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EDUCATION

- 2004 – 2011 PhD Biology *The Pennsylvania State University (PSU)*
Advisor: Dr. T. LaJeunesse
- 2001 – 2004 MSc. Marine Sciences *U. of Puerto Rico – Mayagüez (UPRM)*
Advisor: Dr. E. Weil
- 2000 – 2001 Specialization in Coastal Management *U. Jorge Tadeo Lozano – Cartagena, Colombia*
- 1991 – 1996 BSc. Marine Biology *U. Jorge Tadeo Lozano – Bogotá, Colombia*

PROFESIONAL EXPERIENCE

- 2014 – Research Educator ASSURE program – College of Science
U. of Texas at Arlington (UTA)
- 2012 – 2014 NSF Postdoctoral Fellow – Ocean Science Postdoctoral Research Fellowship
- 2011 – 2012 Postdoctoral Fellow – Biology *U. of Texas at Arlington*
- 2002 – 2004 Research assistant marine sciences *U. of Puerto Rico – Mayagüez*
- 2000 – 2001 Environmental specialist *A. S. Environmental Consultant, Colombia*
- 1996 – 2000 Research Scientist *Marine Research Institute (INVEMAR), Colombia*

GRANTS AND AWARDS

- 2012 National Science Foundation, U.S. Ocean Science Postdoctoral Research Fellowship. Project: The use of biological, ecological and genetic observations as an integrative approach to understand coral decline (\$170,000).
- 2008 Alfred P. Sloan, U.S. Minority PhD Program in Math, Science and Engineering (\$38,000).
- 2006 Short Term Visit Grant from the Smithsonian Institution (\$900).
- 2005 Lerner Gray Memorial Grant. American Museum of Natural History. Project: Species differentiation among three Caribbean scleractinian genera (\$1,000).
- 2005 Graduate Student Association, FIU. Research Grant. Project: Effects of the coral disease white plague type II on the population structure and ecology of two scleractinian corals (*Dichocoenia stokesii* and *Montastraea annularis*) (\$500).
- 2005 FIU's RISE Biomedical Research Initiative (NIH/NIGMS R25 GM61347), student Research Award. Project: Host/pathogen interactions of a multiple host disease and the genetic structure of two coral host populations (\$3,000).
- 1997 INVEMAR. Project: Cartography and characterization of the marine communities at the National Natural Park Gorgona (~ \$50,000).

PUBLICATIONS

- Pinzón, JH**, B Kamel, CA Burge, CD Harvell, M Medina, E Weil and LD Mydlarz. 2015. Whole transcriptome analysis reveals changes in expression of immune related genes during and after bleaching in a reef-building coral. *Royal Society Open Science*, 2: 140214.
- Pinzón, JH**, L Dornberger, J Beech-Letendre, E Weil, L Mydlarz. 2014. The link between immunity and life history traits in scleractinian corals. *peerJ*, 2:e628

