

## NATALY GUTIÉRREZ-ISAZA

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### Education

- 2017 - Current      PhD - University of Queensland. Thesis topic: Latitudinal patterns of maternal investment, maternal provisioning, and performance of coral offspring. Supervisor: Professor John M. Pandolfi
- 2013                      El Colegio de la Frontera Sur, Chetumal-Quintana Roo (México), M.S in Natural Resources and Rural Development. Thesis: Endolithic community of *Orbicella faveolata* (Scleractinia) underneath the interface between coral tissue and epilithic macroalgae.
- 2010                      Universidad de Antioquia (Colombia), B.S. in Biology. Thesis: Estimation of decomposition rates from some exotic and native tree species leaf litter in a tropical lotic system (Las Piedras stream, San José del Nus).

### Publications

- 2018                      Sims, C.A., Sampayo, E.M., Mayfield, M., **Gutiérrez-Isaza, N.**, Dalton, S., Staples, T., Pandolfi, J.M. “Home is where the hetero-species aren’t: coral species settle better alone” *Conference: Australian Coral Reef Society Poster*.
- 2015                      **Gutiérrez-Isaza, N.**, Espinoza-Avalos, J., León-Tejera, H.P. y González-Solís, D. “Endolithic community composition of *Orbicella faveolata* (Scleractinia) underneath the interface between coral tissue and turf algae” *Coral Reefs* (DOI 10.1007/s00338-015-1276-0).
- 2014                      Blanco-Libreros, J.F., **Gutiérrez-Isaza, N.** “Leaf litter mass loss rates and associated fauna of tree species commonly used in neotropical riparian reforestation” *Acta biológica Colombiana* 19(1):89-98.
- 2010                      **Gutiérrez-Isaza, N.**, Blanco-Libreros, J.F. “Red mangrove (*Rhizophora mangle*) health evaluated from allometric relationships of leaves, on the Gulf of Urabá, Colombian Caribbean coast” Book of extended abstracts *XIV National Seminar on Science and Technology of the Sea (SENALMAR)* Special Publications Series No. 21, 578 p.

## Professional and Research Experience

- 2019 *Tutor – School of Biological Sciences, The University of Queensland*  
Tutoring for Australia's Marine Environment course, guiding undergraduates that undertake research projects, also marking student project reports.  
Brisbane, Australia
- 2014-2017 *Research Assistant – University of Antioquia and General System of Royalties, Antioquia-Colombia. Research Project: Priority Guidelines for the Formulation of a Fisheries Management Gulf of Urabá.*  
**Tasks:** conducting research component on plankton ecology, involving assessments of pelagic primary and secondary production. Additionally, collating group reports, managing administrative paperwork, field logistics under tropical weather, in addition to the technical challenges on the research topic.  
Medellín, Colombia
- 2010 *Contracted Researcher – ICONSULT*  
Evaluating ecological impacts of dam construction. Medellín, Colombia
- 2009-2010 *Assistant – Universidad de Antioquia and USAID*  
Evaluating productive project briefs. Medellín, Colombia
- 2009-2010 *Research assistant – Universidad de Antioquia and Gobernación de Antioquia*  
Analysis of large data set, suggestion of alternative statistical methods, and writing of an extended abstract for a national meeting on marine sciences  
Medellín, Colombia
- 2008-2009 *Teaching assistant – University of Antioquia*  
Laboratory and field assistant for Stream Ecology undergraduate lecture.  
Medellín, Colombia
- 2006 *Administrative assistant – University of Antioquia*  
Checking inventory of the Head of the School of Biological Sciences.  
Medellín, Colombia

## Current Supervision

Chlorophyll-a, Seston and Physicochemical characteristics of Uraba gulf-Colombia and their relationship with spatial patterns of zooplankton community

Bachelor of Science–**Principal Advisor**  
University of Antioquia, Turbo, Colombia

## Grants and awards

- 2017-2020 Research Training Scholarship, The University of Queensland (Tuition fee offset and living allowance stipend).
- 2018-2021 Student loan award, COLCIENCIAS - Colombia (Student loan forgivable up to 100%).
- 2013 Graduated Summa Cum Laude with a Master of Science in Natural Resources and Rural Development from El Colegio de la Frontera Sur, Chetumal-Quintana Roo (México)
- 2012-2013 CONACYT - National Council for Science and Technology Full scholarship to study M.S program in México.

## Presentations

- 2015 **Gutiérrez-Isaza, N.**, Espinoza-Avalos, J., León-Tejera, H.P. & González-Solís, D. “Phototrophic endolithic community of *Orbicella faveolata* (Scleractinia) underneath the interface between coral tissue and turf algae”. *XVI Latinoamerican Congress of Sea Science - Colacmar and XVI National Seminar on Science and Technology of the Sea – (SENALMAR)*, Santa Marta, Colombia.
- 2014 **Gutiérrez-Isaza, N.**, Espinoza-Avalos, J., León-Tejera, H.P. & González-Solís, D. “Phototrophic endolithic community of *Orbicella faveolata* (Scleractinia) underneath the interface between coral tissue and turf algae”. *X Phycology Congress of Latinamerica and the Caribe*, Metepec, México.
- 2011 **Gutiérrez-Isaza, N.** “Mangroves’ health”. International Defense Day of Mangrove Ecosystem, Medellín, Colombia.
- 2010 **Gutiérrez-Isaza, N.** & Blanco-Libreros, J.F. “Red mangrove (*Rhizophora mangle*) health evaluated from allometric relationships of leaves, on the Gulf of Urabá, Colombian Caribbean coast” *XIV National Seminar on Science and Technology of the Sea (SENALMAR)*, Cali, Colombia.

## Field work

- 2019 (Aug) Fossil coral species collections – Moreton Bay
- 2019 (Jan-Apr) Coral larval temperature experiments – Coffs Harbour-NSW
- 2018 (Nov-Dec) Coral larval temperature experiments – Heron Island Research Station
- 2018 (Sep-Oct) Coral species collections for nutrient analysis – southern GBR to Sunshine Coast (ARC Discovery project)
- 2018 (Jan-Feb) Coral spawning and recruitment experiments – Coffs Harbour-NSW
- 2018 (Jan-Feb) Coral nutrient and temperature experiments – Coffs Harbour-NSW
- 2017 (Nov-Dec) Coral spawning and recruitment experiments – Heron Island Research Station
- 2017 (Nov-Dec) Coral nutrient and temperature experiments – Heron Island Research Station

- 2014-2016    Periodic sampling of pelagic primary and secondary production – Uraba Gulf, Colombia
- 2013        (May) Marine snail collection – Caribbean Sea, Mexico
- 2013        (Mar) Coral cores for endolithic community analysis – Caribbean Sea, Mexico
- 2010        (Jun-Dec) Ecological evaluation of streams – Colombia
- 2009        (Jun-Aug) Leaf-litter breakdown experiments in streams – Antioquia, Colombia

### **Courses and workshops**

- 2019        (Dec) Introduction to multilevel modelling (CDF) (UQ)
- 2018        (Jul-Sep) Academic Writing Course (UQ)
- 2018        (Aug) Using PERMANOVA and ANOSIM. Dictated by: Marti Anderson
- 2018        (May) UQ Winter School Software Carpentry R Workshop
- 2018        (May) Rescue Workshop (PADI)
- 2018        (Feb) Intermediate R Workshop: Statistical Modelling-Programming (UQ)
- 2018        (Feb) Introduction to R Workshop: Basics (UQ)
- 2017        (Sep) Rescue Diver Certification (PADI)
- 2016        (Aug) Advance Open Water Diver Certification (PADI)
- 2016        (Jan-Feb) Course of marine macroalgae. Dictated by: Lizette Quan-Young. University of Antioquia, Turbo, Colombia. Duration: 20 hours.
- 2015        (Jun) Course of stranding care training, rescue and rehabilitation of marine mammals. Dictated by: OMACHA Foundation. University of Antioquia, Turbo, Colombia. Duration: 14 hours.
- 2014        (Oct-Nov) Photography workshop. Dictated by: Coordination of Extension and Welfare-University of Antioquia, Turbo, Colombia. Duration (24 hours).
- 2014        (Sep) Management of Fisheries Stocks. Dictated by: Miguel Petreire. University of Antioquia, Turbo, Colombia. Duration (80 hours).
- 2014        (Aug) Open Water Scuba Diver Certification (CMAS).

### **Synergistic Activities: Participation on events organization for communicating science**

- 2019        UQ Moreton Bay Research Station's Open Day. November 30<sup>th</sup>, Dunwich-Australia (Volunteer)
- 2018        "For the Love of the Reef" 24-HR Underwater. Brisbane-Australia
- 2015        Regional Event: "V Academic Meeting World Oceans Day: Antioquia facing the sea" Turbo, Antioquia-Colombia
- 2013        ECOSUR open house for kids. Chetumal, Quintana Roo-México
- 2009        Regional Seminar: "II Seminar URAMAR: Working on the sustainable development of our biodiversity". Turbo- Antioquia.
- 2009        Monthly lecture series: "URAMAR: A look at our Antioquian sea" University of Antioquia, Medellín.