

# *Curriculum Vitae* - **Luis Malpica-Cruz**

January 2025

## **I. - Personal Information**

1. - Name: **Luis Malpica-Cruz**
2. - Nationality: **Mexican**
3. - Languages: **Spanish, English, French (50%)**
4. - E-mail: **lmalpica@uabc.edu.mx**
5. - Web/social media: **malpicacruzlab.com, @luismalpicaC**
6. - Current Position: **Researcher, Instituto de Investigaciones Oceanológicas, UABC  
Scientific advisor, ECOCIMATI, A.C.**

## **II. - Education**

- Graduate:
- PhD (Biology with focus on Marine Ecology and Conservation)  
Simon Fraser University, Department of Biological Sciences  
Burnaby, BC, Canada. September 2012 – September 2017
- Master of Science (Marine Ecology)  
Center for Scientific Research and Higher Education of Ensenada (CICESE)  
Ensenada, BC, Mexico. September 2007 – December 2009
- Undergraduate:
- Bachelor of Science (Oceanography)  
Autonomous University of Baja California (UABC)  
Ensenada, BC, Mexico. August 2000 – December 2004

## **III. – Teaching**

- Scientific Underwater Monitoring – Training workshop to fishing cooperatives, October 2021, February 2022, November 2023, May 2024
- Social-ecological System Analyses (Graduate), UABC, yearly since Spring 2023
- Social-ecological System Resilience (Graduate), UABC, yearly since Spring 2022
- Ecology of Coastal Communities (Graduate), UABC, yearly since Spring 2023
- Ecological Data Analysis in R (Graduate course in English), UABC, yearly since Spring 2020
- Intro to Complex Systems Thinking (Graduate), UABC – yearly since Fall 2019
- Scientific Diving, – Summer 2019 and every June since 2022
- Written & Oral Communication, UABC – 2019-2020
- Teaching Assistant, Introduction to Biology, Simon Fraser University – Spring 2018
- Teaching Assistant, Introduction to Biology, Simon Fraser University – Fall 2017
- Instructor, Basic Stats in R workshop, SFU/Bamfield Marine Science Center – Summer 2017
- Instructor, Intro to R workshop, SFU/Bamfield Marine Science Center – Summer 2017
- Teaching Assistant, Marine Behavioral Ecology, Bamfield Marine Science Center – Summer 2017

## **IV. – Mentoring and supervision**

### **Graduate**

#### **Thesis supervision**

- Master's thesis, José Alberto Troncoso, UABC, 2024-
- Master's thesis, Pamela Gayoso Grijalva, UABC, 2024-
- PhD thesis, Evaristo Rojas Mayoral, UABC, 2024-
- PhD thesis, Paulina Filz, UABC, 2023-

- PhD thesis, Claudia I. Vázquez Aguilar, UABC, 2022-
- PhD thesis, Aaron Ibarra González, UABC, 2022-
- PhD thesis, Teresa Tavera Ortiz, UABC, 2021-
- Master's thesis, Nut Valeria Chávez Méndez, UABC, 2021-2024
- PhD thesis, Mariana Ferrera Rodríguez, UABC, 2020-2024
- PhD thesis, Antonio Gomez, UABC, 2020-2024 (with honors)
- Master's thesis, Alanh Hernández, UABC. 2019-2021 (with honors)

#### **Thesis committee member**

- Master's thesis, Camila Reyes Rincón, UABC, 2024-
- PhD thesis, Eduardo Calderón Alvarado, UABC, 2024-
- PhD thesis, Brandon Escárcega Miranda, UABC, 2024-
- PhD thesis, Eduardo Santiago Ojeda, UABC, 2023-
- PhD thesis, Álvaro Hernández Montiel, UABC, 2022-
- PhD thesis, Mayra G. Arredondo Gámez, UABC, 2021-
- PhD thesis, Víctor Ricárdez García, UABC, 2020-
- Master's thesis, Mildred, CICESE, 2022-2024
- Master's thesis, Daniela Amador, UABC, 2020-2022
- PhD thesis, Beatriz Ibarra, UABC. 2019-2024
- PhD thesis, Emiliano Gorr Pozzi, UABC, 2019-2023
- PhD thesis, Ainoa Villalta, UABC. 2019-2023
- PhD thesis, Jeremie Bauer, UABC. 2019-2023
- PhD thesis, María Esther Cruz Collín, UABC. 2018-2019

#### **Undergraduate**

##### **Thesis supervision**

- BSc Marine Biology, Ian Wendolyn Velázquez Pérez, UMAR (Universidad del Mar), 2024-

##### **Thesis committee member**

- Environmental Sciences, Nadia Pauleth Osorio, UABC, 2023-2024
- Environmental Sciences, Pamela Gayoso Grijalva, UABC, 2023-2024

##### **Supervision or oversight on terminal projects**

- Honours Thesis, Dalhousie University – Summer 2013-2014
- NSERC Undergraduate Student Research Award – Summer 2013

