

CV/ Biographical Sketch: Arturo Ramírez-Valdez

I am Ph.D. Candidate in Marine Biology at Scripps Institution of Oceanography, UC San Diego. After finishing my BSc in Marine Ecology and an MSc in Coastal Oceanography, both in Mexico, I taught Fish Ecology, Ecology and Biogeography at UABC Ensenada, Mexico. My main expertise is in fish ecology, with a focus on kelp forest and rocky intertidal ecosystems, but I also have a broad interest in marine ecology, biogeography, and marine conservation. I am passionate about incorporating robust science with practicable and timely marine management. I am interested in continuing my work in fish ecology maintaining a strong focus that involves the collaboration of multiple organizations, particularly between Mexico and the USA. I think that I can contribute to building strong relationships so that real, improved changes in marine resource management can happen in a timely and effective manner.

Keywords: Marine Conservation/ Fish Ecology/ Population Dynamics/ Ecology/ Marine Fisheries/ Transboundary Research/ Kelp Forest Ecology/ Fisheries Management/ Biogeography

A. EDUCATION

2014-Present PhD Student (Marine Biol)	Scripps Institution of Oceanography University of California, San Diego
2009 M.Sc. (Costal Oceanography)	Universidad Autónoma de Baja California, México Facultad de Ciencias Marinas
2003 Diploma (Ecol. & Environ. Manag.)	Universidad Autónoma de Guerrero, México Unidad Acad. Ecol. Marina/ UPAEP/ SEMARNAT
2003 B.Sc. (Marine Ecology) Honors Award	Universidad Autónoma de Guerrero, México Unidad Acad. Ecol. Marina

B. PROFESSIONAL EXPERIENCE

Graduate Student Researcher	2014-Present	Scripps Institution of Oceanography, UC San Diego. Marine Biology Research Division. La Jolla, California, USA.
Lecturer	2010-2014	Facultad de Ciencias Marinas, Universidad Autónoma de Baja California, Ensenada, Mexico.
Fisheries Auditor	2012-2014	CECS-UABC, Universidad Autónoma de Baja California, Mexico. Under M.C. Ángel López López (ICA-UABC)
Research technician	2012-2014	Instituto de Investigaciones Oceanológicas, UABC, Under Dra. Gabriela Montaña Moctezuma
Research technician	2008	Comunidad y Biodiversidad, A.C. (NGO) Under Drs. Andrea Saenz Arroyo & Fiorenza Michelli (Stanford University)
Scientific specialist	2007-2008	Grupo de Ecol. y Conservación de Islas A.C. (NGO). Under Dr. Alfonso Aguirre Munoz
Scientific fishery observer	2004-2005	National Program of Scientific Observers of the Shrimp Fleet FIDEMAR-CONAPESCA Mazatlan, Sinoloa, Mexico.
Environmental consultant	2001-2004	Selbach y Asociados, SA de CV Environmental Consulting, México DF

C. AWARDS, HONORS AND FELLOWSHIPS

1. Mia Tegner Fellowship 2018, Marine Biology Research Division, SIO UC San Diego (US \$4,000)
2. PADI Foundation 2018. Research Grant (US \$4,000)
3. PADI Foundation 2017. Research Grant (US \$6,000)
4. Western Society of Naturalist Travel Grant 2016
5. UC-Mexus - CONACYT Scholarship for graduate studies. PhD in Marine Biology, Scripps Institution of Oceanography, University of California San Diego, September 2014-August 2019.
6. National Oceanography Award Pedro Mercado Sánchez 2010, for the best graduate presentation in the National Oceanography Symposium. Mexican Oceanography Association (ASOCEAN) and FCM-UABC, Ensenada, BC.
7. National Award Dr. José Alvarez del Villar for the best M.Sc. Thesis 2010. Mexican Society of Ichthyology (SIMAC). XII National Symposium of Ichthyology, Nuevo Vallarta, Nayarit.
8. CONACYT Scholarship for graduate studies. M.Sc. Coastal Oceanography, (FCM-IIO, UABC) August 2005-July 2007.
9. Honors Award, B.Sc. Marine Ecology. "Taxonomic and ecological composition of the rocky intertidal fish community of the Guerrero coast, Mexico", Universidad Autónoma de Guerrero. Jun-2005.

