

## Yasmín Detrés, Ph.D.

### CONTACT INFORMATION

Mailing Address: Department of Marine Sciences  
University of Puerto Rico  
P. O. Box 9013  
Mayagüez, P.R. 00681-9013

E-mail: [ydetres@gmail.com](mailto:ydetres@gmail.com)

Phone: (787) 899-2048 ext. 283

Fax: (787) 899-2630

### ACADEMIC & PROFESSIONAL ESSENTIAL

#### Academic Background

- Postdoctoral, 2001-2003. University of Puerto Rico, Mayagüez Campus, P.R. Department of Marine Sciences (Bio Optical Oceanography). Research focus: *Saharan Dust Microbiology*.
- Ph.D. 2001. University of Puerto Rico, Mayagüez Campus, P.R. Marine Sciences (Concentration Biological Oceanography). Research focus: *Effects of Ultraviolet Radiation in Tropical Marine Ecosystems, Evaluation of Photoprotective Mechanisms*.
- M.S. 1988. University of Puerto Rico, Mayagüez Campus, P.R. Marine Sciences (Concentration Biological Oceanography). Research focus: *Marine Botany and Ecology*

#### Professional Experience

- Researcher, Bio Optical Oceanography, Department of Marine Sciences, University of Puerto Rico, Mayagüez Campus, 2003-present.
- CO - Principal Investigator, NOAA Atmospheric Sciences Cooperative Science Center (University of Puerto Rico component). Research focus: Impact of Saharan Dust in the Eastern Caribbean (microbiology, remote sensing, atmospheric sampling and aerosol characterization, impact of aerosols to radiative transfer of visible and ultraviolet light). 2005 – present.
- Director, Puerto Rico Weather Camp 2007 & 2008, NOAA Center for Atmospheric Sciences (NCAS) at UPRM.
- Director, Marine Outreach Program, Sea Grant College Program, University of Puerto Rico, 2005-2007.

- Assistant Director for Program Development, Sea Grant College Program, 2004 -2005.

## Relevant Publications.

- Guild L., B. Lobitz, R. Armstrong, F. Gilbes , J. Goodman, Y. Detres, R. Berthold, and J. Kerr. 2008. NASA Airborne AVIRIS and DCS Remote Sensing of Coral Reefs. Proceedings of the 11<sup>th</sup> International Coral Reef Symposium, Ft. Lauderdale, Florida, 7-11 July 2008. (In press).
- Suárez, E., Y. Detrés, M. Rolón, L. Maldonado, M. Gelado, J. Matta, and R. Armstrong. 2008. Molecular Identification of Bacterial Burden in Sahara Dust Samples from the Island of Gran Canaria . Journal of Environmental Health Research.
- Armstrong, R., L. Guild, F. Gilbes, B. Lobitz, and Y. Detres. 2007. Water Column Corrections of AVIRIS Data for Hyperspectral Characterization of Benthic Marine Communities in Puerto Rico. Proceedings 5<sup>th</sup> EARSel Workshop on Imaging Spectroscopy. Bruges, Belgium, April 23-25, 2007.
- Morris, V., P. Clemente-Colon, N.R. Nalli, E. Joseph, R.A. Armstrong, Y. Detrés, M.D. Goldberg, P.J. Minnett, and R. Lumpkin. 2006. Measuring Trans-Atlantic Aerosol Transport From Africa. EOS, Transactions, American Geophysical Union 87(50) 565-580.
- Costa, C. S. B., R. Armstrong, Y. Detrés, E. W. Koch, M. Bertiller, A. Beeskow, L. S. Neves, G. M. Tourn, O. A. Bianciotto, L. B. Pinedo, A., Y. Blessio and N. San Roman. 2006. Effect of Ultraviolet - B Radiation on Salt Marsh Vegetation: Trends of the Genus *Salicornia* Along the Americas. J. Photochem. Photobiol: Biology. 82(4) 878-886.
- Detrés Y., R. A. Armstrong and X. M. Connelly. 2001. Ultraviolet - induced responses in two species of climax tropical marine macrophytes. J. Photochem. Photobiol. B: Biology. 62 (1-2) 55-66.
- Detrés, Y. 2001. Effects of ultraviolet radiation in the tropical marine macrophyte *Thalassia testudinum* (König). Doctoral dissertation. Department of Marine Sciences, University of Puerto Rico, Mayagüez campus.
- Detrés, Y. 1988. Estudio de la fanerógama marina *Ruppia maritima* Linnaeus en la región suroeste de Puerto Rico. Master thesis. University of Puerto Rico, Mayagüez campus.

## Recent Presentations

- Detrés, Y. Role of Atmospheric Sciences in the Climatic System, NASA LWS Star Partners Meeting “From Space to Planet Earth, Teaching Tomorrow’s Leaders & Explorers Today”. San Juan, Puerto Rico, July 6 – 11, 2008.

- Detrés, Y., R. Armstrong and V. Morris. Training Minority Students in Remote Sensing, Atmospheric, and Oceanographic Sciences at the University of Puerto Rico. American Society of Limnology and Oceanography (ASLO), Santa Fe, N.M. February 14-20, 2007.
- Detrés, Y. and R. Armstrong. NCAS Education and Outreach at UPRM: Integrating Remote Sensing, Atmospheric and Oceanographic Sciences. NOAA/EPP Fourth Education and Science Forum: Science, Stewardship and Sustainability, Tallahassee, Florida. Oct. 30 – Nov. 1, 2006.
- Detrés, Y. and R. Armstrong. Remote Sensing of Episodic Rainfall Events Impacting Coral Reef Areas. ASLO, Victoria, B. C., June 4-9, 2006.
- Detrés, Y. Impacts of Ultraviolet Radiation in Tropical Marine Ecosystems. American Society for Photobiology, 33<sup>rd</sup> Meeting. Río Grande, Puerto Rico. June 2006.
- Detres, Y. An Interdisciplinary Approach to Study Saharan Dust Aerosols, Puertorrican Micological Society, VII Mycology Symposium (keynote speaker). April, 2005.
- Detres, Y. October 2004. Saharan Dust in the Eastern Caribbean: Environmental and Public Health Implications. Air Quality Forum. Interamerican University, San German, P.R. (keynote speaker). October, 2004.
- Detres, Y., R. Armstrong, M. D. Gelado, C. Betancourt, A. De La Mota, and O. Rivera. Bioaerosol Measurements Across the Tropical Atlantic Ocean. NOAA Education & Science Forum, New York. Oct. 2004.
- Detrés, Y., R. Armstrong, B. Jiménez and J. Matta. Bioaerosols and PM 2.5 Mass Determination in AEROSE 2004. NOAA Education & Science Forum, New York. Oct. 2004.
- Detres, Y. African Dust Events: Is There a Sun-Earth Connection?. NASA-LWS Star Partners Conference, Anchorage, Alaska (invited speaker). July 5 – 9, 2004.
- Detrés, Y. and R. Armstrong.. Effects of UV Radiation in the Tropical Halophyte *Salicornia bigelovii*. IAI CRN-026 All Scientist Meeting, Buenos Aires, Argentina. April 2004.
- Detrés, Y. and R. Armstrong. 2003. Characterization of Viable Fungal Spores in PM 2.5 Filter Samples Reaching the Eastern Caribbean. AGU Fall Meeting San Francisco, California, December 8 – 12, 2003.