

Paulinus Chigbu, Ph.D

UNIVERSITY OF MARYLAND EASTERN SHORE
NOAA LIVING MARINE RESOURCES COOPERATIVE SCIENCE CENTER
CARVER HALL
PRINCESS ANNE, MARYLAND 21853-1299
Email: pchigbu@umes.edu Phone: (410) 621-3034; Fax: (410) 651-7739

ACADEMIC POSITION

- **Associate Dean** for Research, Development and Graduate Education, School of Agricultural and Natural Sciences. August 2020 – Present.
- **Professor** of Marine and Environmental Science July 2007 – Present.
- **Director**, NOAA Living Marine Resources Cooperative Science Center, University of Maryland Eastern Shore. January 2006 – Present.
- **Director**, NSF Center for Research Excellence in Science and Technology (CREST): Center for the Study of Coastal Ecosystem Processes and Dynamics in the Mid-Atlantic Region. 2010 – Present.
- **Director**, Coastal Ecology Teaching and Research Center (CETRC), University of Maryland Eastern Shore. 2007 – 2008.
- **Associate Professor** (with tenure) of Environmental Science & Director, NOAA Living Marine Resources Cooperative Science Center, University of Maryland Eastern Shore. January 2006 – June 2007.
- **Associate Professor** of Biology & Director, Marine Science Program, Jackson State University, Jackson, MS. 2003 – December 2005; tenured in 2004
- **Assistant Professor** of Biology & Director, Marine Science Program, Jackson State University, Jackson, MS. 1998 – 2003.
- **Visiting Faculty**, Department of Biology, Elizabeth City State University, North Carolina (1996 – 97).

EDUCATION

- **Ph.D., Fisheries.** University of Washington, Seattle 1993
- **M.Sc. Zoology** (Hydrobiology). University of Benin, Nigeria 1987
- **B.Sc. Zoology** (First Class Honors). University of Benin, Nigeria 1984

HONORS/SCHOLARSHIPS/FELLOWSHIPS/AWARDS (Selected)

- University System of Maryland Wilson H. Elkins Professor of Marine Science - UMES (2019-2020).
- United States Presidential Award for Excellence in Science, Mathematics and Engineering Mentoring (2018).
- University System of Maryland Board of Regents Excellence in Mentoring Faculty Award (2016).
- University of Maryland Eastern Shore Distinguished Service Award in recognition of dedication toward advancing minorities in marine sciences, October 2016.
- Distinguished Scholar Award, University of Maryland Eastern Shore Graduate School, 2011.

- Research Innovation Award, Jackson State University, 2005.
- Mason Keeler Endowment for Excellence Fellowship, School of Fisheries, University of Washington (UW), Seattle, 1991 - 1993.
- Chapman Memorial Scholarship, School of Fisheries, UW, Seattle, 1990.
- Electric Power Research Institute (EPRI) Sport Fishing Institute Research Fellowship, 1989 – 1992.
- Cobb Scholarship, School of Fisheries, UW, Seattle, 1989.
- American Society of Limnology and Oceanography (ASLO) Travel Award, 1989.
- Fulbright Scholarship, 1987 - 1992.

MEMBERSHIP OF NATIONAL BOARDS/EXTERNAL REVIEW PANELS

- Member, National Sea Grant Advisory Board (2013 to Present)
- Technical Advisor to the Advisory Committee to the United States National Section, International Committee for the Conservation of Atlantic Tunas (ICCAT), February 2011 - 2014.
- Member, External Review Panel, Cooperative Institute for Marine Ecosystems and Climate (CIMEC), Scripps Institute of Oceanography, University of California, San Diego; February 6-7, 2014.
- Co-Chair, Mississippi-Alabama Sea Grant Program Review, April 1,2, 2015.
- Co-Chair, South Carolina Sea Grant Consortium Review, August 1,2, 2015
- Co-Chair, Virginia Sea Grant Program Site Review Team, October 22-25, 2018
- Co-Chair, Georgia Sea Grant Program Site Review Team, April 15-18, 2019
- Co-Chair, California Sea Grant Site Review Team (November 18-21, 2019)