#### **V. – Peer Reviewed Publications**

1. Bauer, J., Beas-Luna, R., **Malpica-Cruz, L.**, Abadía-Cardoso, A., Filz, P., Bonilla, J.C., Lorda, J. Community-led management maintains higher predator biomass supporting kelp forests persistence in Baja California. *In press Scientific Reports*
2. Ferrera-Rodríguez, M.R., **Malpica-Cruz, L.**, Munguía-Vega, A., Beas-Luna, R., Flores-Morales, A.L., Abadía-Cardoso, A. 2024. Revealing genetic connectivity patterns across ecoregions in the northeastern Pacific of California and Baja California. 00, 1-14, *Journal of Biogeography*, <https://doi.org/10.1111/jbi.14988>

3. Dawkins, P.D., Paz-Lacavex A., Fiorenza, E.A., Rush, M.A., Beas-Luna, R., Lorda, J., **Malpica-Cruz, L.**, Sandoval-Gil, J.M., McHugh, T.A., Han, M.K., Bracken, M.E.S., Lamb, J.B. 2024. Field Collection and Laboratory Maintenance to Facilitate Restoration of Canopy-Forming Giant Kelp. *Journal of Visualized Experiments*. doi: 10.3791/66092
4. Gomez-Gomez, A., **Malpica-Cruz, L.**, Montaña-Moctezuma, C. G., Cisneros-Montemayor, A. M., Salomon, A. K., & Seingier, G. 2024. Diversity, challenges, and opportunities of Fishery Improvement Projects in the Latin America and the Caribbean region. *Marine Policy*, 163, 106116. <https://doi.org/10.1016/J.MARPOL.2024.106116>
5. Bauer, J., Beas-Luna, R., Lorda, J., Abadía-Cardoso, A., Searcy-Bernal, R., **Malpica-Cruz, L.**, 2024. Short-term effects of community-based marine reserves on green abalone, as revealed by population studies. *Scientific Reports*. 10.1038/s41598-023-50316-9
6. Arafeh-Dalmau, N., ...**Malpica-Cruz, L.**, ... et al. 2023. Integrating climate adaptation and transboundary management: Guidelines for designing climate-smart marine protected areas. *One Earth*. 10.1016/j.oneear.2023.10.002
7. Eger, A.M., Aguirre, J.D., Altamirano, M., ...**Malpica-Cruz, L.**, ... et al. 2023. The Kelp Forest Challenge: A collaborative global movement to protect and restore 4 million hectares of kelp forests. *J Appl Phycol*. <https://doi.org/10.1007/s10811-023-03103-y>
8. Vilalta-Navas, A., Beas-Luna, R., Zetina-Rejón, M.J., López-Ibarra, G.A., **Malpica-Cruz, L.**, Zepeda-Domínguez, J.A., Lorda, J. 2022. Coupling Peer-Review and Local Ecological Knowledge Network models for temperate coastal ecosystems. *ICES Journal of Marine Science*. <https://doi.org/10.1093/icesjms/fsac225>
9. Quintana A., Marcos, S., **Malpica-Cruz, L.**, Tamayo, L., Canto Noh, J.A., Fernández-Rivera Melo, F., Fulton, S. 2022. Socioeconomic dilemmas of commercial markets for invasive species: Lessons from lionfish in Mexico. *ICES Journal of Marine Science*. <https://doi.org/10.1093/icesjms/fsac205>
10. Félix-Loaiza, A.C., Méndez, L., De La Cruz, E., Beas-Luna, R., Lorda, J., **Malpica-Cruz, L.** 2022. Marine heatwaves facilitate invasive algae takeover as foundational kelp. *Botanica Marina*. 65(5), 315-319. <https://doi.org/10.1515/bot-2022-0037>
11. **Malpica-Cruz, L.**, Abadía-Cardoso, A., Aquino-Baleyto, M., et al. 2021. Empowering fishers for Great White Shark stewardship: Reply to Madigan et al. 2021. *Conservation Letters*. 14:e12828. <https://doi.org/10.1111/conl.12828>
12. Santana-Morales, O., Hoyos-Padilla, M., Sepulveda, C., Beas-Luna, R., Medellín-Ortíz, A., Aquino-Baleyto, M., Becerril-García, E., Arellano-Millán, D., **Malpica-Cruz, L.**, Lorda, J., Castillo-Géniz, J.L. 2021. How much is too much? A carrying capacity study of white shark cage diving in Guadalupe Island. *Marine Policy*. <https://doi.org/10.1016/j.marpol.2021.104588>
13. **Malpica-Cruz, L.**, Fulton, S., Zepeda-Domínguez, J.A., Quintana, A., Quiroga-García, B., Tamayo, L., Canto-Noh, J.A., Côté, I.M. 2021. Trying to collapse a population for conservation: commercial trade of a

marine invasive species by artisanal fishers. *Reviews in Fish Biology and Fisheries*. doi.org/10.1007/s11160-021-09660-0

