Arvind K. Shantharam

9800 Old Willow Way
Ellicott City, MD 21042

Phone: (443) 852-5566
E-mail: akshan1@gmail.com

Education

2020 | **Ph.D. Oceanography |** Florida State University

2010 | **M.A., Applied Ecology** | Stony Brook University

2008 | **B.S., Environmental Science** | University of Maryland, Baltimore County

Research Experience

11/1/2020 - present — **Research Associate**, Northern Gulf Institute, Stennis Space Center, MS
Data manager and analyst for NOAA Deep-sea Coral Research and Technology Program. In charge of data archival and development of data synthesis research. Supervisor: Dr. Just Cebrian.

06/2012 – 05/20/2020 — **Graduate Research Assistant**, Florida State University, Tallahassee, FL
Ongoing research of the Deepwater Horizon oil spill on deep-sea benthic assemblages off the Florida Panhandle Bight, Gulf of Mexico. Supervisor: Dr. Amy Baco-Taylor.

06/2011 – 06/2012 — **Faculty Research Assistant**, University of Maryland Center for Environmental Science, Chesapeake Biological Laboratory, Solomons, MD
Perform sediment biochemistry analysis, multivariate ecological community data analysis of benthic assemblages of the Chukchi and Bering Seas. Supervisors: Drs. Lee Cooper and Jacqueline Grebmeier.

05/2010 – 08/2010 — **Graduate Research Assistant**, SUNY Stony Brook, NY
Led a team of 7 undergraduates and high school students in studying the predation effects of two marine whelks on the bivalve, *Mercenaria mercenaria*. Supervisor: Dr. Dianna Padilla.

06/2007 - 08/2007 — **Intern**, UMBC Environmental Science Laboratory, Baltimore, MD.
Identified taxa and executed experiments studying consumer-resource dynamics of freshwater macroinvertebrate leaf detritus shredders. Supervisor: Dr. Christopher Swan.

Teaching Experience

2009 — **Teaching Assistant,** General Ecology, Fundamentals of Scientific Inquiry I

2014-2015 — **Teaching Assistant,** Current Issues in Environmental Science, Elementary Oceanography

2016 — **Teaching Assistant**, Elementary Oceanography

2017-2019 — **Teaching Assistant,** Introduction to Environmental Science Lecture and Lab

Field/Cruise Experience

Sept-Oct 2012 — Deep-C Program, FL/AL slope of DeSoto Canyon (13 days). R/V Weatherbird II.

	Multicorer deployment and recovery for sediment fauna.
Sept-Oct 2013	Deep-C Program, FL/AL slope of DeSoto Canyon (13 days). R/V Weatherbird II. Multicorer deployment and recovery for sediment fauna.
May-June 2014	Deep-C Program, FL/AL slope of DeSoto Canyon (13 days). R/V Weatherbird II. Multicorer deployment and recovery for sediment fauna.
Nov-Dec 2014	NSF cruise, Papahānaumokuākea Marine National Seamounts (50 days). R/V Sikuliaq. Multibeam collection and processing for AUV deployment, Marine mammal watch. CTD deployment and recovery.
Nov-Dec 2015	NSF cruise, Papahānaumokuākea Marine National Seamounts (50 days). R/V Ka'imikai-O-Kanaloa. Multibeam collection and processing for AUV deployment, Marine mammal watch. CTD deployment and recovery.
Oct-Nov 2016	NSF cruise, Papahānaumokuākea Marine National Seamounts (30 days). R/V Kilo Moana. HURL Pisces dives. Coral genetic sampling. Marine mammal watch. CTD deployment and recovery.

Skills

Analytical: Univariate and multivariate statistics, spatial statistics, Ocean Data View, ArcGIS, and R programming
Scientific: Taxonomic identification of benthic invertebrates, manuscript writing, editing, and publication
Miscellaneous: Adobe Illustrator, Inkscape

Outreach

2012-2013 Scientists in the Schools Program for Deep-C where I instruct middle-schoolers on aspects of marine biology.
2014 Undergraduate Research Opportunity Program – Project "Sediment Zonation Patterns of Deep-sea Macrofauna Following the Deepwater Horizon Oil Spill. Mentee: Melissa Olguin
2015 Undergraduate Research Opportunity Program – Project: "An Examination of Temporal Change in Macrofauna of the DeSoto Canyon, Gulf of Mexico". Mentee: Daniel Cardenas
2016 Undergraduate Research Opportunity Program – Project "Spatial Trends in Macrofauna Along the DeSoto Canyon." Mentee: Savannah Goode

Posters/Presentations

Baco AR, **Shantharam AK**, Rowe G, Wei C-L. A Preliminary Assessment of De Soto Canyon Sediment Macrofauna: Comparison to Baseline. Poster at Deep-C "All Hands" Meeting, Tallahassee, FL, Feb 2013.

