

Jessica L. Valenti

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EDUCATION

- 2014 - Present Ph.D. Candidate in Oceanography. Rutgers, The State University of New Jersey (GPA: 4.00).
Advisors: Dr. Thomas Grothues and Dr. Kenneth W. Able. Dissertation Topic: "Urbanization Effects on Estuarine Fishes". Completion Expected: May 2020.
- 2010 - 2014 B.S. Marine Science with minors in Chemistry and Biology. The Richard Stockton College of New Jersey (now Stockton University). Graduated Summa Cum Laude (GPA: 3.99) with Distinction in Marine Science and Distinction in the Honors Program.

RESEARCH EXPERIENCE

- 2014 Seasonal Marine Field Technician (May – Aug.), Rutgers University Marine Field Station
- 2013 - 2014 Distinction in Marine Science Research Project, The Richard Stockton College of New Jersey
- 2013 Fishery Research Intern (Aug. – Dec.), Rutgers University Marine Field Station (RUMFS)
- 2013 Research Experiences for Undergraduates (REU) Intern (May – Aug.), RUMFS
- 2012 Environmental Education and Research Intern (May – Aug.), The American Littoral Society

TEACHING EXPERIENCE

- 2017 Part Time Lecturer (Sep. – Dec.), Ichthyology, Rutgers University
- 2016 - 2017 Rutgers Academy for the Scholarship of Teaching and Learning (RASTL) Fellow, Rutgers Univ.
- 2015 - 2017 Summer Intern Coordinator, Rutgers University Marine Field Station
- 2015 - 2017 STEM Graduate Students in K-12 Education Fellow, Rutgers Science Bus, Rutgers University
- 2015 Graduate Teaching Assistant (Jan. – May), Introduction to Oceanography, Rutgers University
- 2014 & 2017 Co-Mentor (May – Aug.), Research Internships in Ocean Sciences (RIOS) REU, RUMFS
- 2013 Undergrad TA (1x), General Chemistry Laboratory, The Richard Stockton College of New Jersey
- 2012 - 2014 Undergrad TA (3x), Organic Chemistry Laboratory, The Richard Stockton College of New Jersey
- 2012 Instructor, SeaQuest school program & camp (May – Aug.), The American Littoral Society
- 2011 - 2014 Honors Program Mentor (mentored four students), The Richard Stockton College of New Jersey

GRANTS, FELLOWSHIPS, AND RESEARCH AWARDS

Total: \$183,543

- 2019 – 2020 Rutgers University: University & Bevier Dissertation Completion Fellowship. **Valenti, J.L.** \$25,000.
- 2016 – 2017 Target Field Trip Grant: "From the Classroom to the Estuary: Exploring the Local Marine Environment". Christensen, D. and **J.L. Valenti.** \$600.

- 2016 Garden Club of America: Caroline Thorn Kissel Summer Environmental Studies Award. Support for dissertation research. **Valenti, J.L.** \$3,000.
- 2016 Rutgers University: Teaching Assistant/Graduate Assistant Professional Development Fund Award. Support for dissertation research. **Valenti, J.L.** \$525.
- 2015 – 2019 Department of Marine and Coastal Sciences, Rutgers University: Graduate Assistantship. **Valenti, J.L.** \$29,604 per academic year.
- 2014 – 2017 Rutgers University Marine Field Station: Graduate Student Award. Support for dissertation research. **Valenti, J.L.** 2014: \$800, 2015: \$903, 2016: \$1,299, 2017: \$1,500.
- 2014 – 2015 School of Environmental and Biological Sciences, Rutgers University: Excellence Fellowship. **Valenti, J.L.** \$26,500.
- 2013 National Science Foundation, Rutgers University Research Internships in Ocean Sciences Program: Research Experiences for Undergraduates Fellowship. **Valenti, J.L.** \$5,000.

