference. *Fisheries*. 35: 84-85.
- Kopeny, M. T., J. Grady, W. Matthews, S. R. Keller, and **A. J. Lynch**. June 2008. Conservation Status of the Spotted Form of the Margined Madtom, *Noturus insignis*: A Genetic, Morphological and Distributional Investigation. Final Report to Virginia Department of Inland Game and Fisheries.

### **SELECT FIRST AUTHOR PRESENTATIONS**

- Lynch, A. J.**, T. D. Beard, Jr., Z. Basher, Y.-C. Kao, D.B. Bunnell, M. W. Rogers, W. W. Taylor. Value of global inland fish production estimates to food security. October 2015. Global Conference on Food Security. Ithaca, New York. PRESENTED.
- Lynch, A. J.** Freshwater, fish, and the future: The importance of inland fisheries to food security. January 2015. Water For Food: Road to Expo 2015. U.S. Embassy to Italy, Consiglio Nazionale dell Ricerche, Centro Studi Americani. Rome, Italy. INVITED, INTERNATIONAL.
- Lynch, A. J.**, W. W. Taylor, T. D. Beard, and B. M. Lofgren. Projected changes in Lake Whitefish (*Coregonus clupeaformis*) recruitment with climate change in the 1836 Treaty Waters of Lakes Huron, Michigan, and Superior. August 2014. American Fisheries Society Annual Meeting. Quebec City, Canada. May 2014. International Association of Great Lakes Research Annual Meeting. Hamilton, Canada. INTERNATIONAL.
- Lynch, A. J.**, W. W. Taylor, and K. D. Smith. The Influence of Changing Climate on the Ecology and Management of Great Lakes Fisheries. July 2010. Fisheries Society of the British Isles Annual Meeting. Belfast, Ireland. INTERNATIONAL.
- Lynch, A. J.** and W. W. Taylor. Evaluating a science-based decision support tool to prioritize regionally-driven, community-based projects for enhancing brook charr populations in the eastern United States. November 2009. Eastern Brook Trout Joint Venture All Partners Meeting. Berkeley Springs, WV. INVITED.
- Lynch, A. J.**, J. R. McDowell, and J. E. Graves. A molecular analysis of Atlantic menahden (*Brevoortia tyrannus*) stock structure. August 2008. American Fisheries Society Annual Meeting. Ottawa, Canada. INTERNATIONAL.

### **AWARDS AND HONORS**

- USGS Performance Award.** 2014. 2015.
- American Fisheries Society Excellence in Public Outreach Award.** Annual communications/outreach award presented to [The Fisheries Blog](#) from the American Fisheries Society. 2015.
- Albert S. Hazzard Award.** Dissertation/thesis award to recognize excellence in student research in fisheries biology at a college or university in Michigan from the Michigan Chapter of the American Fisheries Society. 2014.
- Roderick Haig-Brown Award of Journalistic Excellence.** Communications/outreach award presented to [The Fisheries Blog](#) from the Washington-British Columbia Chapter of the American Fisheries Society. 2014.
- J. Frances Allen Scholarship.** Outstanding female doctoral student award from the American Fisheries Society. Lynch, Abigail Julia

2013.