OTHER ADMINISTRATIVE EXPERIENCES AND POSITIONS (Selected)

- Director, UMES Professional Science Master's degree Program in Quantitative Fisheries and Resource Economics, 2010 – present.
- Director, Research Experiences for Undergraduates (REU) in Marine and Estuarine Sciences, 2009 – present.
- Member, University System of Maryland Marine, Estuarine and Environmental Science (MEES) Program Review Committee, 2007-2009.
- Member, organizing committee of the Florida A&M University/NOAA EPP Educational and Research Forum held at FAMU, October 31 to November 2, 2006.
- Chair, Marine Sciences Session II at the Florida A&M University/NOAA EPP Educational and Research Forum held at FAMU, October 31 to November 2, 2006.
- Chair, Marine and Atmospheric Sciences Division, Mississippi Academy of Sciences, 2005-2006.
- Vice Chair, Marine and Atmospheric Sciences Division, Mississippi Academy of Sciences, 2004-2005.
- Member, Steering Committee, Expanding Opportunities in Oceanic and Atmospheric Sciences (2003).
- Jackson State University (JSU) Site Coordinator, Louis Stokes Mississippi Alliance for Minority Participation (LSMAMP), 1999 - 2002.
- JSU Program Coordinator, Office of Naval Research – Interns in Biomolecular Sciences, 2002 - 2005.

- JSU Program Coordinator, University of Southern Mississippi - Jackson State University Research Experiences for Undergraduate (REU) Minorities in Marine and Coastal Sciences, 2000 - 2003.
- Project Director, NOAA-NESDIS Environmental Risks Assessment Integrative Systems Approach (ERAISA) Project, Jackson State University, 2002 – 2005.
- Project Director, NOAA - JSU Fisheries Stock Assessment Program (2001 – 2004)
- Secretary/Treasurer, American Fisheries Society, Mississippi Chapter (2000 - 2001).
- Member of Governing Council, United States-South Africa Education Partnership, US Department of Commerce, 1998-2001.

Published (Selected): *Students; +Post-doc.

1. Parveen, S., Jacobs, J., Ozbay, G., Chintapenta, K., Almuhaideb, E., Meredith, J., Ossai, S., Abbott, A., Grant, A., Brohawn, K., **Chigbu, P.** and Richards, G.P. (2020). Seasonal and geographical differences in total and pathogenic *Vibrio parahaemolyticus* and *Vibrio vulnificus* levels in the Mid-Atlantic area as determined by several methods. *Applied and Environmental Microbiology*. 86(23):e01581-20. doi: 10.1128/AEM.01581-20.
2. Edje, B.*, Ishaque, A.B. and **Chigbu, P.** (2020). Spatial and temporal patterns of $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ of suspended particulate organic matter in Maryland Coastal Bays, USA. *Water*, 12: 2345; doi: 10.3390/w12092345.
3. Gurung, D.*, Chen, N., Waguespack, Y., Ruby, D., Ishaque, A. and **Chigbu, P.** (2020). Phosphorus speciation and bioavailability in the surface sediments of Maryland Coastal Bays. *Journal of Coastal Research*, In Press. <https://doi.org/10.2112/JCOASTRES-D-19-00131.1>.
4. **Chigbu, P.**, Malinis, L.*, Malagon, H.* and Doctor, S. (2019). Influence of temperature on the occurrence and distribution of sand shrimp (*Crangon septemspinosa*) in mid-Atlantic Coastal Lagoons. *Journal of Crustacean Biology*. 39(5): 586-593.
5. Oghenekaro, E.U.* and **Chigbu, P.** (2019). Population dynamics and life history of marine Cladocera in the Maryland Coastal Bays. *Journal of Coastal Research*. 35(6): 1225-1236.
6. Morales-Núñez, A.G.+ and **Chigbu, P.** (2019). Abundance, distribution and species composition of amphipods associated with macroalgae from shallow waters of the Maryland Coastal Bays (MCBs). *Marine Biodiversity* 49(1): 175-191.
7. Oseji, O.F.*, Fan, C., and **Chigbu, P.** (2019). Composition and dynamics of phytoplankton in the Coastal Bays of Maryland revealed by microscopic counts and diagnostic pigments. *Water* 11(2): 368. <http://dx.doi.org/10.3390/w11020368>
8. Oghenekaro, E.U.* and **Chigbu, P.** (2019). Dynamics of mesozooplankton assemblage in relation to environmental factors in the Maryland Coastal Bays. *Water* 11(10): 2133.