- Pinzón, JH**, J Beech-Letendre, E Weil, L Mydlarz. 2014. Relationship between phylogeny and immunity suggests older Caribbean coral lineages are more resistant to disease *PLoS One*, 9(8): e104787
- Pinzón, JH**, E Sampayo, E Cox, LJ Chauka, CA Chen, CR Voolstra, TC LaJeunesse. 2013. Blind to morphology, genetics identify several widespread ecologically common species and few endemics among Indo-Pacific cauliflower corals (*Pocillopora*, Scleractinia). *Journal of Biogeography*, 40(8):1595-1608
- Pinzón, JH**, H Reyes-Bonilla, I Baums, TC LaJeunesse. 2012. Contrasting clonal structure of a single a population of *Pocillopora* (Scleractinia) at two nearby sites in the Gulf of California. *Coral Reefs*, 31(2):765-777
- Pettay D, D Wham, **JH Pinzón**, TC LaJeunesse. 2011. Genotypic diversity and spatial-temporal distribution of *Symbiodinium* clones in an abundant reef coral. *Molecular Ecology*, 20(4):5197-5212
- Pinzón JH**, E Weil. 2011. Cryptic species within the Atlantic-Caribbean genus *Meandrina* (Lamarck, 1801) (Scleractinia): a multidisciplinary approach and description of the new species *Meandrina jacksoni* n.sp. *Bulletin of Marine Sciences*, 87(4):823-853
- Pinzón JH**, TC LaJeunesse. 2011. Species delimitation of common reef corals in the genus *Pocillopora* using nucleotide sequence phylogenies, population genetics and symbiosis ecology. *Molecular Ecology*, 20(2):311-325
- Pinzón JH**, MK Devlin-Durante, MX Weber, IB Baums, TC LaJeunesse. 2010. Microsatellite loci for *Symbiodinium A3* (*S. fittorum*) a common algal symbiont among Caribbean *Acropora* (stony corals) and Indo-Pacific giant clams (*Tridacna*). *Conservation Genetics Resources*. *Conservation Genetics Resources*, 3(1):45-47
- LaJeunesse TC, R Smith, M Walther, **JH Pinzón**, DT Pettay, M McGinley, M Aschaffenburg, P Medina-Rosas, AL Cupul-Magaña, AL Pérez, H Reyes-Bonilla, ME Warner. 2009. Host-symbiont recombination vs. natural selection in the response of coral-dinoflagellate symbioses to environmental disturbance. *Proceedings of the Royal Society of London, Series B. Biological Sciences*, 277(1696):2925-2934.
- Smith R, **JH Pinzón**, TC LaJeunesse. 2009. Symbiodinium (Dinophyta) diversity in aquarium corals under long-term cultivation. *Journal of Phycology*, 45(5):1030-1036
- Baums IB, Durante-Devlin M, Brown L, **JH Pinzón**. 2008. Nine novel, polymorphic microsatellite markers for the study of threatened Caribbean Acroporid corals. *Molecular Ecology Resources*, 9(4):1155-1158
- LaJeunesse TC, **JH Pinzón**. 2007. Screening intragenomic rDNA for dominant variants provide a consistent retrieval of evolutionarily relevant ITS (rDNA) sequences. *Molecular Phylogenetics and Evolution*, 45(1):417-422
- Díaz JM, **JH Pinzón**, AM Perdomo, LM Barrios, M López-Victoria. Generalidades. In: Barrios LM, M López-Victoria. 2001. Gorgona Marina: Contribución al conocimiento de una Isla única. Publicación Especial No. 7, INVEMAR, Santa Marta, 17-26
- Díaz JM, LM Barrios, MH Cendales, J Garzón-Ferreira, J Geister, M López-Victoria, GH Ospina, F Parra-Velandia, **JH Pinzón**, B Vargas-Angel, F Zapata, S Zea. 2000. Áreas coralinas de Colombia. Publicación Especial No. 5, INVEMAR, Santa Marta 176p.
- Garzón-Ferreira J, **JH Pinzón**. 1999. Evaluación rápida de estructura y salud de las formaciones coralinas de la isla de Malpelo (Pacífico Colombiano). *Boletín de Investigaciones Marinas y Costeras*, 28:137-154
- Garzón-Ferreira J, **JH Pinzón**. 1999. Rapid Assessment of coral communities of Malpelo Island (Colombian Pacific). *Reef Encounter*, 26:12-13
- Pinzón, JH**, AM Perdomo, OD Solano, G Navas. 1998. Blanqueamiento coralino de 1995 en la región de Santa Marta, Caribe colombiano. *Caribbean Journal of Science*, 34(3-4): 330-333

Pinzón, JH, AM Perdomo, JM Díaz. 1998. Isla Arena, una formación coralina saludable en el área de influencia de la pluma del Río Magdalena, plataforma continental del Caribe Colombiano. *Boletín de Investigaciones Marinas y Costeras*, 27:21-37

TEACHING EXPERIENCE

2015 – Research Stream Laboratory (BIOL/CHEM1343) - ASSURE, College of Science, UTA
 2014 – Research Methods (BIOL/CHEM 1302) - ASSURE, College of Science, UTA
 Instructional Techniques in Biology (BIOL 4388) and Chemistry (CHEM 4385) - ASSURE, College of Science, UTA
 2012 Professional Development Seminar for PhD Candidates, Department of Biology, UTA.

Teaching Assistant

2008 – 2010 General Biology. Department of Biology, PSU (BIOL110L).
 2008 Abroad course on Tropical Ecology course in Costa Rica (BIOL499A www.personal.psu.edu/jhm10/Courses/Index.html). Department of Biology, PSU.
 2004 – 2007 Introduction to Marine Biology (OCB2003L), Ecology (PCB 3043L), General Biology (BSC1010L) and Microbiology (MCB3020L) laboratories. Department of Biological Sciences, FIU.
 2001 – 2004 Cellular Physiology (BIOL 3010L), and General (QUIM3001, QUIM3002, and QUIM3042) and Organic Chemistry (QUIM 3462) laboratories. Departments of Biology and Chemistry, UPRM.

