

Emily Morgan Liljestrand

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U.S. Citizen

Education

Michigan State University
Quantitative Fisheries Center
Degree: PhD in Fisheries Sciences
Advisor: Dr. James Bence
Aug 2017-Present
Current GPA: 4.0

University of Maryland Center for Environmental Science
Chesapeake Biological Laboratory
Degree: M.Sc. in Fisheries Sciences
Advisor: Dr. Michael Wilberg
Jan 2015-Aug 2017
GPA: 4.0

Rice University
Degree: B.S. Biochemistry and Cell Biology
Degree: B.A. Ecology and Evolutionary Biology
Degree: B.A. Asian Studies
Fall 2009-Spring 2013
GPA: 3.79

Experience

Baylor College of Medicine
Project Intern (paid)
P.I.: Dr. Jin Wang
Oct 2013-Jan 2015

- Prepared and maintained stocks of pancreatic cell lines
- Performed cell viability assays
- Trained in murine care and surgery
- Edited grant applications, personal statements, and submissions for publication

Elite Private Tutors
High School Tutor for Math, Science, and SAT Prep
Oct 2013-Jan 2014

Marine Biological Laboratory
Course Assistant for Neural Systems and Behavior Graduate Course
Director: Dr. Paul Katz (2012)
Director: Dr. Hans Hofmann (2013)
Summers 2012, 2013

- Assisted an intensive graduate level laboratory course
- Prepared solutions for use in neuroanatomy and physiology research
- Coordinated with several companies and departments to order, organize, and exchange microscopes, computers, and chemical stocks
- Managed, organized, and edited social media sites

Fish Behavior Laboratory
High School Volunteer
Dr. Hans Hofmann
Summers 2008, 2009
University of Texas at Austin

- Observed and recorded behavior in African cichlids *Astatotilapia burtoni*, including aggression, courtship, and mating
- Used data to estimate patterns of aggression based on blue-yellow pigment plasticity in dominant male cichlids
- Assisted in basic laboratory techniques such as animal maintenance and electrophoresis

Papers and Presentations

Liljestrand EM, Wilberg MJ, Schueller, AM, Estimating migration and mortality of adult Atlantic menhaden with data from a large-scale mark-recapture study. Oral Presentation. Presented at: ICES/PICES Drivers of Dynamics of Small Pelagic Fish Resources, March 8, 2017; Victoria, BC, Canada.

Liljestrand EM, Wilberg MJ, Schueller, AM, Atlantic Menhaden Migration, Survival, and Exploitation Rates during 1966-1969. Oral Presentation. Presented at: American Fisheries Society National Meeting, August 25, 2016; Kansas City, MO.

Liljestrand EM, Wilberg MJ, Schueller, AM, Menhaden on the Move: A Quantitative Migration Model of Atlantic Menhaden (*Brevoortia tyrannus*) 1966-1969. Oral Presentation. Presented at: American Fisheries Society Tidewater Chapter Meeting, April 8, 2016; Edgewater, MD.

Liljestrand EM. Modeling Menhaden Migration. Presented at: Chesapeake Biological Laboratory Research Experiences for Undergraduates Seminar, July 21, 2015; Solomons, MD.

Grants and Fellowships

Maryland Sea Grant Graduate Fellowship (2015-present)

Chesapeake Biological Laboratory Graduate Education Committee Travel Grant (\$500)

University of Maryland Jacob K. Goldhaber Travel Grant (\$400)

University of Maryland International Conference Student Support Award (\$213)

PICES Travel Grant (\$370)

Awards

Best Presentation Award, ICES/PICES Drivers of Dynamics of Small Pelagic Fish Resources (2017)

Workshops and Conferences

ICES/PICES Drivers of Dynamics of Small Pelagic Fish Resources, Victoria, BC (2017)

AFS National Conference, Kansas City, MO (2016)

AFS Tidewater Chapter Meeting, Edgewater, MD (2016)

University of Maryland MEES Colloquium, Annapolis, MD (2016)

ICES Annual Science Conference, Copenhagen, DK (2015)

AFS National Conference, Portland, OR (2015)

Program MARK intermediate level workshop, Fort Collins, CO (2015)

AFS Tidewater Chapter Meeting, Pine Knoll Shores, NC (2015)

Marine Resources and Population Dynamics Workshop, Long Key, FL (2014)

East Coast Nerve Net Conference, Amherst, MA (2012)

Professional Organizations

American Fisheries Society

American Fisheries Society Tidewater Chapter
American Institute of Fishery Research Biologists

Leadership Roles

AFS Tidewater University of Maryland Student Subunit President (2016)
University of Maryland Center for Environmental Science Student Representative (2016)
Marine Estuarine Environmental Sciences Student Representative (2016)
Maryland Higher Education Council Student Representative (2016)
Chesapeake Biological Laboratory 5K Run for Research Organizational Chairman (2015)
AFS Tidewater University of Maryland Student Subunit Secretary (2015)

Outreach

Volunteer Docent at Chesapeake Biological Laboratory Visitors Center (2015-Present)

Blogging

AFS Tidewater University of Maryland Student Subunit Blog (<http://afs-umd.blogspot.com/>)
Maryland Sea Grant Fellowship Blog (<http://www.mdsg.umd.edu/fellowship-experiences>)

Skills and Certificates

Open Water Diver Certified

PADI Diver No. 11050X2301
Coral Reef Conservation specialty
Project Aware specialty

Computer Programs

Microsoft Office Suite: Word, Excel, Powerpoint, Access
R
MATLAB
STELLA
MARK
AD Model Builder

Languages

Spanish (Excellent)
Japanese (Conversational)

Graduate Record Examination

Verbal Reasoning- 161, top 14%
Quantitative Reasoning- 166, top 6%
Analytical Writing- 5.5, top 4%
Biology Subject Test- 760, top 21%