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## **Education**

### **Ph. D. of Science in Biological Oceanography (Candidate)**

2002 to present University of Puerto Rico, Mayagüez Campus, Mayagüez, Puerto Rico.  
Major – Phytoplankton Ecology, Primary Production, Marine Optics and Remote Sensing

### **Master of Science in Biology (Population Ecology)**

1995- 1998 University of Puerto Rico, Mayagüez Campus, Mayagüez, Puerto Rico.

### **Bachelor of Science in Biology (Zoology)**

1990- 1994 University of Puerto Rico, Mayagüez Campus, Mayagüez, Puerto Rico.

## **Professional Experience**

### **Research Assistant**

January 2008 to the present. University of Puerto Rico NOAA-Crest Program  
Development of a GIS database for Mayaguez Bay and its implementation in GERSVIEW

### **Research Assistant**

August 2002 to the present. Marine Sciences Department of the University of Puerto Rico.  
Biological Oceanography research on phytoplankton ecology, primary production and bio-optics.

### **Research Assistant (GIS and Remote Sensing)**

June to August 2005. U.S. Geological Survey, St. Petersburg Florida. Research on benthic mapping and remote sensing of coral reefs on the Dry Tortuga National Park of the Florida Keys.

### **Professor (Lecturer)**

August to December 2002 and 2003 University of Puerto Rico Mayagüez Campus, Mayagüez, Puerto Rico. Lectures of Biology for non-Biology major students.

### **Science Teacher (Biology)**

September 2001 to June 2002 Rochester City School District, Rochester New York.

### **Professor (Lecturer)**

August 1999 to May 2001 Interamerican University of Puerto Rico. Teaching of zoology, genetics and undergraduate seminar.

### **Professor**

August to December 1998 University of Puerto Rico Mayagüez Campus, Mayagüez, Puerto Rico. Teaching Biology laboratories for biology major students.

### **Teaching Assistant**

1995- 1998 University of Puerto Rico, Mayagüez Campus, Mayagüez, Puerto Rico.  
Teaching of Biology laboratories for Biology major students.

## Oceanographic Research Cruises

### **Orinoco River Plum Experiment (ORIPLEX VII and ORIPLEX VIII)**

November 2005 and September 17-25 2006. Sponsored by the Marine Sciences Department of the University of Puerto Rico, the Office of Naval Research, US DOD, Louisiana Universities Marine Consortium (LUMCOM), University of South Florida, Rutgers Marine And Coastal Sciences and the Virginia Institute of Marine Sciences.

### **Caribbean Vortex experiment expeditions(CAVORTEX 2,3,4,5)**

June 21-25, 2004 , February 14-17, 2005 March 12-21, 2005, August 28-September 9, 2006. Sponsored by the Marine Sciences Department of the University of Puerto Rico, the Office of Naval Research, US DOD and the Louisiana Universities Marine Consortium (LUMCOM).

### **Saharan Dust Aerosol and Ocean Science Expedition (AEROSE)**

February 29 to March 27, 2004 Sponsored by the University of Puerto Rico at Mayagüez, NOAA (NESDIS and NCAS) and the “Instituto Canario de Ciencias Marinas” at Las Palmas de Gran Canaria, Canary Islands, Spain.

### **Caribbean Vortex experiment expedition (CAVORTEX)**

August 11-19, 2003 Sponsored by the Marine Sciences Department of the University of Puerto Rico and the Office of Naval Research.

## Publications

August, 2008 Poster Presentation “Fast Repetition rate fluorometry and beam attenuation to chlorophyll ratio, an optical index of phytoplankton photosynthetic potential at Caribbean mesoscale eddies” CoRP Science Symposium in Corvallis, Oregon.

March, 2008 Poster Presentation “Phytoplankton photosynthetic Competency in Caribbean Se Mesoscale Eddies as measured by fast repetition rate fluorometry” ASLO Ocean Sciences Meeting in Orlando, Florida.

March 12, 2005 Poster Presentation “Phytoplankton photosynthetic efficiency in the Tropical Ocean” presented at the AGEP-PR Annual Conference, University of Puerto Rico at Mayagüez.

October 23, 2004 Poster Presentation “AEROSE 2004 Bio Optical Oceanography” presented at Education and Science forum 2004 NOAA EPP/MSI, The City College of New York.

April 2003 Presentation of Project “Análisis de cobertura agrícola y predicción de cambios de uso en el área de la cuenca del Río Guanajibo durante el periodo comprendido desde 1992 y 2000. Biological Applications of Remote Sensing and Geographical Information Systems (GIS) Course. May 2004 Presentation “Ocean Color and MODIS” Course Remote Sensing and Oceanography I.

## Professional Development

### **Course: Application of Remote and In-situ Ocean Optical Measurements to Ocean Biogeochemistry.**

July 2007. Darling Marine Center at the University Of Maine. (Course sponsored by NASA and the University of Maine with the goal of preparing a new generation of oceanographers trained in the use of optics to study the oceans.)

### **Course: Radioactive Material Management Seminar**

September 2003 and February 2004. University of Puerto Rico at Mayagüez. Two Four hour seminars.

**Course: Biological Applications of Remote Sensing and Geographical Information Systems**  
January- May 2002 Biology Department University of Puerto Rico, Mayagüez Campus.

**Course: Remote Sensing and Oceanography I and II**

August 2003 to May 2004. Marine Sciences Department of Puerto Rico, Mayagüez Campus.

**Course: Marine Mammals Ecology and Management Course**

July- August 1995. Duke University , North Carolina. Research focused on ecology, social organization, behavior, acoustic communication, and management issues of marine mammals in the southeastern United States.

**Skills**

Open Water Scuba Diver PADI 12/93  
Enriched Air Diving Certification PADI 2005

Familiar with:

Matlab Programing environment

Geographical Information Systems

Literate in Computer software and languages:

Matlab, ArcView, SEADAS, ENVI, Microsoft office,

Microcal Origin and Golden Software Surfer 8

Languages

Spanish- First Language

English-Second Language

**OTHER INFORMATION**

**Extracurricular activities**

Tour guide, speaker and small boat operator for Marine Sciences Department on the La Parguera Keys and Reefs ecology.

**Hobbies**

norkeling, geochaching, fishing, hiking, cooking, woodworking and Camping.

**REFERENCES**

Available Upon Request