D. PEER-REVIEWED PUBLICATIONS

1. Aburto-Oropeza, O., Johnson, A.F., **Ramírez-Valdez A.**, Taylor, J.E. and 94 coauthors in alphabetical order. 2018. Harnessing Cross-border Resources to Confront Climate Change. Environmental Science and Policy.
2. Palacios Salgado, D.S., **Ramírez-Valdez, A.**, Rojas Herrera, A., Melo, M.A.. Ecological structure of the soft-bottom ichthyofauna of the Acapulco bay, Mexico, Southern Pacific. Submitted to Latin American Journal of Aquatic Research 2018.
3. **Ramírez-Valdez A.**, O. Aburto-Oropeza, 18 coauthors, and P. Raimondi. 2017. Mexico-California bi-national initiative of kelp forest ecosystems and fisheries. White paper prepared for UC-Mexico Initiative. 48p.
4. Cavole L.M., Demko A.M., Diner R.E, Giddings A., Koester I., Pagniello C.M.L.S., Paulsen M., **Ramírez-Valdez A.**, Schwenck S., Yen N., Zill M.E., Franks P. 2016. Biological impacts of 2013-2015 Warm Water Anomalies in the Northeast Pacific: Winners, Losers and the Future. Oceanography.
5. **Ramírez-Valdez, A.**, Dominguez-Guerrero, I., Palacios-Salgado, D., Villaseñor-Derbez, J.C., Cota-Nieto, J.J., Correa-Sandoval, F., Reyes-Bonilla, H., Hinojosa-Arango, G., Hernández, A., Aburto-Oropeza, O. 2015. The near-shore fishes of the Cedros Archipelago (North-Eastern Pacific) and their biogeographic affinities. CalCOFI Reports 56, 143-167.
6. Palacios Salgado, D.S., **Ramírez-Valdez, A.**, Rojas Herrera A., Melo, M.A. 2014. Marine Fishes of Acapulco, Mexico (Eastern Pacific Ocean). Marine Biodiversity 44(4): 471-490. DOI: 10.1007/s12526-014-0209-4
7. Palacios-Salgado, D.S., L.A. Burnes-Romo, J.J. Tavera-Vargas & **A. Ramírez-Valdez** 2012. Endemic fishes of the Cortez biogeographic province. Acta Ichthyologica et Piscatoria. 42(29):153-164. http://www.aiep.pl/volumes/2010/3_3/txt/txt_01.php
8. Aguilar-Rosas, L., F. Correa-Sandoval, **A. Ramírez-Valdez**, I. Giffard-Mena & C. Aguilar Rosas. 2011. First record of Dictyopteris prolifera (Okamura) Okamura (Dictyotales, Phaeophyceae) on the Eastern Pacific coast. Marine Biodiversity Records 4:1-5.
9. Palacios-Salgado, D.S., **A. Ramírez-Valdez** & G. Ruiz-Campos. 2011. First record and establishment of the exotic poeciliid, *Poecilia butleri* (Teleostei: Poeciliidae) in the Baja California Peninsula, Mexico. California Fish & Game 97(2): 98-103.

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10. Palacios-Salgado, D.S. & **A. Ramírez-Valdez**. 2011. New records of demersal fishes in the Northwest of Mexico. *J. Fisheries and Aquatic Science*. 6(1):93-100.
 11. Ruiz-Campos, G., **A. Ramírez-Valdez**, S. González-Guzmán, J.L. Castro-Aguirre, A.F. González-Acosta & J. De La Cruz-Agüero. 2010. Composition, density and biogeographic affinities of the rocky intertidal fishes on the western coast of the Baja California peninsula, Mexico. *CalCOFI Rep.* Vol. 51: 210-220
 12. Reyes-Bonilla, H., L.E. Calderón-Aguilera, Y. Bedolla-Guzmán, A. Ayala-Bocos, **A. Ramírez-Valdez**, I. Sánchez, S. González-Romero. 2010. Checklist and biogeography of fishes from Guadalupe island, western Mexico. *CalCOFI Rep.* Vol. 51: 195-209.
 13. Ruiz-Campos, G., **A. Ramírez-Valdez**, S. González-Guzmán, A. González-Acosta & D. Acosta Zamorano. 2010. Length-weight and length-length relationships for nine rocky tide pool fishes from Pacific coast of the Baja California peninsula, México. *J. Appl. Ichthyol.* 26(1):118-119. DOI: 10.1111/j.1439-0426.2009.01344.x
 14. Palacios Salgado, D.S., **A. Ramírez-Valdez** & A.A. Rojas Herrera. 2008. First record of *Acanthurus nigricans* (Perciformes: Acanthuridae) and *Catherines dumerilii* (Tetraodontiformes: Monacanthidae) in Guerrero coast, México. *Mar Biod. Rec*, 2008(1): 1-2.

