

Jessica L. Valenti

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EDUCATION

- 2020 – Present National Science Foundation Postdoctoral Research Fellow in Biology. Project Title: Microplastics in the Marine Food Web: Insights from a 30-Year Larval Fish Collection. Sponsoring Scientists: Dr. Ashok Deshpande (NOAA) and Dr. Grace Saba (Rutgers).
- 2014 – 2020 Ph.D. in Oceanography. Rutgers, The State University of New Jersey. Dissertation Title: “Fishes of a Temperate Estuary: Ecology and Response to an Urbanized Watershed”. Advisors: Dr. Thomas Grothues and Dr. Kenneth W. Able.
- 2010 – 2014 B.S. in Marine Science with minors in Chemistry and Biology. The Richard Stockton College of New Jersey (now Stockton University). Graduated Summa Cum Laude 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

- 2018 – 2020 Adjunct Professor, Organic Chemistry Laboratory, Stockton University
- 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 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: \$322,543**

2020 – 2022	National Science Foundation: Postdoctoral Research Fellowship in Biology – Interdisciplinary Research Using Biological Collections. Valenti, J.L. \$138,000.
2019 – 2020	Rutgers University: University & Bevier Dissertation Completion Fellowship. Valenti, J.L. \$25,000.
2019	Stockton University: Adjunct Faculty Opportunity Fund. Valenti, J.L. \$1,000.
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: \$105,545**

2020	Manasquan River Marlin & Tuna Club George Burlew Spring Scholarship (\$1,000)
2019	Manasquan River Marlin & Tuna Club George Burlew Fall Scholarship (\$1,000)
2019	Alpha Kappa Alpha Educational Advancement Foundation Graduate Merit Scholarship (\$1,000)
2019	Rutgers Center for Fisheries and Ocean Sustainability Student Travel Award (\$243)
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

Safiq, A., C.M. Free, J. Caracappa, **J.L. Valenti**, and O. Jensen. (2021). Perceptions of ecosystem-based fisheries management among state natural resource agency scientists in the Northeastern United States. *Fisheries*: 46(2): 66-75.

Valenti, J.L., T.M. Grothues, and K.W. Able. (2020). Juvenile fish assemblage recruitment dynamics in a mid-Atlantic estuary: Before and after Hurricane Sandy. *Marine Ecology Progress Series*, 641: 177-193.

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: 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)

Valenti, J.L., T. Grothues, and K.W. Able. (2020, November). *Fishes of Barnegat Bay*. Rutgers Cooperative Extension Barnegat Bay Shellfish Restoration Program Coastal Stewardship Course. Rutgers University, New Brunswick, New Jersey.

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.

Winquist-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.

Winquist-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

- 2020 Spoke with a local high school student as part of an assignment for their research program
- 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

2020	Moving Tests to Blackboard
2020	Posting and Grading Course Assignments in Blackboard for Remote Student Submission
2020	Enabling Zoom in Blackboard
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

2020	Introductory Fisheries Science for Stakeholders (IFISSH)
2017	Defensive Driving Course
2013	Boating Safety Certificate

Manuscript Reviewer for:

Estuaries and Coasts
 Fisheries Science

PROFESSIONAL MEMBERSHIP

American Fisheries Society

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

American Institute of Fishery Research Biologists

Atlantic Estuarine Research Society

Coastal and Estuarine Research Federation

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, 609-249-8801

Dr. Thomas Grothues

Rutgers University, Department of Marine and Coastal Sciences, Rutgers University Marine Field Station, Associate Research Professor, grothues@marine.rutgers.edu, 609-249-8802

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