**PERSONAL DATA**

Nationality: Venezuelan / German (both passports).

Place and date of birth: Caracas, 19/05/1981

Current address: Calle Piedras Pintadas, Edificio Piedras Pintadas, Las Esmeraldas, 1080, Caracas, Venezuela

**EDUCATION**

**Doctor of Philosophy in Science** (2012-2016)

College of Science and Engineering

James Cook University, Townsville, Australia

Thesis title: “Combined effects of water quality and temperature on the early life history stages of the broadcast spawning coral *Acropora tenuis*”. Supervised by Dr. Andrew Negri, Dr. Katharina Fabricius and Prof. Bette Willis.

**Master in Biological Sciences** (2007-2009)

Universidad Simón Bolívar, Caracas, Venezuela

Thesis tittle: “Settlement and survivorship of scleractinian corals at the National Park Archipelago Los Roques, Venezuela”. Supervised by Dr. Carolina Bastidas

**Honours in Biology, mention Ecology** (1999-2005)

6th place in the graduation

School of Biology, Faculty of Sciences, Universidad Central de Venezuela, Caracas

Thesis title: “Morphologic analysis of three coral species at Isla Larga, San Esteban National Park, Venezuela”. Supervised by Prof. Sheila Marques

**RESEARCH**

**Research interest**

During my scientific career, I have focused on several organisms related to marine ecosystems including corals, polychaetes, mussels, aquatic birds, sea turtles and mangroves. I am interested on coral reefs population ecology, hard corals reproduction and water quality impacts on marine populations using experimental and theoretical approaches.

**Previous research activities:**

Research assistant of the project “CARICOMP”. Laboratory of Marine communities and ecotoxicology, Universidad Simón Bolívar, Caracas, Venezuela (January-June 2011).

*Main duties undertaken:* organize and analyze a 10-year record dataset of abiotic parameters, corals reefs abundance and seagrass and mangroves productivity.

Research assistant of the project “Restoration of dry forests”. Laboratory of Vegetal Ecophysiology, Instituto Venezolano de Investigaciones Científicas (January-August 2010).

*Main duties undertaken:* literature review of plants used in Venezuela in restoration projects.

Field assistant of the project “Ecological, ecotoxicological and environmental coral reef monitoring program at Los Roques National Park”. Centro de Estudios Ecotoxicológicos en Sistemas Marinos, Universidad Simón Bolívar, Mitsui & Co. Ltd. (2009-2011).

*Main duties undertaken:* organize field trips to Los Roques National Park. Sample coral reefs (abundance using the chain method), and take water quality samples for ecotoxicology analysis.

Research assistant of the project “the Sea Turtles of Paria”. Centro de Investigaciones y Conservación de Tortugas Marinas, Caracas, Venezuela (2005-2007).

*Main duties undertaken:* organize and give one day workshops about the biology and conservation of sea turtles at local schools for students and teachers. Assist the principal researcher with paperwork issues, coordinate the program of donations that the NGO received.

Field and Laboratory assistant of the project “Stationarity of aquatic birds associated to the lagoons of the Wildlife Fauna Refugee Cuare, Estado Falcon”. Laboratory of aquatic birds, Universidad Central de Venezuela, Caracas, Venezuela (2006)

*Main duties undertaken:* Take and analyze sediment samples.

Field assistance of the project “Biodiversity”. PROVITA, Caracas, Venezuela (April-July 2005).

*Main duties undertaken:* Literature review on endangered species in Venezuela.

**Certifications**

PADI Rescue diver (1209AG1563)

Queensland Marine Boat Licence (102977383)

Marine Radio Operator’s VHF Certificate of Proficiency (OMC 062929)

Queensland First Aid and CPR certification

Oxygen Provider certification

**Courses**

“Coral identification workshop” dictated by Russell Kelley. Australian Institute of Marine Science, August 2015.

“Data exploration, regression, GLM & GAM in R” dictated by Alaian Zuur and Elene Ieno. James Cook University, August 2014.

“Data exploration and analysis in R” dictated by Murray Logan. Australian Institute of Marine Science and James Cook University, August 2013.

Professional Photography. Escuela de Fotografia y Centro de Imagen (EFTI). Madrid, España, October 2011-June 2012.

Marine Evolution – patterns and processes. CeMEB Advanced course. Tjärno, Sweden, November 2011.

Theoretical Ecology and Global Change. Workshop organized by the International Center for Theoretical Physics (ICTP) and UNESCO. Trieste, Italy, March 2009.