14. Cruz-Colín, M.E., Montañño-Moctezuma, G., Cisneros-Mata, M.A., Espejel, I., Cisneros-Montemayor, A.M., **Malpica-Cruz, L.** 2021. Analysis of the Gulf of California cannonball jellyfish fishery as a complex system. *Ocean and Coastal Management*. 207:105610. doi: 10.1016/j.ocecoaman.2021.105610
15. Bauer, J., Beas-Luna, R., Lorda, J., **Malpica-Cruz, L.**, Lafarga-De la Cruz, F., Micheli, F., Searcy-Bernal, R., Rogers-Bennett, L., Bracamontes-Peralta, M. 2020. The effects of depth and diet on red abalone growth and survival in cage mariculture at San Jeronimo Island, Baja California, Mexico. *Ciencias Marinas* 46(4): 343-357. doi: 10.7773/cm.v46i4.3117
16. Lorda, J., Beas-Luna, R., **Malpica-Cruz, L.**, Steller, D., Tissot, B.N., Reyes-Bonilla, H. 2020. Building bridges not walls: The past, present, and future of international collaboration and research in northwest Mexico | Construyendo puentes en vez de muros: Pasado, presente y futuro de colaboraciones internacionales e investigación en el noroeste de México. *Ciencias Marinas*. 46(4):I–VI. doi: 10.7773/cm.v46i4.3233
17. Meza-Arce, M.I., **Malpica-Cruz, L.**, Hoyos-Padilla, M., Mojica, F.J., Arredondo-García, M.C., Leyva, C., Zertuche-Chanes, R., Santana-Morales, O. 2020. Unraveling the White Shark observation tourism at Isla Guadalupe, Mexico: actors, needs and sustainability. *Marine Policy* 119: 104056. doi: doi:10.1016/j.marpol.2020.104056
18. Santana-Morales, O., Abadía-Cardoso, A., Hoyos-Padilla, M., Naylor, G.J.P., Corrigan, S., **Malpica-Cruz, L.**, Aquino-Baleyto, M., Beas-Luna, R., Sepúlveda, C.A., Castillo-Géniz, J.L. 2020. The smallest known free-living White Shark *Carchardoron carcharias* (Lamniformes, Lamnidae): Ecological and management implications. *Copeia* 108(1): 39-46 doi: 10.1643/OT-19-233
19. **Malpica-Cruz, L.**, Green, S.J., Côté, I.M. 2019. Temporal and ontogenetic changes in the trophic signature of an invasive marine predator. *Hydrobiologia*. doi: 10.1007/s10750-019-03996-2
20. Francis, F.T., Howard, B.R., Berchtold, A.E., Branch, T.A., Chaves, L.C.T, Dunic, J.C., Favaro, B., Jeffrey, K.M., **Malpica-Cruz, L.**, Maslowski, N., Schultz, J.A., Smith, N.S., Côté, I.M. 2019. Shifting headlines? Size trends of newsworthy fishes. *PeerJ*. 7: e6395. doi: 10.7717/peerj.6395
21. Christopher Bird, Clive Trueman, Ana Verissimo, ... **Malpica-Cruz, L.**, ... Tak-Cheung Wai, David Wells, Alex Wyatt. 2018. Sharks connect food webs across the global ocean. *Nature Ecology & Evolution*. doi:10.1038/s41559-017-0432-z
22. Smith, N.S., Côté, I.M., Martínez-Estévez, L., Hind-Ozan, E.J., T.E. Angela L. Quiros, Johnson, N., Green, S.J., Cornick, L., Shiffman, D., **Malpica-Cruz, L.**, Besch, A.G., Shiel-Rolle, N., 2017. Diversity and Inclusion in Conservation: A Proposal for a Marine Diversity Network. *Frontiers in Marine Science*. 4:234.
23. **Malpica-Cruz, L.**, Haider, W., Smith, N.S., Fernández-Lozada, S., Côté, I.M. 2017. Heterogeneous attitudes of tourists towards lionfish in the Mexican Caribbean: Implications for invasive species management. *Frontiers in Marine Science*. 4:138.

24. Godwin, S.C., Francis F.T.-Y., Howard, B.R., **Malpica-Cruz, L.**, Witter, A.L. 2017. Towards the economic viability of local seafood programs: Key features for the financial performance of community supported fisheries. *Marine Policy*. 81:375-380.
25. **Malpica-Cruz, L.**, Chaves, L.C.T., Côté, I.M. 2016. Managing marine invasive species through public participation: Lionfish derbies as a case study. *Marine Policy*. 74:158-164.
26. Côté, I.M., Darling, E.S., **Malpica-Cruz, L.**, Smith, N.S., and Green S.J. 2014. What doesn't kill you makes you wary? