

Juliano Emmanuel Palacios Abrantes

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EDUCATION

PhD. In Zoology (September 2016 – Expected, June 2020)

Department of Zoology, University of British Columbia, Canada.

- Management of Transboundary Fish Stocks in North America Under Climate Change: Impacts and Adaptation

Master of Environmental Science and Management (September 2014 - June 2016)

Bren School of Environmental Science & Management, University of California at Santa Barbara, USA.

- A Citizen Science Monitoring Protocol for the Rocky Intertidal Habitat

Bachelor of Science in Biology (September 2007 - December 2012)

Universidad Autónoma Metropolitana campus Xochimilco, México City.

- Sea Cucumber as a Source of Macronutrients for Low-Income Coastal Communities in Mexico.

PUBLICATIONS AND WORK IN PROGRESS

Palacios-Abrantes J., Herrera J., Molina R., Rodriguez S., Brunkow J. (NA) Evaluating a restoration plan for sustainable fishing: the case of the Callo de hacha (*Atrina spp.*) in La Paz, Mexico. *Latin American Journal of Aquatic Research* [In review]

Palacios-Abrantes J., Felins E., Handelsman T., Liu R. O., Howard A., Melack J. (NA) Using citizen science to monitor the rocky intertidal: A tool for the Bureau of Ocean Energy Management in the US. *Bulletin of the Southern California Academy of Science* [In review]

Malin L. Pinsky, Reygondeau G., Caddell R., **Palacios-Abrantes J.**, Spijkers J., Cheung W.L (2018) Preparing ocean governance for species on the move: Policy must anticipate conflict over geographic shifts. *Science*, Vol. 360, Issue 6394, pp. 1189-1191, DOI: 10.1126/science.aat2360

Palacios-Abrantes J., Melo V., Urbano, B., Gazga-Urioste C. (2017) Nutritional Analysis of *Octopus hubbsorum* (Cephalopoda: Octopodidae) in Acapulco, Guerrero; México. *Journal of Applied Life Sciences International*, 10(3): 1-6

Palacios-Abrantes, J., Melo-Ruiz, V., Diaz-Garcia, R., Gazga-Urioste C., & Urbano, B. (2016). Iron Profile of *Octopus hubbsorum* (Cephalopoda: Octopodidae) for Enrichment of the Mexican Diet, 10, 1–4. *Journal of Chemistry and Chemical Engineering*. DOI: doi.org/10.17265/1934-7375/2016.05.008

Melo, V., Jiménez, H., **Palacios-Abrantes, J.**, & Barreda, T. Q. (2013). Fruto de Capulín *Prunus Serotina* y larvas de *Synopsia Mexicanaria* W, representan una buena fuente de nutrientes en la dieta cotidiana. *Entomologia Mexicana*, 12(2), 1084–1086.

Melo, V., Aguirre, H. D., Martínez, B., **Palacios-Abrantes, J.**, & Vargas, N. (2013). Plaga de Ortópteros, recurso de nutrientes para la población. *Entomologia Mexicana*, 12(2), 1077–1079.

RESEARCH AND CONFERENCE EXPERIENCE

Palacios-Abrantes J., Cheung W. William, Sumaila R., Current State and Future Scenarios for Transboundary Fisheries Management in Changing Oceans of California and the United States. The Effects of Climate Change of the World's Oceans, Washington D.C.

Palacios-Abrantes J., Arreguín-Sánchez F, Cheung W. W., Cisneros-Mata M.A, Cisneros-Montemayor

A., Rodriguez L., Towards the creation of a metadata of marine research in Mexico: a case study of the Gulf of Mexico. State of the Gulf of Mexico, 2017. Houston, Texas

Felins E., Handelman T., Howard A., **Palacios-Abrantes J.**, Liu R. O., Melack J. 2016. ¹ A Citizen Science Monitoring Protocol for the Rocky Intertidal Habitat. Multi-Agency Rocky Intertidal Network Annual Meeting, Cabrillo National Monument, San Diego, California.

