

KONSTANTINE J. ROUNTOS, Ph.D.

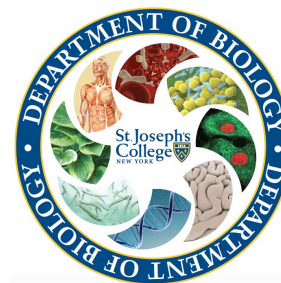
Assistant Professor of Biology

St. Joseph's College

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EDUCATION:

Ph.D., Marine and Atmospheric Sciences, Stony Brook University 2014

M.S., Marine and Atmospheric Sciences, Stony Brook University 2008

B.S., Biology, Manhattan College 2005

PROFESSIONAL BACKGROUND:

Assistant Professor of Biology, St. Joseph's College, NY 2016 - present

-Department of Biology, Long Island Campus

Director of Research and Development, Manna Fish Farms, NY 2016 - present

Lecturer, St. Joseph's College, NY Fall 2015

-Department of Biology, Long Island Campus

Senior Postdoctoral Associate, Stony Brook University 2014 - 2016

-Shinnecock Bay Restoration Program, Institute for Ocean Conservation Sciences

Part-Time Lecturer, The New School 2011 - present

-Environmental Policy and Sustainability Management

Adjunct Professor of Environmental Sciences, The New School 2011 - 2012

-Tishman Environment and Design Center

Adjunct Professor of Biology, Manhattan College 2009

-Department of Biology

Adjunct Professor of Biology, College of Mt. Saint Vincent 2008 - 2009

-Division of Natural Sciences

Fulbright Fellow, University of Crete 2007 - 2008

-Marine Ecology Laboratory, Heraklion, Greece

TEACHING & ADVISING:

Chair - *Environmental Studies Minor* 2016 - present

Courses Taught: St. Joseph's College, NY 2015 - present

BIO 480. **Research**

BIO 470. **Coastal Marine Habitats**

BIO 380. **Research Seminar**

BIO 280. **Field Course in Ecology (Study Abroad - Greece)**

BIO 279. **Local Field Ecology**

BIO 150 & 151. **General Biology I & II**

BIO 145. **Marine Biology**

Courses Taught: The New School, NY 2011 - present

MSUS 5000/NEPS 5006. **Principles of Environmental Science** (Core Graduate Course)

LSCI 2050/UENV2400. **Principles of Ecology** (Undergraduate Course)

UENV 2000. **Environment and Society** (Undergraduate Course)

Courses Taught: Prior to 2011

I have taught a total of 10 lecture and laboratory courses at the undergraduate level for science and non-science majors. Courses included General Biology (BIO 113,114), Concepts of Biology (BIO 102), The Living World (BIO 150), and Aquatic Arthropods and Vertebrates (BIO 346) at Stony Brook University (2005-2006), College of Mount Saint Vincent (2008-2009) and Manhattan College (2009).

Advising & Mentoring

St. Joseph's College

2016 - present

-Undergraduate Student Research Projects (Faculty Advisor): **6 students**

-Fulbright Fellowship Advisor: **3 students**

-Hutton Junior Fisheries Biology Program Mentor: **1 student**

The New School

2011 - present

-Graduate Student Research Projects (Faculty Advisor): **2 projects**

Double Savings project- Green&Go (The Green Fund, \$2,500) - A study to implement and assess the utility of reusable to-go containers in New School cafeterias.

Informal Recycling - Waste study (NYSP2I, \$1,200) - A pilot study where we sorted New School garbage and quantified the different categories found (i.e. recyclables, compostable, landfill waste etc.). Students presented this research at the Statehouse in Albany NY, and received a 3rd place finish with a trophy at the 2013 NYS pollution Prevention Institute R&D Graduate student competition.