9. Morales-Núñez, A.G.⁺ and **Chigbu, P.** (2018). First record of the isopod *Ianiropsis* cf. *serricaudis* (Crustacea: Peracarida: Janiridae) in Maryland Coastal Bays, USA. *ZooKeys* 747: 115-139.
10. Mayor, E.D.* and **Chigbu, P.** (2018). Mysid shrimp dynamics in relation to abiotic and biotic factors in the coastal lagoons of Maryland, Mid-West Atlantic. *Marine Biology Research*. 14(3): 1-16.
11. Oseji, O.F.*, **Chigbu, P.**, Oghenekaro, E., Waguespack, Y., and Chen, N. (2018). Spatial and temporal patterns of phytoplankton composition and abundance in the Maryland Coastal Bays: the influence of freshwater discharge and anthropogenic activities. *Estuarine, Coastal and Shelf Science* 207: 119-131.
12. Oghenekaro, E.U.*, **Chigbu, P.**, Oseji, O.F., and Tang, K.W. (2018). Seasonal factors Influencing the abundance of copepods in the Maryland Coastal Bays. *Estuaries and Coasts*, 41(2): 495-506.
13. Reddy, R.S., Lu, D., Fadavi, M., Tchounwou, P. and **Chigbu, P.** (2018). Environmental modeling and prediction for climate and seasonal fluctuations over the Grand Bay of Gulf of Mexico. *Journal of the Mississippi Academy of Sciences*. 63(3-4): 344-352.
14. Peters, R.* and **Chigbu, P.** (2017). Spatial and temporal patterns of abundance of juvenile black sea bass (*Centropristis striata*) in Maryland Coastal Bays. *Fishery Bulletin* 115: 504–516.
15. Kang, X.*, Xia, M., Pitula, J.S. and **Chigbu, P.** (2017). Dynamics of water and salt exchange in Maryland Coastal Bays. *Estuarine, Coastal and Shelf Science* 189: 1-16.
16. Mayor, E.*, **Chigbu, P.**, Pierson, J., and Kennedy, V.S. (2017). Composition, abundance and life history of mysids (Crustacea: Mysidacea) in the coastal lagoons of Maryland, USA. *Estuaries and Coasts* 40: 224–234.
17. Morales-Núñez A.G.⁺ and **Chigbu, P.** (2016). Life history of *Dulichella appendiculata* (Say, 1818) (Amphipoda, Senticaudata, Melitidae) in Maryland Coastal Bays, USA. *Aquatic Biology* 25: 75–82.
18. Morales-Núñez A.G.⁺ and **Chigbu, P.** (2016). A new species of *Apolochus* Hoover & Bousfield, 2001 (Crustacea: Amphipoda: Amphilochidae) from the Maryland Coastal Bays (MCBs), USA. *ZooKeys* 571: 81-104.
19. Duan, S., Chen, N., Kaushal, S., **Chigbu, P.**, Ishaque, A., May, E. and Oseji, O.F.* (2015). Dynamics of dissolved organic carbon and nitrogen in the Maryland Coastal Bays. *Estuarine, Coastal and Shelf Science* 16: 451-462.
20. Rodgers, C*., Parveen, S., **Chigbu, P.**, Jacobs, J., Harter-Dennis, J. and Rhodes, M. (2014). Prevalence of *Vibrio parahaemolyticus*, and *V. vulnificus* in Blue Crabs (*Callinectes sapidus*), seawater, and sediments of the Maryland Coastal Bays. *J. Appl. Microbiol.* 117(4): 1198-1209.
21. Ciannelli, L., Hunsicker, M., Beaudreau, A., Bailey, K., Crowder, L., Finley, C., Webb, C., Reynolds, J., Sagmiller, K., Anderies, J.M., Hawthorne, D., Parrish, J., Heppell, S., Conway, F., and **Chigbu, P.** (2014). Transdisciplinary graduate training in marine resource science and management. *ICES Journal of Marine Science*, doi: 10.1093/icesjms/fsu067, April 2014.
22. **Chigbu, P.** and Parveen, S. (2014). *Bacteriological Analysis of Water*. In L.M.L. Nollet and L.S.P. De Gelder (editors). *Handbook of Water Analysis*. Third Edition. CRC Press, Taylor & Francis Group, Boca Raton, New York.