Shantharam AK, Baco AR, Rowe G, Wei C-L. Descriptions of Macrofaunal Community Structure of the DeSoto Canyon Following the Deepwater Horizon Oil Spill. Poster at Ocean Sciences Meeting, Honolulu, HI, Feb 2014.

Shantharam AK, Baco AR. Initial Findings of Macrofaunal Community Structure within the DeSoto Canyon. Presentation at Deep-C Student Symposium, Tallahassee, FL. Sept. 2014.

Shantharam AK, Baco AR. Initial Findings of Macrofaunal Community Structure within the DeSoto Canyon. Presentation at Gulf of Mexico Oil Spill & Ecosystem Science Conference, Houston, TX. Feb. 2015.

Shantharam AK, Baco AR. Spatial and Temporal Variation in DeSoto Canyon Macrofaunal Community Structure. Poster presentation at Gulf of Mexico Oil Spill & Ecosystem Science Conference, Tampa, FL. Feb. 2016.

Shantharam, AK, Baco AR. Biogeographic and Bathymetric Patterns of Benthic Molluscs in the Gulf of Mexico. Poster Presentation at Ocean Sciences Meeting, Portland, OR. February. 2018.

Shantharam, AK, Wei, C-L, Silva, M, Baco, AR. Macrofaunal Abundance and Community Structure of the DeSoto Canyon and the Adjacent Slope. eDSBS (Deep Sea Biology Symposium). August 2020.

Publications

Shantharam, Arvind K., Padilla, DK, Peterson, BJ., et al. (2019). Macrofaunal Community Structure Following the Restocking of Northern Quahog (*Mercenaria mercenaria*) to Great South Bay, Long Island, NY. *Journal of Shellfish Research* 38.2: 259-270.

Shantharam, A.K. Baco, A.R. 2019. Biogeographic and bathymetric patterns of benthic molluscs in the Gulf of Mexico. Deep-sea Research Part I: Oceanograpic Research Papers. https://doi.org/10.1016/j.dsr.2019.103167

Shantharam, A.K., Silva, M., Wei, C.L., Baco, A.R. 2021. Macrofaunal diversity and community structure of the DeSoto Canyon and adjacent slope. DOI: https://doi.org/10.3354/meps13646.

Silver-Georges, I. Ingels, J., Valdes, Y., Pontes, L. P., Silva, A.C., **Shantharam, A**., Perry, D., Richterkessing, A., Sanchez-Zarate, S., Acevedo, L., dos Santos, G. A. P., Gillis, A. J., Ceriani, S. A., Fuentes, M. M. P. B. 2021. Epibionts reflect spatial and foraging ecology of Gulf of Mexico loggerhead turtles (*Caretta caretta*). Frontiers in Ecology and Evolution. https://doi.org/10.3389/fevo.2021.696412

Shantharam, A.K., Baco, A.R. Interannual temporal patterms of DeSoto Canyon Macrofauna and resilience to the Deepwater Horizon oil spill. Deep-sea Research Part I: Oceanographic Research Papers. In revision.

Grants/Fiscal Awards 2014. "Food Web Delineation and Diet Reconstruction of DeSoto Canyon Macrofauna Communities following the Deepwater Horizon Oil Spill." Florida Sea Grant. $4000

Honors

2014 Gulf of Mexico Research Initiative Scholar
2015 Golden Key International Honor Society

References

Dr. Amy Baco-Taylor
Associate Professor
Biological Oceanography
abacotaylor@fsu.edu
(850) 645-1547

Dr. Dianna Padilla
Professor
Ecology and Evolution
Dianna.Padilla@stonybrook.edu
(631) 632-7434

Dr. Jeroen Ingels
Research Faculty I
FSU Coastal and Marine Laboratory
jingels@fsu.edu
(850) 697-4092