SCHOLARSHIPS AND TRAVEL AWARDS

Total: \$102,302

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- 2019 Marine Technology Society Graduate Student Scholarship (\$2,000)
- 2019 American Fisheries Society J. Frances Allen Scholarship Runner Up
- 2019 Manasquan River Marlin & Tuna Club George Burlew Spring Scholarship (\$1,000)
- 2019 International Women's Fishing Association Scholarship (\$1,000)
- 2018 Atlantic Estuarine Research Society Fall Ann C. Powel Student Travel Award (\$155)
- 2018 Manasquan River Marlin & Tuna Club George Burlew Spring Scholarship (\$500)
- 2018 Mid-Atlantic Chapter of the American Fisheries Society Student Travel Award (\$730)
- 2018 International Women's Fishing Association Scholarship (\$1,000)
- 2018 Rutgers School of Graduate Studies Student Travel Award (\$250)
- 2018 Rutgers Teaching Assistant/Graduate Assistant Professional Development Fund Award (\$752)
- 2017 Manasquan River Marlin & Tuna Club George Burlew Scholarship (Fall: \$1,000, Spring: \$1,000)
- 2017 Rutgers Teaching Assistant/Graduate Assistant Professional Development Fund Award (\$925)
- 2017 American Fisheries Society John E. Skinner Memorial Award (\$800)
- 2017 International Women's Fishing Association Scholarship (\$1,000)
- 2017 Atlantic Estuarine Research Society Spring Ann C. Powel Student Travel Award (\$300)
- 2017 American Fisheries Society Northeastern Division John Moring Student Travel Award (\$390)
- 2016 Manasquan River Marlin & Tuna Club George Burlew Scholarship (Fall: \$1,000, Spring: \$1,000)
- 2016 Atlantic Estuarine Research Society Ann C. Powel Travel Award (Fall: \$300, Spring: \$200)
- 2016 International Women's Fishing Association Scholarship (\$1,000)
- 2015 Manasquan River Marlin & Tuna Club George Burlew Scholarship (Fall: \$1,500, Spring: \$1,000)
- 2014 Manasquan River Marlin & Tuna Club George Burlew Fall Scholarship (\$1,500)
- 2013 Marine Technology Society Undergraduate Student Scholarship (\$2,000)
- 2013 Russell A. Cookingham Scholarship (\$1,000)
- 2013 Stew Tweed Fisheries and Aquaculture Scholarship (\$2,000)
- 2013 Richard Stockton College of New Jersey Foundation Scholar Award (\$2,500)

2013	New Jersey Marine Education Association Scholarship
2012	Garden Club of Long Beach Island Scholarship (\$2,000)
2012	Dr. Carol Slocum Book Award (\$500)
2010 – 2014	Richard Stockton College of New Jersey Presidential Scholarship (\$18,000 per academic year)

PEER-REVIEWED PUBLICATIONS

Valenti, J.L., T.M. Grothues, and K.W. Able. (2017). Estuarine fish communities along a spatial urbanization gradient. In: Buchanan, G.A.; Belton, T.J., and Paudel, B. (eds.), *A Comprehensive Assessment of Barnegat Bay–Little Egg Harbor, New Jersey. Journal of Coastal Research*, Special Issue No. 78, pp. 254-268.

Able, K.W., **J.L. Valenti**, and T.M. Grothues. (2017). Fish larval supply to and within a lagoonal estuary: Multiple sources for Barnegat Bay, New Jersey. *Environmental Biology of Fishes*, 100(6): 663-683.

Able, K.W., P.C. Lopez-Duarte, F.J. Fodrie, O.P. Jensen, C.W. Martin, B.J. Roberts, **J. Valenti**, K. O'Connor, and S.C. Halbert. (2015). Fish assemblages in Louisiana salt marshes: Effects of the Macondo oil spill. *Estuaries and Coasts*, 38(5): 1385-1398.

OTHER PUBLICATIONS

Valenti, J. (2015). Evaluating the impacts of the BP oil spill on Louisiana marsh fishes. *Stockton Innovations: A Journal of Undergraduate Research and Creativity*, 3(1): 28-31.

CONFERENCE ORAL PRESENTATIONS (presenter[s] in bold)

Valenti, J.L., T.M. Grothues, and K.W. Able. (2018, August). *Influence of Shoreline Armoring on Deep-Subtidal Marsh Creek Fish Communities*. Symposium: Life in the Big City: Understanding Urbanization Impacts on Estuarine Fishes and Shellfish. American Fisheries Society Annual Meeting, Atlantic City, New Jersey. Awarded Mid-Atlantic Chapter “Best Student Presentation”.

Able, K.W., **J.L. Valenti**, and T.M. Grothues. (2018, August). *Ichthyoplankton Supply to Estuarine Habitats*. Symposium: Celebrating the Lifelong Achievements of Kenneth W. Able, Director of the Rutgers University Marine Field Station since 1987. American Fisheries Society Annual Meeting, Atlantic City, New Jersey.

Safiq, A., C. Free, J.L. Valenti, J. Caracappa, A. Henry, and O. Jensen. (2018, August). *Perceptions of EBFM Among State Natural Resource Agency Personnel in the Northeastern United States*. Symposium: Coupled Social-Ecological Dynamics in Fisheries. American Fisheries Society Annual Meeting, Atlantic City, New Jersey.