-Graduate Students Mentored: **5**

-Graduate Student Thesis (Reader): **1**

-Undergraduate Senior Thesis: **1**

Stony Brook University

2009 - present

-Graduate Students Mentored: **13 total**

-Undergraduate Research Assistants: **8**

-High School Summer Researchers: **2**

PEER-REVIEWED PUBLICATIONS:

- 7) **Rountos, K.J.**¹, Gobler, C.J., and E.K. Pikitch. (accepted). Ontogenetic Differences in Fish Swimming Behavior When Exposed to the Harmful Dinoflagellate *Cochlodinium polykrikoides*. *Transactions of the American Fisheries Society*. DOI: UTAF #1339638
- 6) Gownaris, N.J., Pikitch, E.K., Aller, J.Y., Kaufman, L., Kolding, J., Lwiza, K.M.M., Obiero, K.O., Ojwang, W.O., Malala, J.O. and **Rountos, K.J.** (2016). Fisheries and Water Level Fluctuations in the World's Largest Desert Lake. *Ecohydrology* DOI: 10.1002/eco.1769
- 5) **Rountos, K.J.**¹ (2016). Defining Forage Species to Prevent a Management Dilemma. *Fisheries*. **41**: 16-17. DOI: 10.1080/03632415.2015.1110791.
- 4) **Rountos, K.J.**¹, Frisk M.G., and E.K. Pikitch. (2015). Are we catching what they eat? - Moving beyond trends in the mean trophic level of catch. *Fisheries*. **40**: 376-385. DOI: 10.1080/03632415.2015.1061509.
- 3) **Rountos, K.J.**¹, Tang Y.Z., Cerrato, R.C., Gobler, C.J., and E.K. Pikitch. (2014). Toxicity of the harmful dinoflagellate, *Cochlodinium polykrikoides*, to early life stages of three estuarine forage fish. *Marine Ecology Progress Series*. **505**: 81-94. DOI: 10.3354/meps10793

- 2) Pikitch, E.K.², Rountos, K.J.^{1,2}, Essington, T.E. *et al* (2014). The global contribution of forage fish to marine fisheries and ecosystems. *Fish and Fisheries* **15**: 43-64. DOI: 10.1111/faf.12004
- 1) Rountos, K.J.¹, Peterson B.J., and I. Karakassis. (2012). Indirect effects of fish cage aquaculture on shallow *Posidonia oceanica* seagrass patches in coastal Greek waters. *Aquaculture Environment Interactions* **2**: 105-115. DOI: 10.3354/aei00037

¹Corresponding author, ²Co-lead authors

RESEARCH PROJECTS & EXPERIENCE:

- Lethal and Sublethal Effects of Harmful Algal Blooms to Fish, St. Joseph's College** 2016 - present
- Faculty advisor and lead researcher in examining the effects of harmful algal blooms to fish.
 - Maintain all State and University Animal Use permits and compliance.
 - Responsible for training, organizing, and advising undergraduate research projects.
- Patchogue Lake Restoration and Monitoring, St. Joseph's College** 2016 - present
- Lead faculty coordinator for Patchogue Lake research and restoration.
 - Maintain all State and University Animal Use permits and compliance.
 - Responsible for training and organizing undergraduates and volunteers to assist in research and restoration.
- Sustainable Offshore Aquaculture, St. Joseph's College & Manna Fish Farms, Inc.** 2016 - present
- Lead investigator exploring the barriers, challenges, and potential for offshore aquaculture in Long Island, NY.
- Shinnecock Bay Restoration Program (ShiRP), Stony Brook University** 2012 - 2017
- Lead scientist for fisheries and harmful algal bloom toxicity research.
 - Maintain all State and University Animal Use permits and compliance.
 - Responsible for training and organizing graduate students, undergraduates, and volunteers to assist in ShiRP research.
- Lenfest Forage Fish Task Force, Stony Brook University** 2009 - 2012
- Lead research scientist on global meta-analysis evaluating the economic and ecological role of forage fish.
 - Developed a comprehensive database for key ecosystems highlighting the effects of forage fish depletion on highly dependent predators.
- Fulbright Fellowship, University of Crete and Stony Brook University** 2007 - 2008
- Examined the direct and indirect effects of effluent from large and small-scale fish farming operations on the surrounding seagrass ecosystems.
- Graduate Assistant, Stony Brook University** 2006 - 2007
- Scientist for Hudson River Striped Bass Survey, NY Department of Environmental Conservation.
- Research Assistant, Stony Brook University** 2005 - 2007
- Investigator for Stony Brook – Southampton Coastal and Estuarine Research Program.