Mentoring

2012 Co-advisor in an Honor Student project (Barbara Quave), Department of Biology, UTA.
 2009 – 2010 Senior graduate student mentor. Department of Biology, PSU.
 • Provide advice on graduate life and procedures
 2008 – 2010 Penn State's FastStart program (<http://alumni.psu.edu/network-mentor/faststart>). Alumni association, PSU.
 • Support freshmen during their first year of college.

INVITED TALKS

2013 **Pinzón, JH**. The genetic delineation of species and its impact on the study of Scleractinian biology: *Pocillopora* as a case study. 29th Annual Edwin W. Pauley Summer Program. Hawaii Institute of Marine Biology. U. of Hawaii.
Pinzón, JH. Uncovering the secrets of *Scleractinian* corals... an integrative approach. Department of Biology Seminar Series. UTA.
 2005 **Pinzón, JH**. Seminar on Forensic Sciences to High School Teachers. FIU.
 2005 **Pinzón, JH**. White plague and its effects on the populations of two scleractinian coral hosts. Mote Marine Laboratory's Graduate Student Research Seminar Series 2005. "Ocean Health and Treats".

CONTRIBUTED PRESENTATIONS

2014 **Pinzón, JH**, E Weil, LD Mydlarz. RNAseq analysis elucidates early responses to infection in scleractinian corals. Evolution 2014, Raleigh, NC. Oral presentation.
Pinzón, JH, E Weil, LD Mydlarz. The effects of pathogen associated molecular patterns (PAMP) on the gene expression of the Caribbean coral *Orbicella faveolata*. Benthic Ecology Meeting, Jacksonville FL. Oral presentation.

- 2013 **Pinzón, JH**, J Beach-Letendre, A Cawthorne, E Weil, Mydlarz LD. Phylogenetic signal in immunity and its relationship with disease ecology and the future of coral reefs. *Evolution* 2013, Salt Lake, UT. Oral presentation.
Mydlarz, LD, ES McGinty, **JH Pinzón**. The host and symbiont both matter: A comparative study of immunity and antioxidants among different coral and symbiont combinations. Benthic Ecology Meeting, Savannah, GA.
Pinzón, JH, J Beach-Letendre, A Cawthorne, E Weil, Mydlarz LD. Why does immunity vary? Linking phylogenetics and life traits to immunity in reef-building corals. SICB 2013, San Francisco CA. Oral presentation.
- 2012 Mydlarz, LD, **JH Pinzón**, C Palmer. Why do coral vary in disease susceptibility? 12th International Coral Reef Symposium, Cairns, Australia.
- 2010 **Pinzón, JH**, JA Sanchez, R Iglesias, TC LaJeunesse. Assessing the importance of ecological specialization and isolation-by-distance in the diversification of dinoflagellates in the genus *Symbiodinium*. Benthic Ecology Meeting, Wilmington NC. Oral presentation.
- 2009 **Pinzón, JH**, TC LaJeunesse. Coevolved host-symbiont associations support the molecular genetic delineation of three morphologically variable species of Eastern Pacific pocilloporid corals. *Evolution*, Moscow ID. Oral presentation.
- 2008 **Pinzón, JH**, D Pettay, TC LaJeunesse. The genetic structure of the coral may control host-symbiont specificity in the Sea of Cortez. 11th International Coral Reefs Symposium, Fort Lauderdale FL. Poster.
- 2008 **Pinzón, JH**, E Weil. A multivariate analysis of the Scleractinian genus *Meandrina* (Lamarck, 1801): evidence for a new species. 11th International Coral Reefs Symposium, Fort Lauderdale FL. Poster.
- 2006 **Pinzón, JH**, L Richardson. Defining the reservoir of the pathogen *Aurantimonas coralicida* by fluorescence in situ hybridization. 31st Eastern fish and health workshop, Charleston SC. Oral presentation.