Safiq, A., O.P. Jensen, J. Caracappa, C. Free, J. Valenti, and A. Kleinbeck. (2017, October). *Perceptions of EBFM Among State Natural Resource Agency Personnel in the Northeastern United States*. American Fisheries Society Mid-Atlantic Chapter Meeting, Dover, Delaware.

Valenti, J.L., T. Grothues, and K.W. Able. (2017, August). *Estuarine Fish Communities along a Spatial Urbanization Gradient*. Symposium: Fish Ecology I. American Fisheries Society Annual Meeting, Tampa, Florida.

Valenti, J.L., T. Grothues, and K.W. Able. (2016, October). *Fishes of a Temperate Estuary: Temporal and Subhabitat Influences on Species Composition and Abundance*. American Fisheries Society Mid-Atlantic Chapter Meeting, Bordentown, New Jersey.

Grothues, T., K.W. Able, and J. Valenti. (2015, November). *Assessment of Fishes and Crabs Responses to Human Alteration of Barnegat Bay*. Barnegat Bay Research Forum, Toms River, New Jersey.

Valenti, J., P.C. Lopez-Duarte, and K.W. Able. (2014, March). *Fishes on the Edge: Effects of the BP Oil Spill on Louisiana Marshes*. Stockton College's 14th Annual Day of Scholarship, Galloway, New Jersey.

INVITED PRESENTATIONS (presenter[s] in bold)

Brust, J., S. Johnston, L. Maza, D. Munroe, J.L. Valenti, and J. Vasslides. (2018, June). *American Fisheries Society Annual Meeting Preview*. American Fisheries Society Webinar Series, Bethesda, Maryland.

Valenti, J.L. (2016, October). *Effects of an Urbanized Watershed on the Fishes in Barnegat Bay, NJ*. Marine Science Seminar Series, Stockton University, Galloway, New Jersey.

GUEST LECTURES (presenter[s] in bold)

Valenti, J.L. (2018, November). *Applications of Chemistry Principles in Estuarine Fish Ecology*. Stockton University, Galloway, New Jersey. Course: Chemistry Seminar.

Valenti, J.L. (2018, November). *Careers in Marine Science: Jobs, Graduate School, Scholarships, and Internships*. Stockton University, Galloway, New Jersey. Course: Marine Science Seminar.

Valenti, J.L. (2018, May). *Fishes of a Temperate Estuary: Ecology and Response to an Urbanized Watershed*. Marine Academy of Technology and Environmental Science, Stafford Township, New Jersey. Course: Research Methods.

Valenti, J.L. (2016, November). *Careers in Marine Science: Jobs, Graduate School, Scholarships, and Internships*. Stockton University, Galloway, New Jersey. Course: Ichthyology.

CONFERENCE POSTERS (presenter[s] in bold)

Parry, D.M., P. Lopez-Duarte, J.L. Valenti, K.W. Able, and O. Jensen. (2018, August). *Distinguishing Juvenile Striped Bass Habitats and Spawning Sites Using Otolith Microchemistry*. Session: Best Student Posters. American Fisheries Society Annual Meeting, Atlantic City, New Jersey. Awarded American Fisheries Society "Best Student Poster".

Valenti, J.L., T.M. Grothues, and K.W. Able. (2017, October). *Fishes and Crabs of a Temperate Estuary: Diel Influence on Species Composition and Abundance*. American Fisheries Society Mid-Atlantic Chapter Meeting, Dover, Delaware.

Parry, D.M., **P.C. Lopez-Duarte**, J.L. Valenti, and K.W. Able. (2017, October). *Analysis of Juvenile Striped Bass Spawning Sites Using Otolith Microchemistry*. American Fisheries Society Mid-Atlantic Chapter Meeting, Dover, Delaware.

Parry, D.M., P.C. Lopez-Duarte, J.L. Valenti, and K.W. Able. (2017, August). *Analysis of Juvenile Striped Bass Spawning Sites Using Otolith Microchemistry*. Rutgers RIOS (REU) Poster Session, New Brunswick, New Jersey. Awarded 2nd place in the poster competition.

Kruger, A., **J.L. Valenti**, and P. Irizarry. (2017, July). *Beyond the GK-12 Program: Graduate Student Experiences on board of a Mobile Lab*. Mobile Laboratory Coalition Conference, New Brunswick, New Jersey.

Valenti, J.L., T.M. Grothues, and K.W. Able. (2017, March). *Fishes and Crabs of a Temperate Estuary: Diel Influence on Species Composition and Abundance*. Atlantic Estuarine Research Society Spring Conference, St. Mary's City, Maryland.