LEADERSHIP & ACADEMIC SERVICE:

- Symposium organizer** 2016
- Seaweb Sustainable Seafood Summit, St. Julian's, Malta

-Symposium title: *Offshore Aquaculture: Challenges and Opportunities for Advancing Sustainable Seafood in the Deep Blue Sea*

Founding member of Institutional Care and Use Committee at St. Joseph's College	2016-present
Fulbright Fellowship Faculty Advisor	2016-present
Chair and co-organizer of symposium	2015
-American Fisheries Society 145th Annual Meeting, Portland, OR, USA	
-Symposium #3390: <i>Resolving the Multiple Impacts of Anthropogenic Eutrophication on Coastal Fish and Fisheries</i>	
Treasurer, Estuaries Section of the American Fisheries Society	2014 - present
Manuscript reviewer	2014 - present
- <i>Global Ecology and Biogeography</i>	
- <i>Fisheries</i>	
- <i>Canadian Journal of Fisheries and Aquatic Sciences</i>	
- <i>Transactions of the American Fisheries Society</i>	
- <i>Scientific Reports</i>	
- <i>Marine Environmental Research</i>	
Member of the Fisheries Ecologist search committee, Stony Brook University	2011

FELLOWSHIPS, SCHOLARSHIPS & MERIT AWARDS:

Faculty Development Small Grant: \$750	2017
NY Empire State Development Grant (Manna Fish Farms, Inc.): \$50,000	2016
Nuria Protopopescu Memorial Teaching Award - \$1,000	2014
J.R. Schubel Fellowship - \$3,000	2014
Clark Hubbs Student Research Award - \$500	2014
Evan R. Liblit Memorial Graduate Scholarship - \$3,700	2011
Fulbright U.S. Student Fellowship to Greece – \$21,100	2007

INVITED SEMINARS & CONFERENCE PRESENTATIONS:

- Rountos, K.J.** (2016). The Time Has Come to Grow With It: Making the Case for Responsible Offshore Aquaculture. Stony Brook University - School of Marine and Atmospheric Sciences Fall Lecture Series, Southampton, NY, USA, November 4th. (Oral presentation)
- Rountos, K.J.**, Gobler, C.J., Pikitch, E.K. (2015). HABs, Camera, Action! Revealing the Behavioral Toxicity of Harmful Algae to Coastal Forage Fish Using Video Analysis. American Fisheries Society 145th Annual Meeting of the American Fisheries Society, Portland, OR, USA, August 16th-20th. (Oral presentation)
- Rountos, K.J.** (2015). Seeing Below the Surface: Challenges to Consider for Sustainable Seafood Production. Manhattan College, USA. April 22nd. (Earth Day Seminar)
- Rountos, K.J.** (2015). Toxicity of the Harmful Rust Tide, *Cochlodinium polykrikoides*, to Fish In the Hamptons and Beyond. Istanbul University, Institute for Marine Sciences and Management, Turkey. February 17th. (Departmental Seminar)
- Rountos, K.J.** (2015). The Forage Fish Identity Crisis. SeaWeb Seafood Summit, New Orleans, USA. February 9-11th. (Invited Panelist)

- Rountos, K.J.**, Frisk, M.G., Pikitch, E.K. (2014). Are we catching what they eat? - Assessing Mean Trophic Level of Fisheries Catch and Predator Consumption Globally. 144th Meeting of the American Fisheries Society, Québec City, Québec, Canada. August 17th-21st. (Invited Symposium presentation)
- Rountos, K.J.** (2013). The Global Contribution of Forage Fish to Marine Ecosystems: from Food to Fisheries Value. Manhattan College, Biology Department, USA. February 22nd. (Biology Department Seminar)
- Rountos, K.J.** and Pikitch, E.K. (2012). The Global Contribution of Forage Fish to Marine Fisheries Value. 142nd Annual Meeting of the American Fisheries Society, St. Paul, MN, USA. August 19-23rd. (Symposium Keynote presentation)
- Rountos, K.J.** (2011). Global contributions of Forage Fish to World Fisheries and Ecosystems. American Fisheries Society 141st Annual Meeting of the American Fisheries Society, Seattle, WA, USA, September 4th-8th. (Invited Symposium presentation)