Palacios-Abrantes J., Melo V. y Urbano B. 2013.¹ Iron analysis from *Octopus hubbsorum* (Cephalopoda: Octopodidae) for human health. 12th International Symposium on Metal Ions, Punta del Este, Uruguay.

Palacios-Abrantes J., Melo V. y Urbano B. 2013.¹ Star fish source of calcium to prevent this metal's ion deficiency. 12th International Symposium on Metal Ions, Punta del Este, Uruguay.

Palacios-Abrantes J., Melo V. y Urbano B. 2012. Análisis proximal de *Octopus hubbsorum* (Cephalopoda: Octopodidae) en Acapulco Guerrero (México). Congreso de la sociedad Mesoamericana para la Biología y la Conservación, Panama City, Panama.

Palacios-Abrantes J., Melo V., y Urbano B. 2012. Análisis nutricional de callo de hacha *Atrina sp.* (Mollusca: Pinnidae) en México". Congreso de la Sociedad Mesoamericana para la Biología y la Conservación, Panama City, Panama.

Palacios-Abrantes J., Melo V., Jiménez H, Rivero J. (2011). Estrella de mar, un rico complemento alimenticio para comunidades costeras de bajos recursos. XV Congreso de la sociedad Mesoamericana para la Biología y la Conservación, Mérida, Mexico.

Palacios-Abrantes J., Melo V., Jiménez H., Rivero J. (2011). Ración de *Malacosoma azteca* para animales como estrategia de control de plaga en Xochimilco. XV Congreso de la sociedad Mesoamericana para la Biología y la Conservación, Mérida, México.

Palacios-Abrantes J., Luna B., Rivero J., Melo V. (2009). Influencia de factores abióticos en fase larval del *Malacosoma azteca*. 44° congreso Mexicano de Química. Puebla, México.

Palacios-Abrantes J., Luna B., Issac Y., Estrada D., Melo V. (2009)¹ Sea cucumber, underutilized source of macronutrients. 8° Simpósio Latino Americano de Ciência de Alimentos. Campinas, Brasil.

Melo V., **Palacios-Abrantes J.**, Rivero J., Herrera M. C., León F. (2009).¹ The application of betacyanin natural pigment in food processed. 8° Simpósio Latino Americano de Ciência de Alimentos. Campinas, Brasil.

Melo V., **Palacios-Abrantes J.**, Rivero J., Herrera M. C., Schettino B. (2009).¹ Retention of β carotene and ascorbic acid in fresh and processed vegetables. 8° Simpósio Latino Americano de Ciência de Alimentos. Campinas, Brasil.

PROFESSIONAL RESEARCH AND WORK EXPERIENCE

Peruvian Anchovy Stock Assessment (June 2016). Member of a team tasked to develop a tool for better manage the Anchovy fishery in Peru. A project in collaboration with The Nature Conservancy and the government of Peru.

TURF Legal Framework Analysis (October, 2015). Reviewed and analyzed the legal framework of Territorial Rights Use for Fisheries (TURFs) of Brazil, Chile and Spain. A report commissioned by Environmental Defense Fund, Mexico.

¹I was a member of the research team but did not present

Biological Assessment for Target Bivalves in Sinaloa, Mexico (October, 2015). A compilation of biological information of the target species of the Sinaloa project. A report commissioned by Environmental Defense Fund, Fisheries Solution Center.

Sinaloa TURF Design (September 2015). Managed and analyzed 4 years of data for 6 different mollusk species collected by 6 different communities. Design a potential management plan for the bay. The report was commissioned by Environmental Defense Fund, Mexico.

Intern for Environmental Defense Fund, Mexico (June – September 2015). Analyzed data and worked in the field to see if it was feasible to design a Territorial User Rights for Fisheries (TURF) to manage a high complex system in a bay of Sinaloa, Mexico.

Green Business Summit Coordinator (January 2013 - July 2013). Co-designed the agenda of the summit, managed invitations, coordinated a team of 4 people. Global Institute of Sustainability (GIS), Instituto Tecnológico de Estudios Superiores de Monterrey (ITESM) and Arizona State University (ASU), Mexico City Campus.