E. BOOKS AND CHAPTERS

1. **Ramírez-Valdez, A.**, M.P. Sgarlatta, JC Villaseñor-Derbez, JJ Cota-Nieto, TJ Rowell, A Gomez-Gomez, I Dominguez-Guerrero, et al. 2018. Manual para el monitoreo biológico del Mero gigante (*Stereolepis gigas*) en aguas mexicanas. Edited by COBI A.C. Mexico City. ISBN in process.
2. Salazar Araujo, P., **Ramírez-Valdez A.** Los peces de las pozas de mareas. In: La biodiversidad en Michoacán. Estudio de Estado 2. CONABIO, Nacional Financiera Fideicomiso Fondo para la Biodiversidad. In review.
3. López-Pérez, R.A., A.M. Torres-Huerta, R.C. Zepeta-Vilchis, D.S. Palacios-Salgado, **A. Ramírez-Valdez**, O. Valencia-Mendez, L.E. Calderón-Aguilera, H. Reyes-Bonilla, A. Cupul-Magaña, A.M. López-Ortiz, A. Ayala-Bocos. Biodiversidad de peces marinos del Pacífico Sur Mexicano. In: Bastida-Zavala R.; J. Meraz-Hernando. Biodiversidad marina y costera del Pacífico sur de México. In review.
4. Ruiz-Campos, G., González-Acosta, **A., Ramírez-Valdez, A.**, Valles-Río, M. 2016. Colección Ictiológica de la Universidad Autónoma de Baja California. In: Del Moral-Flores, Ramírez-Villalobos, J. et al. Colecciones Ictiológicas de Latinoamérica. SIMAC, UNAM.

F. STUDENT ADVISED

1. Sgarlatta, María Paula. 2015. CICESE - Center for Scientific Research and Higher Education at Ensenada, Baja California. M.Sc. Thesis (Marine Ecology). [Co-Chair]
2. Villaseñor-Derbez, Juan Carlos. 2015. Facultad de Ciencias Marinas, Universidad Autónoma de Baja California. National Oceanography Award Pedro Mercado Sánchez (Awarded), Marine Sciences student symposium 2013 (Awarded). [Chair]
3. Salazar Araujo, Paloma. 2012. Universidad Michoacana de San Nicolás de Hidalgo. Michoacán. B.Sc. Thesis (Biology). Co-advisor. *Honors Award and National Award Dr. José Alvarez del Villar for the best B.Sc. Thesis 2012. Mexican Society of Ichthyology (SIMAC) [Co-Chair]

SKILLS

Software and computer skills: R, Statistica, SPSS, Stella, ArcGIS, Primer-E, Access and SQL data bases, CorelDraw, ER Mapper, Idrisi Kil, Envi, Open Modeler, Tableau, MS Office.

Laboratory: Microscope experience on identifying fishes, and plankton samples. Molecular biology protocols (DNA, RNA extractions, PCR & electrophoresis). Fish collection management (Lab work and specialized scientific collections software).

Field: Diving Certification (NAUI), 2001. Scientific diving (AAUS) 2014 (> 1200 dives in dive log book; 800 dives in temperate system).

Independent field work in Baja California Peninsula, Gulf of California and Pacific islands, and South of Mexico. Field team member in intertidal and subtidal ecosystems surveys, kelp forest, rocky and coral reef (IIO-UABC, SIO – UC San Diego, Gulf of California Marine Program, COBI-Stanford University, PISCO-UC Santa Barbara). Field team leader in +20 trips in intertidal and subtidal surveys (kelp forest, rocky reef, soft bottom) (IIO-UABC, SIO – UC San Diego). Scientific observer in 3 cruises in Gulf of California Shrimp fishery (>25 days). Experience working with board and members of the Fishermen's Cooperatives in Baja California Peninsula. Deploy and retrieving oceanographic instruments on intertidal and subtidal. MX Driving license since 1995.

Read, speak and write in English and Spanish. TOEFL score 97 (March 2013).

G. CONTACT INFORMATION

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REFERENCES

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