CONTRIBUTED CONFERENCE PRESENTATIONS:

- Rountos, K.J.** (2016). For the Love of Sustainable Seafood. Liberal Arts Colloquium, St. Joseph's College, Patchogue, NY, USA, October 20th. (Oral presentation)
- Rountos, K.J.** (2015). Back to the Basics: Defining Forage Species to Prevent a Management Crisis. American Fisheries Society 145th Annual Meeting of the American Fisheries Society, Portland, OR, USA, August 16th-20th. (Poster presentation)
- Gownaris, N., **Rountos, K.J.**, Pikitch, E.K., Kolding, J., Kaufman, L. (2015). Water Level Fluctuations and the Ecosystem Functioning of African Lakes. American Fisheries Society 145th Annual Meeting of the American Fisheries Society, Portland, OR, USA, August 16th-20th. (Oral presentation)
- Rountos, K.J.**⁴, Gobler, C.J., Pikitch, E.K. (2014). First evidence of behavioral toxicity to estuarine forage fish from exposure to the harmful dinoflagellate, *Cochlodinium polykrikoides*. Annual Meeting of the New York Chapter of American Fisheries Society, Geneva, NY, USA. February 5-7th. (Oral presentation)
⁴*Awarded Best Student Presentation Prize* (\$150)
- Rountos, K.J.** (2014). The relative importance of forage fishes to marine predators revealed through a synthesis of predator trophic habits in fished ecosystems. 5th Annual SoMAS Proceedings in Marine and Atmospheric Sciences Graduate Student Symposium, Stony Brook, NY, USA. January 24th. (Oral presentation)
- Rountos, K.J.**, Frisk, M.G., Pikitch, E.K. (2013). Building on the relative importance of marine forage species to fisheries and predators globally: examining trophic similarities and dissimilarities in marine ecosystems. 2013 ICES Annual Science Conference, Reykjavik, Iceland. September 23rd-27th. (Poster presentation)
- Rountos, K.J.**⁵, Tang, Y.Z., Gobler, C.J., Pikitch, E.K. (2013). The Effects of Harmful Algal Blooms On Early Life Stages of Estuarine Forage Fish. 143rd Meeting of the American Fisheries Society, Little Rock, Arkansas, USA. September 8th-12th. (Oral presentation)
⁵*Awarded Best Student Presentation Prize in a Fish Habitat Section sponsored symposium* (\$100)
- Rountos, K.J.**, Broms, K., Pikitch, E.K. (2013). Insights from a Bay On the Brink. 143rd Meeting of the American Fisheries Society, Little Rock, Arkansas, USA. September 8th-12th. (Poster presentation)