- 1<sup>st</sup> place, American Fisheries Society Student Writing Contest.** Competitive submission to recognize excellence in the communication of fisheries research to the general public. 2013.
- Honorable Mention, John E. Skinner Memorial Fund Award.** Competitive American Fisheries Society travel award to present at the national meeting. 2013.
- Paul W. Rodgers Scholarship.** Competitive scholarship awarded by the International Association for Great Lakes Research to support the advancement of knowledge relating to Great Lakes aquatic ecosystem health and management. 2013.
- Coupled Human and Natural Systems Fellow.** Competitive travel award to present at the Ecological Society of American annual meeting. 2013.
- Michigan State University Graduate Student Study Abroad Fellowship.** Competitive fellowship program awarded to provide promising future study abroad program leaders with a mentored 'capstone' project. 2013.
- Dr. Howard A. Tanner Fisheries Excellence Fellowship.** Competitive award to recognize a graduate student committed to fisheries research related to the Great Lakes. 2013.
- Michigan State University Council of Graduate Students Disciplinary Leadership Award.** Endowed fellowship to recognize distinguished disciplinary leadership by graduate students across the university. 2013.
- Office of the Associate Provost for University Outreach and Engagement Travel Grant.** Travel grant awarded to attend Emerging Engagement Scholars Workshop and the National Outreach Scholarship Conference in Tuscaloosa, AL. 2012.
- Future Academic Scholars in Teaching Fellowship.** Competitive fellowship program awarded by the Michigan State University Graduate School to provide promising students with a mentored teaching-as-research project. 2012-2013.
- Clark Hubbs Research Assistance Award.** Travel award from the American Institute of Fishery Research Biologists to attend the American Fisheries Society Annual Meeting in St. Paul, MN (2012) and Pittsburg, PA (2010).
- Michigan Chapter American Fisheries Society Student Annual Meeting Travel Grant.** Competitive award from the Michigan Chapter of the American Fisheries Society to attend the Society Annual meeting. 2012.
- Red Cedar Fly Fishers Graduate Fellowship in Fisheries Management.** Competitive award from the Red Cedar Fly Fishers to assist in supporting a graduate student at Michigan State University who is pursuing a career in a fisheries-related field. 2012.
- Department of Fisheries and Wildlife Service Award.** Award from the Departmental Chair for graduate service to the Department. 2012; 2011; 2010.
- Environmental Science & Policy Program Travel Grant.** Competitive travel support awarded to attend and present at interdisciplinary conferences: the World Fisheries Congress (Edinburgh, UK) and American Fisheries Society Annual Meeting (Minneapolis, MN). 2012.
- Graduate School; Ecology, Evolutionary Biology, and Behavior Program; International Studies and Programs; and College of Agriculture and Natural Resources Travel Awards.** Travel award from Michigan State University to attend the World Fisheries Congress in Edinburgh, Scotland. 2012. Travel award from Michigan State University to attend the Fisheries Society of the British Isles Annual Meeting in Belfast, Ireland. 2010.
- Ambrose Pattullo Fund for Environmental Issues Graduate Fellowship in Literary Works.** Competitive award to recognize students who are interested in current environmental issues and who have written about these issues for possible publication in a literary outlet. 2012.
- Department of Fisheries and Wildlife Graduate Student Organization Travel Grant.** Competitive travel award from the Graduate Student Organization to present at the International Symposium on the Biology and Management of Coregonid Fishes: Mondsee, Austria. 2011.
- William W. and Evelyn M. Taylor Endowed Fellowship for International Engagement in Coupled Human and Natural Systems.** Selective award to provide awardee with the opportunity to significantly engage in

understanding the scientific and cultural challenges and opportunities in dealing with coupled human and natural systems with a global perspective. 2011.

**International Studies and Programs Predissertation Award.** Award from Michigan State University to conduct international research for dissertation development. 2011.

**Ecology, Evolutionary Biology, and Behavior Summer Fellowship.** 2011.

**Graduate School Research Enhancement Award.** Travel award from Michigan State University to study as a research associate with the Applied Environmental Decision Analysis Hub at University of Queensland, Australia. 2011. Travel award from Michigan State University to attend a competitively enrolled graduate climate change course at Lund University, Sweden. 2009.

**Theodore (Teddy) Roosevelt Conservation and Environmental Leadership Fellowship.** Award from Michigan State University to provide an opportunity for graduate students to achieve a level of professional and personal growth that will prepare them for leadership roles in natural resource and conservation based organizations and agencies. 2009-2010.

**University Distinguished Fellow.** Recruiting doctoral fellowship from Michigan State University. 2009.

**Janice Lee Fenske Excellence in Fisheries Management Fellow.** Competitive American Fisheries Society Michigan Chapter fellowship; recipient is jointly advised by a university and a fisheries management agency mentor. 2009.

**John A. Knauss Fellow.** Competitive marine policy fellowship; graduate students are matched with host offices in the legislative and executive branches of the Federal government. February 2008 – January 2009.

**2<sup>nd</sup> Place, Oral Paper.** American Fisheries Society, Tidewater Chapter Annual Meeting award: A genetic assessment of the potential for local depletion of Atlantic menhaden (*Brevoortia tyrannus*) within Chesapeake Bay. March 2008.

**School of Marine Science Assistantship.** Academically-based assistantship; full year of tuition and stipend at the Virginia Institute of Marine Science, College of William & Mary. Sept. 05 – Aug. 06.

**University of Virginia Dean's List.** 3.4 semester GPA or better with an approved course load of 12 or more graded credits. 2003 –2005.

**Sigma Tau Delta.** English Honor Society member. 2003 – *present*.

**University of Virginia Athletic Honor Roll, Atlantic Coast Conference Honor Roll.** 3.0 semester GPA or better with an approved course load of 12 or more graded credits. 2001 –2005.

**Echols Scholar.** Highly selective undergraduate program for “academic leaders and intellectual risk-takers” awarded by the University of Virginia Office of Admissions. 2001-2005.

