

PEDRO CUAUHEMOC GONZALEZ ESPINOSA

PERSONAL INFORMATION

Day of birth: 10-01-1984

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ACADEMIC

- Bachelor in Marine Biology, Thesis title: "Coral bleaching caused by low temperature in the southwestern Gulf of California". Autonomous University of Baja California Sur, UABCS, La Paz B.C.S., México (2012).
- Master of Science, specialisation in use, management and preservation of natural resources. Thesis title "Sexual dimorphism of the morphological characters of *Porites panamensis* Verrill, 1866 in the Gulf of California". Northwest Biological Research Center CIBNOR, La Paz B.C.S., México (2015).
- PhD student (Geography) (2016-2020), University of British Columbia, Vancouver, Canada.

ADDITIONAL TRAINING

- Certification on Coral Reef Conservation Speciality by PADI- AWARE, April 2015.
- Light and photosynthesis on coral reefs course, January 2013.
- Underwater monitoring and analysis of information course, COBI-UABCS March 2009.
- PADI Advanced Diver, Nov. 2009.

ADDITIONAL KNOWLEDGE

- "R" Project for statistical computing.
- "Python" Programming language.
- Microsoft Office (Word, Excel, Power Point, Outlook, Publisher).
- Primer-e, multivariate statistics for ecologist.
- Statistica, Statistics and analytics software package.
- Past, Paleontological Statistics Software Package for Education and Data Analysis.
- Coast Watch Data Analysis Tool, Software to works with Earth science data created by the NOAA/NESDIS Coast Watch program.
- Web-based application GIOVANNI developed by the Goddard Earth Sciences Data and Information Services Center (GES DISC).
- Image J, Image Processing and Analysis in Java.
- Organism identification and census of the marine ecosystem including species of commercial interest (Fish and invertebrates).
- Underwater Pulse Amplitude Modulation PAM uses.
- Basic knowledge of GIS and GPS.

WORK EXPERIENCE

Research assistant

- Benthos and Nekton Ecology Laboratory from North Western Biological Research Center (CIBNOR) from 2012-2015.

Project:

- "Effect of ocean acidification on the reefs of the Mexican Pacific, genetic landscape, climate reconstruction and coral growth" CB-CONACYT, La Paz, México.

- Reef system laboratory of Autonomous University of Baja California Sur. (UABCS) from 2007-2012.

Projects:

- "Potential distribution of coral reefs on the Mexican Pacific and their vulnerability to climate change", SEMARNAT-CONACYT. La Paz, México.

- "Status and monitoring of reef areas in the Panamanian Pacific: Current status and future scenarios of change to environmental impacts", in collaboration with Conservation International

NGO, Walton Family Foundation and Universidad Autónoma de Baja California Sur. México-Panamá.

- "Monitoring Indicators at the National Park Archipelago Espiritu Santo" NIPARAJA NGO-UABCS, México.

- "Selecting priority reef conservation and management indicator groups of Veracruz Reef System" FOMIX, México.

- "Recreational use of the protected area of flora and fauna Cabo San Lucas" CONANP-SEMARNAT México.

Teacher assistant:

- Geography, Modernity and Globalisation (GEOG 122 201) University of British Columbia, 2017

Teacher (part time job):

- Science Teacher and Lab Assistant at St. Johns private school, La Paz, BCS. 2013-2016.

- Geography Teacher at St. Johns private school, La Paz. BCS. 2015-2016.

Volunteer:

- Aquaculture nutrition laboratory at CIBNOR working with aquaponics of tilapia and aromatic herbs 2013.

- "P.A.C.E. Outreach Program of Science in Education, CIBNOR, México 2009-2016.

- Experimental biology laboratory at CICIMAR-IPN working with artificial reefs and ornamental fisheries 2007.

FELLOWSHIP

- 2016-2020 International PhD fellow of the National Council of Science and Technology CONACYT, México

- 2016-2017 Graduate fellowship of the Institute for the Oceans and Fisheries, UBC, Canada.

- 2016 Faculty of Arts Graduate Award

- 2015 Fellow of International Atomic Energy Agency, USA.

- 2015 International Congress Fellowship of the South Californian Council of Science and Technology. COSCYT, México.

- 2012-2014 Master fellow of the National Council of Science and Technology CONACYT, México.

- 2010-2011 Technical training fellow of Outreach Program of Science in Education, México.

COLLABORATIONS

- "Projected changes in temperature of the Gulf of California and effects on the abundance and distribution of reef species" Héctor Reyes-Bonilla, Arturo Ayala Bocos, Luis E. Calderón Aguilera, Ma. Dinorah Herrero Pérezrul, and Pedro C. **González-Espinosa**. Biennial research agenda of ecological zoning Gulf of California. National Institute of Ecology INE. La Paz B.C.S. México Nov. 2008.

- "Assessment of capacity to dive in natural protected areas of the Caribbean and Gulf of California, México. In: Environment and Tourism Policy in Mexico. Volume I: Ecology, biodiversity and tourism development. National Institute of Ecology, Autonomous University of Baja California Sur and the Mexican Academy of Tourism Research". México. Reyes-Bonilla H., Cupul-Magaña A., Loreto-Viruel R, Álvarez del Castillo-Cárdenas A., Vázquez-Vera L., Torrejón Arellano N., Narro Robles C. and **González-Espinosa** P, 2011.

CONGRESS AND CONFERENCES

- "Extreme events of cold water and high light irradiance are responsible for massive bleaching in coral reefs" Pedro C. **González-Espinosa**, David A. Paz-García, Eduardo F. Balart and Héctor Reyes-Bonilla. 3rd Symposium effects of climate change on the world oceans, Santos, Brazil March 2015.

- "Sexual dimorphism at corallite level of the scleractinian coral *Porites panamensis* in the Gulf of California" Pedro C. **Gonzalez-Espinosa**. XIV Postgraduate week congress. La Paz B.C.S, México. 2015.

- "Cold coral bleaching in the south-west of Gulf of California, México" Pedro C. **González-Espinosa**, Héctor Reyes-Bonilla and Leonardo Vázquez Vera. XIII Latin American congress of marine sciences COLACMAR-CUBA Habana, Cuba. 2009.

PUBLICATIONS

- “Evidence of sexual dimorphism in the skeletal morphology of a reef coral” **González-Espinosa**, Héctor Reyes-Bonilla, Salvador Lluch-Cota, David A. Paz-García, Rafael Cabral-Tena and Eduardo F. Balart. In prep. To be submitted in Biology letters journal.
- “Cold and light excess; unusual combination associated with coral bleaching”. **González-Espinosa P**, Eduardo F. Balart, Héctor Reyes-Bonilla and David A. Paz-García. In prep. To be submitted to Coral Reef's journal.
- “Projected changes in temperature of the Gulf of California and effects on the abundance and distribution of reef species” 2016. Arturo Ayala-Bocos, Héctor Reyes-Bonilla, Luis E. Calderón-Aguilera, Ma. Dinorah Herrero-Pérezrul, and Pedro C. **González-Espinosa**. REVMAR. Revista Ciencias Marinas y Costeras. 168 Vol 8 N 1.

RESEARCH STAYS

- Ichthyology laboratory; fish identification. Autonomous University of Baja California Sur. 1 month. 2005.
- Elasmobranch laboratory; ecology of sharks and rays. Interdisciplinary Center for Marine Sciences -IPN. 1 month. 2006.
- Reef systems laboratory; ecology of rocky reefs. Autonomous University of Baja California Sur. 1 month. 2006.