23. **Chigbu, P.**, Love, J.W. and Newhard, J.J.* (2009). Effects of *El Niño* Southern Oscillation (ENSO) on marine fish and shellfish populations and their habitats in North America. In John A. Long and David S. Wells (Editors): *Ocean Circulation & El Nino: New Research*. Nova Science Publishers, Inc. ISBN: 978-1-60692-084-8.
24. Love, J.W., **Chigbu, P.** and May, E.B. (2009). Environmental variability affects distributions of coastal fish species (Maryland, USA). *Northeast Naturalist* 16(2): 255-268.
25. **Chigbu, P.**, Jearld, A. and Fogarty, M.J. (2007). National Oceanic and Atmospheric Administration and Jackson State University Program in Fish Stock Assessment. *Journal of Geoscience Education*, 55: 541-549.
26. **Chigbu, P.** and Sobolev, D. (2007). *Bacteriological Analysis of Water*. In L.M.L. Nollet (editor). Handbook of Water Analysis. Second Edition. CRC Press, Boca Raton, New York.
27. **Chigbu, P.**, Strange, T., Gordon, S., Jester, K., Baham, J., Young, J., Hughes, R., Remata, R., Martinolich, K., Hilbert, K., Mott, D.K., Watts, M. and McIntosh, M. (2006). A decision support tool for shellfish management in Mississippi Sound. *Journal of Shellfish Research* 25(3): 1091-1099.
28. **Chigbu, P.** and Suchar, V.A.* (2006). The isolation and culture of *Colurella dicentra* from a Mississippi Gulf Coast Estuary. *Aquaculture Research* 37: 1400-1405.
29. Suchar, V.A.* and **Chigbu, P.** (2006). The effects of algae species and densities on the population growth of the marine rotifer, *Colurella dicentra*. *Journal of Experimental Marine Biology and Ecology* 337(1): 96-102.
30. Kishinhi, S.* , Tchounwou, P.B., Farah, I.O. and **Chigbu, P.** (2006). Recreational Water Quality Control in Mississippi, USA: Bacteriological assessment in the Pearl River and Ross Barnett Reservoir. *Reviews on Environmental Health* 21(4): 293-305.
31. **Chigbu, P.**, Gordon, S., and Strange, T. (2005). Fecal coliform bacteria disappearance rates in a north-central Gulf of Mexico Estuary. *Estuarine, Coastal and Shelf Science* 65: 309-318.
32. **Chigbu, P.**, Gordon, S. and Tchounwou, P.B. (2005). Seasonal patterns of fecal coliform bacteria pollution and its influence on closures of shellfish harvesting areas in Mississippi Sound. *International Journal of Environmental Research and Public Health* 2(2): 362-373.
33. **Chigbu, P.**, Gordon, S., and Strange, T. (2004). Influence of inter-annual variations in climatic factors on fecal coliform levels in Mississippi Sound. *Water Research* 38 (20): 4341-4352.
34. **Chigbu, P.** (2004). Assessment of the Potential Impact of the Mysid Shrimp, *Neomysis mercedis*, on *Daphnia*. *Journal of Plankton Research* 26(3): 295-306.
35. **Chigbu, P.**, Ogle, J.T., Lotz, J.M. & Coleman, E.L.* 2002. Some aspects of the culture of red snapper (*Lutjanus campechanus*). *Proceedings of the 53rd Annual Gulf and Caribbean Fisheries Institute*, 228-233.
36. **Chigbu, P.** 2001. Occurrence and distribution of *Salmincola californiensis* (Copepoda: Lernaeopodidae) on Juvenile Sockeye Salmon (*Oncorhynchus nerka*) in Lake Washington. *Journal of Freshwater Ecology* 16(4): 615-620.
37. **Chigbu, P.** 2000. Population biology of longfin smelt, and aspects of the ecology of other major planktivorous fishes in Lake Washington. *Journal of Freshwater Ecology* 15(4): 543-557.