Valenti, J.L., T. Grothues, and K.W. Able. (2017, February). *Fishes of a Temperate Estuary: Temporal and Subhabitat Influences on Species Composition and Abundance*. Joint Meeting of the American Fisheries Society Southern New England Chapter and Northeastern Division, Mystic, Connecticut.

Valenti, J.L., T. Grothues, and K.W. Able. (2016, November). *Fishes of a Temperate Estuary: Temporal and Subhabitat Influences on Species Composition and Abundance*. Atlantic Estuarine Research Society Fall Conference, Catonsville, Maryland. Awarded "Outstanding Graduate Student Poster Presentation".

Valenti, J.L., T. Grothues, and K.W. Able. (2016, March). *Fish Communities in Barnegat Bay, New Jersey: Comparison along an Urbanization Gradient in the Watershed*. Atlantic Estuarine Research Society Spring Conference, Virginia Beach, Virginia.

Winqvist-Bailey, A., K.W. Able, **T. Grothues**, and J. Valenti. (2014, December). *Analysis of Fish Assemblages Across a Gradient of Human Alteration in Creek Habitats in Barnegat Bay*. Fourth Annual NJDEP Barnegat Bay Workshop, Bordentown, New Jersey.

Winqvist-Bailey, A., K.W. Able, T. Grothues, and J. Valenti. (2014, August). *Analysis of Fish Assemblages Across a Gradient of Human Alteration in Creek Habitats in Barnegat Bay*. Rutgers RIOS (REU) Poster Session, New Brunswick, New Jersey.

Vera, R., **J. Valenti**, and G. Grguric. (2014, May). *Lateral and Vertical Variations in Inorganic Parameters throughout the Mullica River-Great Bay Estuary*. New Jersey Water Environment Association 99th Annual Conference, Atlantic City, New Jersey. Awarded 1st place in the poster competition.

Vera, R., **J. Valenti**, and G. Grguric. (2014, April). *Lateral and Vertical Variations in Inorganic Parameters throughout the Mullica River-Great Bay Estuary*. Stockton's School of Natural Sciences and Mathematics Poster Symposium, Galloway, New Jersey.

Valenti, J., P.C. Lopez-Duarte, and K.W. Able. (2014, April). *Fishes on the Edge: Effects of the BP Oil Spill on Louisiana Marshes*. Northeast Regional Honors Council Conference, Niagara Falls, New York.

Valenti, J., P.C. Lopez-Duarte, and K.W. Able. (2013, November). *BP Oil Spill Effects on the Abundance and Composition of Louisiana Marsh Fishes*. American Fisheries Society Mid-Atlantic Chapter Meeting, Tuckerton, New Jersey.

Valenti, J., P.C. Lopez-Duarte, and K.W. Able. (2013, August). *BP Oil Spill Effects on the Abundance and Composition of Louisiana Marsh Fishes*. Rutgers RIOS (REU) Poster Session, New Brunswick, New Jersey.

OUTREACH AND VOLUNTEER WORK

Rutgers Student Subunit of the American Fisheries Society

2019 Rutgers Day Volunteer; organized and ran a fish printing activity for attendees
 2018 Planned and assisted in running an Introduction to R Workshop for 30+ students
 2017 Organized a get-together for the Stockton, MATES, and Rutgers student Subunits

Rutgers University Oceanography Graduate Student Association

2017 Shore Bowl Steering Committee Member
 2015 & 2017 Rutgers Day Volunteer; assisted with touch tanks
 2015 - 2016 Shore Bowl Volunteer; kept score of the various matches throughout the day
 2014 Assisted in hosting Dr. Barbara Block, “Eminent Ecologist” seminar speaker

Rutgers University Marine Field Station

2019 Open House Volunteer; assisted with children friendly “Fun with Fundulus” activity
 2017 Hosted ACIT class field trip for 35+ AP Biology students
 2017 Open House Volunteer; presented research poster, assisted with the otolith microchemistry station
 2017 Assisted with field trip for winners of the Shore Bowl competition
 2017 Assisted with Osher Lifelong Learning Institute course
 2016 Open House Volunteer (fall & spring); presented research posters, helped with wet lab/touch tank
 2015 Tour leader for the Identification of Marine Invertebrates Course
 2014 Tour leader for Fernbrook Farms Environmental Ed. Center’s Young Stewards Summer Camp
 2014 - 2018 Coordinated volunteer involvement in field research efforts