Coastal Ecosystems Ecology. Course organized by the Organization of Tropical Studies (OTS). La Mancha, Veracruz, Mexico, January-March 2007.

Behaviour of Coral Reefs Animals. Course organized by the Bermuda Biological Station (BBSR). Bermuda Island, July-August 2004.

**TRAVEL GRANTS, SCHOLARSHIPS AND AWARDS**

Australian Development Scholarship and Australian Leadership Awards to pursue a Doctor of Philosophy on Marine Ecology study at James Cook University, Townsville, Australia, 2012-2016 (500,000 AU$).

Australian Leadership Awards. Australia, 2012-2016 (4,000 AU$).

Financial support granted by International Center for Theoretical Physics (ICTP) and UNESCO for assisting to the “Theoretical Ecology and Global Change” workshop, Trieste, Italy 2009 (flight, accommodation and living expenses for two weeks).

Project Aware Fellowship Program Award for the project: Coral larvae distribution, settlement and early-survivorship at Los Roques National Park, Venezuela,2008 (1,400$)

Wild Life Conservation Society Research Fellowship Program Award for the project: Coral larvae distribution, settlement and early-survivorship at Los Roques National Park, Venezuela 2008 (5,000$)

Iniciativa de Especies Amenazadas (IEA). Award for the project “Coral settlement and early-survivorship at Los Roques National Park, Venezuela”,2008 (1,000$)

Idea Wild Award for the project “Settlement, recruitment and survivorship of hard corals at four reefs at Archipiélago Los Roques National Park, Venezuela”, August 2008 (donation of digital camera, microscope adapter and laptop)

Partial scholarship awarded by OTS for assisting to the postgraduate course “Coastal Ecosystems Ecology” dictated by Dr. Ana Laura Dominguez and Dr. Robert Twilley at La Mancha, Veracruz, México 28 of January till 10 March of 2007 (3,500$).

Scholarship to pursue a Master in Science at Universidad Simón Bolívar. Mision Ciencias, Caracas, Venezuela, 2007-2009 (18,000$).

Project Aware Grant for the project “Morphologic analysis of three coral species at Isla Larga, San Esteban National Park, Venezuela”, 2006 (661$).

Padifoundation Grant Award for the project “Morphologic analysis of three coral species at Isla Larga, San Esteban National Park, Venezuela”, 2005 (1,000$).

Idea Wild Award for the project “Morphologic analysis of three coral species at Isla Larga, San Esteban National Park, Venezuela” 2005 (donation of breathing regulator, data logger software, octopus, regulator, computer regulator and an optic USB base station).

Partial scholarship awarded by National Organization of Atmospheric Analysis (NOAA) for assisting to the 32nd Scientific Meeting of the Association of Marine Laboratories of the Caribbean. Curacao, 2005 (300$).

Partial scholarship awarded by Esso/Mobile for assisting to the summer course “Behaviour of Coral Reef Animals” dictated by Dr. Ruth Byrne and Dr. Michael Kuba at the Bermuda Biological Station for Research, Bermuda Island. 27 of July till 21 August of 2004 (1,000$).

Partial scholarship awarded by Universidad Central de Venezuela to attend the course “Behaviour of Coral Reef Animals” dictated by Dr. Ruth Byrne and Dr. Michael Kuba at the Bermuda Biological Station for Research, Bermuda Island. 27 of July till 21 August of 2004 (150$).

Partial scholarship awarded by Oficina de Planificación del Sector Universitario to attend the course “Behaviour of Coral Reef Animals” dictated by Dr. Ruth Byrne and Dr. Michael Kuba at the Bermuda Biological Station for Research, Bermuda Island. 27 of July till 21 August of 2004 (1,000$).

**CONFERENCE ATTENDANCE**

**Oral presentations**

“Cumulative effects of sediments, nutrient enrichment and high temperatures compromise the early life history stages of the coral *Acropora tenuis*”*.* 13th International Coral Reef Symposium. Hawaii, United States of America, June 2016.

“Eutrophication and climate change compromise the fate of early life history stages of *Acropora tenuis*”. AIMS@JCU student conference. People’s Choice Best Presentation Award, September 2015.

“Effects of turbidity and sedimentation on the survival of *Pocillopora damicornis* recruits”. 87th Annual Australian Coral Reef Society Conference. Sydney, Australia, August 2013.