**Howard Hughes Student Fellowship.** Nomination selection fellowship for undergraduates in the laboratory sciences; students complete extended research projects, including oral and poster presentations: *Histone deacetylase inhibition and regulation of epidermal growth factor receptor expression*, Center for Cancer Research, National Cancer Institute, NIH. 2001, 2002.

**Valedictorian; International Baccalaureate Diploma.** J.E.B. Stuart High School, Falls Church, Virginia. 2001.

## **GRANTS RECEIVED**

**U.S. AID AquaFish Feed the Future Grant: Burma.** Taylor, W. W., T. G. Beard, S. J. Cooke, I. G. Cowx, G. Johnstone, M.C. Lopez, **A. J. Lynch**, M. Phillips, J. B. Rose, K. M. Soe, F. Wu, F. Promoting sustainable inland aquatic systems in Burma: supply, livelihoods support, and regulation of ecosystem services. *In processing*.

**Michigan Coastal Community Development Grant.** **Lynch, A. J.** and W. W. Taylor. Designing an online decision support user-interface to communicate the impacts of climate change on Great Lakes Lake Whitefish (*Coregonus clupeaformis*). Michigan Sea Grant. \$5,000. Start 1 May 2013 end 30 April 2014.

**Great Lakes Climate Assessments Grant.** **Lynch, A. J.** and W. W. Taylor. Designing a decision support system for harvest management of Great Lakes Lake Whitefish (*Coregonus clupeaformis*) in a changing climate. Great Lakes Integrated Sciences and Assessments Center. \$30,000. Start 1 July 2011 end 31 Aug 2013.

**Virginia Saltwater Recreational Fishing Development Fund.** Graves, J., J. McDowell, R. Latour, and **A. Lynch.**  
 A genetic assessment of the potential for local depletion of Atlantic menhaden (*Brevoortia tyrannus*)  
 within Chesapeake Bay. Virginia Recreational Fishing Advisory Board. \$48,620. Start 1 January 2007,  
 end 31 December 2007.

**PROFESSIONAL SERVICE**

- |  |              |
|--|--------------|
| <b>American Fisheries Society External Affairs Committee</b>   | 2016-present |
| <ul style="list-style-type: none"> <li>• Assists in engaging the society interests to external partners and selects two annual society outreach awards</li> </ul>  |              |
| <b>American Fisheries Society Publications Awards Committee</b>  | 2015-present |
| <ul style="list-style-type: none"> <li>• Selects annual publication award for <i>Transactions of the American Fisheries Society</i></li> </ul>   |              |
| <b>Global Inland Fisheries Conference Organizing Committee</b>   | 2011-present |
| <ul style="list-style-type: none"> <li>• Assists in planning and coordination of cross-sectoral global conference and follow-up</li> </ul>   |              |
| <b>American Fisheries Society Membership Committee</b>   | 2013-present |
| <ul style="list-style-type: none"> <li>• Assists in addressing membership needs and concerns (<i>co-chair: 2013-present</i>)</li> </ul>  |              |
| <b>J Frances Allen Scholarship Review Committee</b>  | 2013-present |
| <ul style="list-style-type: none"> <li>• Reviews applications and selects annual recipient of the American Fisheries Society scholarship for “outstanding female doctoral student” (<i>chair: 2014</i>)</li> </ul>             |              |
| <b>Environmental Science and Policy Program Research Symposium Planning Committee</b>  | 2013         |
| <ul style="list-style-type: none"> <li>• Planned and executed inaugural, cross-college graduate research symposium</li> </ul>  |              |
| <b>MI Sea Grant Extension Program Coordinator Search Committee Student Representative</b>  | 2012-2013    |
| <ul style="list-style-type: none"> <li>• Provided input on position description, reviewed all applicant material, conducted interviews with top candidates, and made final recommendations for filling the position</li> </ul> |              |
| <b>Environmental Science and Policy Program Advisory Committee Student Representative</b>  | 2010-2013    |
| <ul style="list-style-type: none"> <li>• Provided critical advice to the ESPP director and associate director on matters related to the ESPP Graduate Program and degree specialization</li> </ul>                             |              |
| <b>Graduate Student Organization Research Symposium Planning Committee</b>   | 2010-2013    |
| <ul style="list-style-type: none"> <li>• Planned and executed annual graduate research symposium for the Department of Fisheries and Wildlife (<i>coordinator: 2011-2012</i>)</li> </ul>                                       |              |
| <b>Graduate Student Association Magazine Committee</b>   | 2009-2013    |
| <ul style="list-style-type: none"> <li>• Provided editorial input on magazine submissions and oversaw layout and production of student-run publication (<i>coordinator: 2011-2013</i>)</li> </ul>                              |              |
| <b>MSU Fly Gals Organizer</b>  | 2009-2013    |
| <ul style="list-style-type: none"> <li>• Planned annual instructional event to introduce female natural resource professionals to fly fishing (<i>coordinator: 2009-2010; mentor: 2010-2013</i>)</li> </ul>                    |              |
| <b>Great Lakes Leadership Academy Emerging Leaders Program Mentor</b>  | 2011- 2012   |
| <ul style="list-style-type: none"> <li>• Mentored a participant in the program about topics and issues covered within the program for professional growth and development</li> </ul>   |              |
| <b>Graduate Student Organization Community Outreach Committee</b>  | 2009- 2011   |
| <ul style="list-style-type: none"> <li>• Coordinated community outreach for the Department of Fisheries and Wildlife</li> </ul>  |              |
| <b>Graduate Student Association Vice President</b>   | 2006- 2008   |
| <ul style="list-style-type: none"> <li>• Coordinated with GSA President for VIMS GSA meetings and acts as the primary liaison for issues concerning graduate students at VIMS</li> </ul>                                       |              |
| <b>Blue Crab Bowl Official</b>   | 2006- 2008   |
| <ul style="list-style-type: none"> <li>• Volunteer for the regional National Ocean Science Bowl high school competition</li> </ul>   |              |
| <b>Marine Science Day Assistant</b>  | 2006- 2007   |
| <ul style="list-style-type: none"> <li>• Volunteer for the annual VIMS open house to the public</li> </ul>   |              |
| <b>Outlook on Ocean Science Instructor</b>   | 2005- 2007   |
| <ul style="list-style-type: none"> <li>• In-classroom experience presenting marine science topics to high school students</li> </ul>   |              |