38. **Chigbu, P.**, Sibley, T.H. and Beauchamp, D.A. 1998. Abundance and distribution of *Neomysis mercedis* and a major predator, longfin smelt (*Spirinchus thaleichthys*) in Lake Washington. *Hydrobiologia* 386: 167-182.
39. **Chigbu, P.** and Sibley, T.H. 1998. Feeding ecology of longfin smelt (*Spirinchus thaleichthys*) in Lake Washington. *Fisheries Research* 38: 109-119.
40. **Chigbu, P.** and Sibley, T.H. 1998. Predation by longfin smelt (*Spirinchus thaleichthys*) on the mysid *Neomysis mercedis* in Lake Washington. *Freshwater Biology* 40: 295-304.
41. **Chigbu, P.** and Sibley, T.H. 1996. Biometrical relationships, energy content and biochemical composition of *Neomysis mercedis* in Lake Washington. *Hydrobiologia* 337: 145-150.
42. **Chigbu, P.** and Sibley, T.H. 1994. Relationship between abundance, growth, fecundity and egg size in a land-locked population of longfin smelt (*Spirinchus thaleichthys*). *Journal of Fish Biology* 45: 1-15.
43. **Chigbu, P.** and Sibley, T.H. 1994. Predation by *Neomysis mercedis*: Effects of temperature, *Daphnia magna* size and prey density on ingestion rate and size selectivity. *Freshwater Biology* 32: 39-48.
44. **Chigbu, P.** and Sibley, T.H. 1994. Diet and growth of longfin smelt and juvenile sockeye salmon in Lake Washington. *Internationale Vereinigung fur Theoretische und Angewandte Limnologie* 25: 2086-2091.
45. Sibley, T.H. and **Chigbu, P.** 1994. Feeding behavior of longfin smelt *Spirinchus thaleichthys* may affect water quality and salmon production in Lake Washington. *Lake and Reservoir Management* 9: 145-148.
46. Egborge, A.B.M., Onwudinjo, C.S. and **Chigbu, P.C.** 1994. Cladocera of coastal rivers of Western Nigeria. *Hydrobiologia* 272: 39-46.
47. Egborge, A.B.M. and **Chigbu, P.** 1988. The rotifers of Ikpoba River, Bendel State. *The Nigerian Field*. 53: 117-132.

MEMBERSHIP OF EDITORIAL BOARDS

1. Review Editors Member, Frontiers in Environmental Health; 2013 - present
<http://www.frontiersin.org/Journal/EditorialBoard.aspx>

JOURNAL ARTICLE REVIEWS

I have reviewed articles for publication in the:

- *Journal of Experimental Marine Biology and Ecology*
- *North American Journal of Aquaculture*
- *Journal of Fish Biology*
- *Environmental Toxicology*
- *Journal of the Mississippi Academy of Sciences*
- *Transactions of the American Fisheries Society*
- *International Journal of Environmental Research and Public Health*
- *Journal of Applied Phycology*
- *Water Research*
- *Water, Air and Soil Pollution*
- *Estuarine Coastal and Shelf Science*
- *Aquatic Biology*

- *Experimental Biology and Medicine*
- *Journal of Environmental Management*
- *Pakistan Journal of Scientific and Industrial Research*
- *Oceanography –The Official Magazine of the Oceanography Society*
- *Frontiers in Ecology and the Environment*

PROPOSAL REVIEWS

For the:

- *NSF REU Site review Panel*
- *NSF EPSCOR Adhoc Proposal Review*
- *NOAA Saltonstall-Kennedy Competitive Research Program*
- *NSF S-STEM panel review*
- *REU site proposal reviews*
- *NSF Reverse Site visit panelist for EPSCOR site*
- *National Defense Science and Engineering Graduate Fellowship Program as a panelist*
- *Panel that Reviewed the NSF Graduate Research Fellowship Program, Division of Graduate Education*
- *National Science Foundation (NSF) CREST Reverse Site Review Panel as a panelist*
- *National Science Foundation (NSF), Ocean Sciences Division as an external reviewer*
- *NSF Ecology Program, as an external reviewer*
- *NSF Environmental Biology (Ecology Division). CAREER Proposals (as an external reviewer)*
- *NSF Math and Science Partnership Program, as a panelist*
- *NSF Graduate Research Fellowship Program as a panelist*
- *US Department of Agriculture (USDA), Animal Growth and Nutrition, as an external reviewer*
- *Mississippi-Alabama Sea Grant Consortium (MASGC) Grant, Technical Review Committee*
- *New York Sea Grant External Reviewer of Proposals*
- *Mississippi-Alabama Sea Grant Consortium (MASGC), Graduate Fellowship Program, as a panelist*
- *The Delta Science Program (formerly CALFED Science Program), California*
- *Commercial Fisheries Research Foundation through the Southern New England Collaborative Research Initiative Proposal Review Panel, Administered by University of Rhode Island Sea Grant*
- *Reviewer, NOAA's Broad Agency Announcement Proposal*
- *Maine Sea Grant External Reviewer of Proposals*

MEMBERSHIP OF PROFESSIONAL AND SCIENTIFIC SOCIETIES

- *American Fisheries Society*
- *Association of the Science of Limnology and Oceanography*
- *Coastal and Estuarine Research Federation*

GRANTS (AS PRINCIPAL OR CO-PRINCIPAL INVESTIGATOR)

Grants Funded at UMES

(i) **Title:** *NOAA Living Marine Resources Cooperative Science Center*

Role: PI: Paulinus Chigbu (UMES)

Co-PI: Bradley Stevens (UMES);

Co-PI: Stacy Smith (DSU)

Co-PI: Dionne Hoskins (SSU);

Co-PI: Rosemary Jagus (UMCES-IMET)

Co-PI: Dionne Hoskins (HU);

Co-PI: David Die (RSMAS)

Funding Agency: NOAA EPP;

Total Amount: \$15 million

Duration: September 1, 2011 to August 31, 2016.

(ii) **Title:** *NOAA Living Marine Resources Cooperative Science Center*

Role: PI: Paulinus Chigbu (UMES)

Co-PI: Bradley Stevens (UMES); Co-PI: Stacy Smith (DSU)

Co-PI: Dionne Hoskins (SSU); Co-PI: Rosemary Jagus (UMCES-IMET)

Co-PI: Deidre Gibson (HU); Co-PI: David Die (RSMAS)

Funding Agency: NOAA EPP; **Amount:** \$15 million

Duration: September 1, 2011 to August 31, 2016.