Stockton’s Marine Science and Environmental Field Station

2012 - 2014 Authored a trail guide for the maritime forest nature trail
 2012 – 2014 Organized annual clean-ups of the nearby marsh

School Visits and Special Events

2017 Manasquan River Marlin and Tuna Club Spring Opening Reception (presented poster)
 2016 Tuckerton Seaport’s Baymen’s Seafood and Music Festival (presented poster)
 2015 Puddle Jumpers Academy (3 presentations: toddler, pre-school, and pre-kindergarten)

Assisted Students

2016 Spoke with a local high school student about careers in Marine Science
 2016 Assisted a middle school robotics team with their project for First Lego League

- 2016 Reviewed two student papers for the Monmouth Junior Science Symposium
- 2015 Spoke with students in a Marine Science class at St. Joseph's Academy, MO about my research
- Provided Information
- 2019 Provided a fishes of Barnegat Bay handout to a local AmeriCorps Watershed Ambassador
- 2019 Provided a fishes of Barnegat Bay research poster and handout to Ridgefield High School, CT
- 2018 Provided a Barnegat Bay fish ID handout for Lord Stirling Park Environmental Education Center
- 2017 The Sandpaper, Article: "Exploring the Rutgers Marine Field Station at the Edge of the Marsh"
- 2017 Created a poster and handout about the fishes of Barnegat Bay for the Barnegat Bay Partnership
- 2016 Provided two research posters to the Barnegat Bay Partnership for use as educational aids
- 2016 Provided a research poster to the Jacques Cousteau National Estuarine Research Reserve
- 2016 Provided a research poster to the Tuckerton Seaport for use as an educational aid
- 2012 Associated Press, Article: "Before a spill, group documents marine life in NJ"

PROFESSIONAL DEVELOPMENT

Teaching Courses (semester long classes offered at Rutgers)

- 2017 Introduction to Online and Hybrid Teaching
- 2015 Designing Your Own Course
- 2015 Introduction to College Teaching

Teaching Certificates (offered through Rutgers)

- 2015 Preparing for the Professoriate - Workshops Attended: Designing and Grading Writing Assignments, The Academic Job Interview, Engaging Students in the Lab, and Effectively Managing Groups of Students
- 2015 Teaching with Technology - Workshops Attended: Online Grade Reporting and Communication, PowerPoint Basics, Basic Web Design, and Excel for Grading

Teaching Workshops

- 2015 Mentoring Undergraduates in Summer Research

Data Analysis Workshops

- 2018 Beginning and Advanced GIS for Fisheries Scientists
- 2017 Bayesian I & II: Introduction and Intermediate Bayesian Inference Using Gibbs Sampling
- 2016 Programming in R: Part 1 & 2
- 2014 Data Visualizations in R: lattice, ggplot2, 3-D, Interactive, and Big Data
- 2014 Introduction to R: Statistical Functions, Graphics, and Data Manipulation

Research Training

- 2017 Defensive Driving Course
- 2013 Boating Safety Certificate

Manuscript Reviewer for:

Fisheries Science

Estuaries and Coasts

PROFESSIONAL MEMBERSHIP

2017 - Present American Institute of Fishery Research Biologists

2016 - Present Atlantic Estuarine Research Society

2015 - Present The Oceanography Society

2014 - Present American Fisheries Society

- 2013 - Present: Mid-Atlantic Chapter Member
 - 2016 - 2017: Student Representative
- Rutgers University Student Subunit
 - 2017 - 2019: Subunit President
 - Founding member of the student subunit
- Student Activities Committee Co-Chair for the 2018 Annual Meeting in Atlantic City, NJ

2013 - Present Marine Technology Society

- Chartering member of the Richard Stockton College of New Jersey student chapter

2013 - Present New Jersey Marine Education Association

REFERENCES

Dr. Kenneth W. Able

Rutgers University, Department of Marine and Coastal Sciences, Professor Emeritus; Rutgers University Marine Field Station, Previous Director, able@marine.rutgers.edu, 609-296-5260 Ext. 230

Dr. Thomas Grothues

Rutgers University, Department of Marine and Coastal Sciences, Rutgers University Marine Field Station, Associate Research Professor, grothues@marine.rutgers.edu, 609-296-5260 Ext. 262

Dr. Paola Lopez-Duarte

University of North Carolina Charlotte, Department of Biological Sciences, Assistant Professor, lopez-duarte@uncc.edu, 704-687-5083

Dr. Mark Sullivan

Stockton University, School of Natural Sciences and Mathematics, Associate Professor of Marine Science, Mark.Sullivan@stockton.edu, 609-626-3575