- Rountos, K.J.** and Pikitch, E.K. (2013). Restoring Shinnecock Bay, a tale of two sides of an important New York Bay. Annual Meeting of the New York Chapter of American Fisheries Society, Watertown, NY, USA. January 30th-February 1st. (Oral presentation)
- Rountos, K.J.** (2012). Global contribution of Forage Fish to Marine Ecosystems and Fisheries. 3rd Annual SoMAS Proceedings in Marine and Atmospheric Sciences Graduate Student Symposium, Stony Brook, NY, USA. January 20th. (Oral presentation)
- Rountos, K.J.** (2012). Reuse for Research: An initiative for turning a Restaurant's trash into a Scientist's treasure - Can it work at Stony Brook University and beyond? 3rd Annual SoMAS Proceedings in Marine and Atmospheric Sciences Graduate Student Symposium, Stony Brook, New York, USA. January 20th. (Oral Presentation)
- Rountos, K.J.**, T.E., Essington, C.M. Santora, E.K. Pikitch. (2011). Global contributions of Forage Fish to Fisheries and Ecosystems. Student Conference on Conservation Science New York (SCCS-NY), New York City, USA, October 12th-14th. (Oral Presentation)
- Essington, T.E., E.K. Pikitch, C.M. Santora, and **K.J. Rountos**. (2010). Accounting for dependencies of seabirds on forage fish in fisheries management. 1st World Seabird Conference, Victoria, Canada, September 7th – 11th. (Oral presentation)
- Rountos, K.J.** (2010). Global meta-analysis of the economic and ecological importance of forage fish. 3rd Meeting of the Lenfest Forage Fish Task Force, Paracas, Peru, May 23rd-28th. (Oral presentation)
- Rountos, K.J.**⁶, B.J. Peterson, and I. Karakassis. (2010). Negative effects of coastal fish farms on adjacent seagrass meadows: A study in the Eastern Mediterranean Sea. 1st Annual SoMAS Proceedings in Marine and Atmospheric Sciences Graduate Student Symposium, SoMAS, Stony Brook, New York, January 21st. (Oral presentation)
- ⁶*Awarded Best Graduate Student Presentation (\$75)*
- Rountos, K.J.** March (2008). Discovering a New Place: Aquaculture in Greece. Fulbright U.S. Student Grantee Newsletter. Issue 6, Fulbright Program for U.S. Students. Available at (<http://newsletter.fulbrightonline.org/72.html#3>) (Online publication)
- Rountos, K.J.** (2008). Υπάρχουν δάση μέσα στη θάλασσα? (Are there forests in the sea?). Presented over 10 hour-long lectures to elementary school children throughout Greece in Greek and English languages on the importance of protecting coastal ecosystems. (Oral presentation)
- Rountos, K.J.** (2008). Researching the forests of the sea? Seminar on topics and careers in ecology for high school students. Agia Sophia, Crete, Greece. (Oral presentation)
- Rountos, K.J.**, and B.J. Peterson. (2007). Approaches in evaluating the effects of sulfide toxicity among other multiple stressors in eelgrass meadows in Great South Bay, NY. Benthic Ecology Meeting, Atlanta, GA. March 2007 (Poster presentation)
- Rountos, K.J.** (2006). Knowing the Seafood you Serve. Connecticut Pan-Gregorian Enterprise Monthly Meeting, New Haven, CT. October 2006. (Oral presentation)
- Rountos, K.J.**, M.L. Judge, I. Visviki, J.D. Mahony, C.O'Mara and T. Loor. (2005). Chronic Toxicity of Arsenate on Life History Parameters of *Leptocheirus plumulosus*. Benthic Ecology Meeting, Williamsburg, VA. April 2005. (Poster presentation)
- Kolade, O., J. Balderama, and **K.J. Rountos**. (2004). Exploration of Cannibalism in *Leptocheirus plumulosus* Juveniles. Eastern Colleges Conference Science Conference April 2004. (Oral presentation)

CONFERENCE TRAVEL AWARDS:

Stony Brook PostDoc Travel Award - \$1,500	2015
John E. Skinner Memorial Travel Award - \$130 (Honorable Mention)	2014
Woods Hole Oceanographic Institute Travel Award - \$3,400	2013
Estuaries Section of the American Fisheries Society Travel Award - \$400	2013
New York Chapter of the American Fisheries Society Travel Award - \$150	2013
Marine Fisheries Section of the American Fisheries Society Travel Award - \$500	2012
Staudte Graduate Travel Award, Stony Brook University - \$250	2012
Distinguished Travel Award, Stony Brook University Graduate School - \$1,500	2011
Sigma Xi Travel Award, Stony Brook University Chapter - \$250	2011

PROFESSIONAL MEMBERSHIPS:

American Fisheries Society , (http://fisheries.org/)	2011 - present
- Estuaries Section , (http://estuaries.fisheries.org/)	2013 - present
- New York Chapter , (http://newyorkafs.org/)	2013 - present

CERTIFICATIONS:

Emergency First Responder (CPR, First-Aid, Emergency management)	2007 - present
New York State Boating Safety Certificate	2006 - present
Research SCUBA Diving (PADI Rescue Diver, Enriched Air Diver)	2002 - present
-Logged 50+ hours (>100 dives) for research	