(iii) **Title:** *CREST Center for the Integrated Study of Coastal Ecosystem Processes and Dynamics*

Role: Principal Investigator (Co-PIs: Ali Ishaque, Salina Parveen, Margaret Sexton, Meng Xia)

Funding Agency: NSF; **Amount:** ~\$5million

Duration: October 1, 2015 to September 30, 2021

(iv) **Title:** *CREST Center for the Integrated Study of Coastal Ecosystem Processes and Dynamics*

Role: Principal Investigator (Co-PIs: Eric May, Joseph Pitula, Andrea Johnson, M. Mitra)

Funding Agency: NSF; **Amount:** ~\$5million

Duration: October 1, 2010 to September 30, 2015.

(v) **Title:** *Professional Science Master's Degree Program in Quantitative Fisheries & Resource Economics*

Role: Principal Investigator (Co-PIs: Joseph Okoh, Jennifer Keane-Dawes, Kristy Wallmo, David Die)

Funding Agency: NSF; **Amount:** ~\$700,000

Duration: June 1, 2010 to May 30, 2013.

(vi) **Title:** *Research Experiences for Undergraduates (REU) Site in Marine and Estuarine Science: University of Maryland Eastern Shore*

Role: Principal Investigator (Co-Principal Investigator: Dr. Joseph Love, 2009-2012; Co-Principal Investigator: Dr. Eric May, 2012-2015; Co-Principal Investigator: Dr. Maggie Sexton, 2015-present)

Funding Agency: NSF; **Amount:** \$231,521; \$262,000; \$282,000; \$298,906

Duration: June 1, 2009 to May 30, 2012; 2012 – 2015; 2015 – 2018; 2018 - 2021

(vii) Title: NOAA Living Marine Resources Cooperative Science Center

Role: Principal Investigator

Co-PI: Eric May (UMES);

Co-PI: Dionne Hoskins (SSU);

Co-PI: George Burbank (HU);

Co-PI: Dewayne Fox (DSU)

Co-PI: Rosemary Jagus (COMB)

Co-PI: David Die (RSMAS)

Funding Agency: NOAA EPP;

Total Amount: \$12.5 million

Duration: September 1, 2006 to August 31, 2011.

(viii) Title: Establishment of a Network of Cooperative Science Centers and High Schools for Training High School Students in Geosciences

Role: Principal Investigator (Co-Principal Investigators: Ali B. Ishaque and Reza Khanbilvardi)

Agency: NSF

Amount: \$500,000/3yr

Duration: 2012 to 2015

(ix) Title: A Rapid, User Friendly Method for Detection of Total Vibrionaceae as an Indicator of Pathogenic Vibrio species in Oysters and Seawater.

Role: Co-Principal Investigator (PI: Salina Parveen)

Agency: USDA-NIFA

Amount: \$479,672/3yr

Duration: 9/1/14 to 8/31/17

(x) Title: GP-IMPACT: Strengthening Pathways into Geosciences through Summer Bridge and Undergraduate Training Programs

Role: Principal Investigator (Co-PIs: Ali B. Ishaque, Reza Khanbilvardi, Vernon Morris, Michael Abazinge, Erik Zettler)

Agency: NSF

Amount: \$485,000

Duration: 9/1/15 – 8/31/18

(xi) Title: Shewanella Species as Potential Emerging Pathogens in Oysters and Seawater from Apalachicola, Chesapeake and Maryland Coastal Bays

Role: Co-Principal Investigator (Principal Investigator; Salina Parveen)

Agency: USDA

Amount: \$499,999

Duration: 2017 – 2021

(xii) Title: Student Airborne Science Activation for MSI (SaSa)

Role: Co-Principal Investigator (Principal Investigator; Charles Gatebe, NASA)

Agency: NASA

Amount: \$158,335 (UMES portion)

Duration: 2021 – 2026

Grants Funded at Jackson State University

(i) UBM: Interdisciplinary training of undergraduates in biological and mathematical sciences with emphasis on fisheries stock assessment.