“Coral reefs conservation: where should efforts be focus?” Student Conference on Conservation Science. American Natural History Museum, New York, United States of America. November 2010.

“Matrix models in coral metapopulation”. VI Latin-American Biomathematics Conference, Acapulco, Mexico, November 2009.

Settlement and survival of corals at Archipiélago Los Roques National Park, Venezuela. 2nd Biojornadas. Best Presentation Award. Universidad Simón Bolívar Caracas Venezuela. July 2009.

“Comparison of coral recruitment rates in three artificial substrates in Boca Seca and Playa Caimán Morrocoy National Park”. VII Venezuelan Ecology Congress. Ciudad Guayana, Venezuela, 2007.

**TEACHING**

Teacher assistant of the subject “Life history and evolution of reef corals”. James Cook University, Townsville, Australia (2013-2016).

Teacher assistant of the subject “Biology of organisms”. Universidad Simón Bolívar, Caracas, Venezuela (2007-2009).

Teacher assistant of the subject “Ecology”. Universidad Central de Venezuela, Caracas, Venezuela (2004).

Teacher assistant of the subject “Estuarine Ecology”. Universidad Central de Venezuela, Caracas, Venezuela (2004).

Teacher assistant of the subject “Botany”. Universidad Central de Venezuela, Caracas, Venezuela (2001-2002).

**PUBLICATIONS**

**Humanes, A.**; Ricardo, G. F., Willis, B. L.; Fabricius, K. E.; Negri, A. P. Cumulative effects of suspended sediments, nutrient enrichment and temperature stress on early life history stages of the coral *Acropora tenuis*. Scientific Reports. **Accepted**.

**Humanes, A.**; Noonan, S. H. C.; Willis, B. L.; Fabricius, K. E.; Negri, A. P. 2016. Cumulative effects of nutrient enrichment and elevated temperature compromise the early life history stages of the coral *Acropora tenuis*. PLoS One 11(8): e0161616. doi:10.1371/journal.pone.0161616

Ricardo, G. F.; Jones, R. J.; Clode, P. L.; **Humanes, A.** & Negri, A. P. 2015. Suspended sediments limit coral sperm availability. Scientific reports 5: 18084.

**Humanes, A.** & Bastidas, C. 2015. *In situ* settlement rates and early survivorship of hard corals: a good year for a Caribbean reef. Marine Ecology Progress Series 539: 139-151.

Bastidas, C.; Bone, D.; Cróquer, A.; Debrot, D.; Garcia, E.; **Humanes, A.**; Ramos, R. & Rodríguez, S. 2012. The 2010 bleaching event at Los Roques, Venezuela: An unprecedented loss of live coral. Revista de Biologia Tropical 60 (1): 29-37.

Hesp, P.; Martinez. M; Miot da Silva, G.; Rodríguez-Revelo, N.; Gutierrez, E.; **Humanes, A**.; Laínez, D.; Montaño, I.; Palacios, V.; Quesada, A.; Storero, L.; González Trilla, G. & Trochine, C. 2010. Transgressive dunefield landforms and vegetation associations, Doña Juana, Veracruz, Mexico. Earth Surface Processes and Landforms. Earth Surf. Process. Landforms 36: 285–295.

**Humanes, A.** León, Z. 2009. Coral settlement and early-survivorship of coral recruits in four reefs at Los Roques National Park. pp 212. In: Giraldo, D. Rojas-Suarez, F. & Romero, V (Ed.). Una mano a la naturaleza, Conservando las especies amenazadas venezolanas. Provita y Shell Venezuela, S.A., Caracas, Venezuela.

**In preparation**

**Humanes, A.**; Fink, A., Willis, B. L.; Fabricius, K. E.; Negri, A. P. Experimental investigation into the effects of suspended sediments and nutrient enrichment on juvenile corals. To be submitted to Marine Pollution Bulletin.

**Humanes, A.**; Willis, B. L.; Fabricius, K. E.; Negri, A. P. Effects of water quality and temperatures stress on the demography of corals. In preparation.

**Videos**

People's Choice Bommies Award

<https://www.youtube.com/watch?v=uLV6MJ1edRY&feature=youtu.be>

Homeward Bound

<https://youtu.be/urm_XZsCV7g>

**REFEREES**

Prof. Bette Willis

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Prof. David Bourne

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Dr. Carolina Bastidas

Research Scientist, MIT Sea Grant, Massachusetts, USA, Ph: + 617 253 34 38

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