- University of Virginia Varsity Women's Rowing Team** 2001- 2005
- NCAA Division I athlete; ACC Rowing Champion (2002-2005);  
NCAA 2<sup>nd</sup> place Rowing Team (2005)
- University of Virginia Cavalier Daily Production Staff** 2001- 2005
- Assistant Production Editor of the daily student-run publication (2002-2005)

### **PROFESSIONAL SOCIETIES AND COMMITTEES**

American Fisheries Society, American Institute of Fishery Research Biologists, Ecological Society of America, Sea Grant Climate Change Network, American Association for the Advancement of Science, International Association for Great Lakes Research, Michigan State University Canadian Studies Center Associate.

### **FIELDWORK EXPERIENCE**

Backpack electroshocking, beach seining, cast netting, purse seining, trawling (bottom and mid-water), longlining, pound nets, gill nets, SAV sampling, patent tonging, minnow traps, float survey, *PADI advanced open water certified diver*.

### **ANALYTICAL/ GRAPHICAL PROGRAMS**

*Expertise:* Adobe InDesign, Illustrator, and Photoshop; ArcGIS; Arlequin; DnaSP; Fluxus; FSTAT; Genemarker; Genepop; Genetix; Macvector; MEGA; Modeltest; Mr. Bayes; MSA; PAUP; R; SAS; Sequencher; Sequin; USFWS FIS.

*Experience:* AD Model Builder; Matlab; Minitab, Python.

### **RELEVANT COURSEWORK**

*MSU:* advocacy in the natural resource arena; applications of GIS to natural resource management; climate change and society; conservation ethics; ecology of global change; environmental sociology; evolutionary ecology; fish population dynamics; global issues in fisheries and wildlife; health and science journalism; human dimensions research in fisheries and wildlife; ichthyology; introduction to environmental science and policy; structured decision making; teaching college science.

*VIMS:* biological oceanography; chemical oceanography; coastal and estuarine processes and issues; deep sea biology; early life of marine fishes; environmental policy; fisheries population dynamics; fishery data management analysis; fundamentals of statistical analysis; geological oceanography; ichthyology; marine fisheries science; marine population genetics; marine science laboratory methods; molecular genetics data analysis; multivariate analysis; physical oceanography; techniques in marine molecular genetics.

*UVA:* animal physiology; beaches, coasts, and rivers; cell and molecular biology; ecology and conservation of stream fishes; field biology; fundamentals of ecology; general chemistry and lab; genetics and evolution; macroevolution; marine environments and organisms; organic chemistry and lab; ornithology; principles of physics and lab.

*Professional Short Courses:* Fisheries Information System (USFWS); Hunger Defeated? Long-term dynamics of global food security (Wageningen University); impact of climate change on aquatic ecosystems (Lund University); introduction to AD Model Builder; introduction to geographical information systems (USFWS); climate science boot camp (USGS); project design and management (NOAA); public issues and conflict management (NOAA).