- I served as the **Principal Investigator** of the grant (until 2006 when I relocated to UMES)
- **Total Amount of Award** = \$300,000 (2005-2008).
- **Funding Agency** = National Science Foundation.

(ii) NOAA EPP High School Pipeline Project to Increase the Number of Minorities Underrepresented in Geosciences: Careers in Aquatic, Fisheries and Atmospheric Sciences.

- I served as the **Principal Investigator** of the grant (until 2006 when I relocated to UMES)
- **Total Amount of Award** = \$499,000 (2005-2010).
- **Funding Agency** = NOAA

(iii) Environmental Cooperative Science Center for Regional Studies in Sustainable Management of Coastal and Marine Habitats for Policy Decision Making

- I served as the **Co-Principal Investigator** of the grant.
- **Total Amount of Award** = \$1,220,000 (2001-2006)
- **Funding Agency** = NOAA through Florida A&M University

(iv) LSMAMP Phase III Grant.

- I served as the **Co-Principal Investigator** of the grant from 2001-2002 (The PI was Dr. Richard Sullivan, Jackson State University).
- **Total Amount of Award** = \$1.5 million (2001-2006).
- **Funding Agency** = NSF

(v) Environmental Risk Assessment Integrative Systems Approach (ERAISA) with GIS/RS

- I served as the **Co-Principal Investigator and Director** of the grant (The PI was Dr. Abdul K. Mohamed)
- **Total Amount of Award** = \$2,375,000 (2001-2005)
- **Funding Agency** = NOAA/NESDIS

(vi) Office of Naval Research Interns in Biomolecular Sciences Research Enhancement Program.

- I served as **Co-Principal Investigator** of the grant (The PI was Dr. Mario Garcia-Rios, Texas A& M International, Laredo, TX).

- **Total Amount of Award** = \$29,662 (2000-2001), \$29,662 (2001-2002), \$93,191 (2002-2005).
 - **Funding Agency** = ONR
- (vii) *Enhancement of the Marine Educational Opportunities for K-12 teachers and students in Jackson, MS.*
- I served as the **Principal Investigator** of the grant
 - **Total Amount of Award** = \$10,000 (2004-2005).
 - **Funding Agency** = Mississippi-Alabama Sea Grant
- (viii) *NOAA EPP/MSI Environmental Entrepreneurship Program: Program Development and Enhancement in Fisheries Stock Assessment.*
- I served as the **Principal Investigator** of the grant (The Co-PIs were Drs. Ambrose Jearld Jr. & Michael Fogarty, NOAA NEFSC Woods Hole).
 - **Total Amount of Award** = \$249,986 (2001-2004).
 - **Funding Agency** = NOAA
- (ix) *Sea Grant MSI-Partnership Program to Strengthen Marine Science Program at JSU.*
- I served as the **Principal Investigator** of this grant.
 - **Total Amount of Award** = \$189,000 (2000-2004).
 - **Funding Agency** = NOAA-Sea Grant.
- (x) *USM-JSU Research Experience for Undergraduates (REU) in Marine and Coastal Sciences.*
- I served as the **Co-Principal Investigator** of the grant (The PI was Dr. Chet Rakocinski, University of Southern Mississippi-GCRL).
 - **Total Amount of Award** = \$257,064 (2000-2004).
 - **Funding Agency** = NSF
- (xi) *US Gulf of Mexico Marine Stock Enhancement Project*
- I served as the Project Director of the grant (Dr. Abdul Mohamed was the PI).
 - **Total Amount of Award** = \$400,000 (1999-2005).
 - **Funding Agency** = NOAA through USM-GCRL