Dive Center Co-Owner (Jan 2011 - July 2015). *Servicios Subacuáticos Medusa*. Had different roles: Managed the financial aspects of the business. Coordinated over 30 diving trips both national and international. Instructed SCUBA classes. Managed the Store (sales and inventories).

Research Assistant (January 2009 – July 2014)². Worked for Dr. Virginia Melo Ruíz, Universidad Autónoma Metropolitana, Xochimilco. Contributed to research, gave classes, applied exams and attended to conferences to present our work.

Contribution to Research as a Scientific Diver (August 2008). Estrada D. *Estudio de la biodiversidad de equinodermos y moluscos, Isla Socorro, Archipiélago de Revillagigedo*. Thesis for a bachelor's degree in biology. Universidad Nacional Autónoma de México. Instituto de Ciencias del Mar y Limnología.

Intern for *Espacios Naturales y Desarrollo Sustentable, A.C* (September 2007- December 2007). The Worked as an intern for the NGO Espacios Naturales y Desarrollo Sustentable A.C. in México City. Organized, digitalized and analyzed a butterfly data base.

GRANTS AND AWARDS

Faculty of Science PhD. Tuition Award (September 2016 – To date)
Awarded by the *University of British Columbia* to pursue a PhD. In Zoology

International Tuition Award (September 2016 – To date)
Awarded by the University of British Columbia to pursue a PhD. In Zoology

Latin American Fisheries Fellow (LAFF) (August 2014- June 2016)
Awarded by The Walton Foundation to pursue a Master of Environmental Science and Management.

Mobility Program Award (January - December 2010)
Awarded by the *Universidad Autónoma Metropolitana* to go to the Sao Paulo University, Brazil.

SCIENTIFIC REPORTS

Cisneros-Montemayor, AM, **Palacios-Abrantes, J**, Abas, M. 2018. Impactos potenciales del cambio climático en las pesquerías mexicanas: Consideraciones para su manejo. Reporte elaborado para Environmental Defense Fund de México, A.C. 60 pp.

Herrera J., **Palacios-Abrantes J.**, Rodríguez S., Brunkow J., Molina R. (2016) Callo de hacha: restoration program and sustainable fishery in La Paz, BCS, Mexico. A report commissioned by

² 2010 Exception due exchange program abroad.

Noroeste Sustentable, A.C. 33 pp.

Palacios-Abrantes J. (2016) Status and management scenario for the mollusk fisheries of *Altata* Bay, Sinaloa, Mexico. Report was commissioned by Environmental Defense Fund-Mexico. Pp 37.

TEACHING EXPERIENCE AND MENTORING

Land Food and Community: Quantitative Data Analysis (January – May 2018) Introduction to tools needed for data analysis of the economic, ecological, health, and scientific components of land and food systems. Faculty of Land and Food Systems, University of British Columbia

Diving Instructor (May 2011 – July 2015). Instructed over 25 divers in different levels of sport diving. Assisted more than 50 courses over a 4-year period.

Undergrad Teacher Assistant (January 2009 – December 2012). Instructed classes of 20-30 students when needed.

Thesis co-direction for a bachelor's degree in biology. González L.M. 2013. *Macronutrientes de cefalopodos de importancia comercial en México*, Universidad Nacional Autónoma de México.

OTHER SKILLS

Languages: Spanish, Portuguese, and English (fluent in speaking, reading and writing)

TOEFL IBT: 105, November 15, 2013.

Computer: Microsoft Office, R-Studio (Advanced), MATLAB (basic), GitHub (intermediate).

Other:

- **Photography.** Worked as a photographer for different projects on the graphic studio, C. Newton, México City, México. (September 2007-December 2008).
- **Non-Professional Advanced Diving Credentials**
 - o Advanced Dive Instructor (SDI/TDI) (March 2012 – June 2014)
 - o Basic Dive Instructor (CMAS/FMAS) (March 2011 – March 2015)
 - o Basic & Advanced NITORX diver (SDI/TDI)
 - o Advanced Diver, (CMAS/FMAS)
 - o Basic Diver, (CMAS/FMAS)
 - o Scientific Diver, (SDI/TDI)
 - o Cave I Diver, (CMAS/FMAS)