WORKSHOPS, SCIENTIFIC EXPEDITIONS AND FIELD EXPERIENCE

- 2012 – 2013 Scientific expedition La Parguera Puerto Rico. Marine Science Department, UPRM.
- 2011 Negotiating the Ideal Faculty Position. Rice University NSF ADVANCE. Houston TX.
- 2010 IGS Genomics Workshop. School of Medicine, U. of Maryland. Baltimore MD.
- 2010 Scientific expedition to Islas del Rosario, Colombian Caribbean Sea.
- 2009 Scientific expedition to La Paz, Baja California, Mexico.
- 2009 Scientific expedition to Panama. Smithsonian Tropical Research Institute.
- 2005 Crew Chief Certification to operate motorboats and conduct research. FIU.
- 2004 – 2006 Scientific expedition to Key Largo, FL and Lee Stocking, Bahamas. NOAA NURC/NURP programs.
- 2004 Course: Introduction to Teaching. The Academy for the Art of Teaching. FIU.
- 2003 Course: A field guide to GenBank and NCBI Molecular Biology Resources. National Center for Biotechnology Information. UPRM.
- 2001 – 2003 Scientific expedition La Parguera Puerto Rico. Marine Science Department, UPRM.
- 2001 Course: US Coast Guard Auxiliary Boating skills and Seamanship course. UPRM.
- 2001 Course: Creación de modelos en Ecología y Gestión de Recursos Naturales. (Creation of models in ecology and natural resources management) Fundación Politécnica de Cataluña. (Online training - www.dinamica-de-sistemas.com/cursos/sis.htm).

- 2000 Taller teórico práctico en Corales y Arrecifes coralinos a estudiantes de 11 grado (Workshop on corals and coral reefs to last year high school students). National Natural Park Gorgona, Colombia (Co-organizer).
- 1999 2nd workshop on the monitoring and information system for the coral reefs of Colombia. National Natural Park Gorgona, Colombia November 1999 (Co-organizer).
- 1999 2nd scientific expedition to Malpelo Island. Colombian Navy. ARC Malpelo. June 1999.
- 1998 – 1999 Research scientist at INVEMAR Gorgona. Colombian Pacific Ocean.
- 1998 Marine research assistant at Isla Arena, Colombian Caribbean Sea.
- 1995 Marine research assistant Santa Marta, Colombian Caribbean Sea.

PROFESSIONAL AFFILIATIONS

- 2002 – International Society of Reefs Studies
- 2009 – The Society for the Study of Evolution
- 2014 – Council on Undergraduate Research
- 2012 – 2014 Society for Integrative and Comparative Biology
- 2005 – 2010 American Society of Limnology and Oceanography

PROFESSIONAL SERVICES

- Judge of the Annual Celebration of Excellence by Students Symposium (ACES - www.uta.edu/aces/) for UTA students - 2012 and 2013.
- Founder of Coral_Is_Es (<http://www.coralises.org>) an educational website on corals and coral reefs.
- Volunteer work at the UTA stand on Earth Day Texas - 2012, 2013 and 2014.
- Founder of Evolution in Latin America (EvoLat – www.uta.edu/faculty/pinzon/EVOLAT) a group of the Society for the Study of Evolution, dedicated to the study of evolution in Latin America
- Reviewer for several scientific journals, including: Molecular Ecology, Molecular Ecology Resources, PLoS One, Marine Ecology Progress Series, Coral Reefs, Biological Bulletin, Boletín de Investigaciones Marinas y Costeras and Revista de Biología Tropical.

SCUBA DIVING CERTIFICATIONS

- 2004 American Academy of Underwater Sciences – Scientific diver
- 2004 SSI Enriched Air NITROX
- 2001 US Coast Guard Auxiliary, Boating Skills and Seamanship Course
- 1998 PADI Rescue Diver
- 1996 NAUI Open Water I and Open Water II

OTHER SKILLS

- Expertise in various molecular techniques: DNA and RNA extraction, PCR, qPCR, Denature Gradient Gel Electrophoresis, microsatellites and SNP, Next Generation Sequencing
- Knowledge of command line and GUI Linux (e.g. RedHat) and various open source packages for transcriptomic and genomic analyzes such as: Trinity, samtools, cufflinks, tophat, cummerbund, edgeR, Velvet, Blat, Blast.
- Expertise in phylogenetic and population genetic analyses using Structure, NewHybrid, PAUP, Mr Bayes, CLUSTAL.
- Proficiency in English and Spanish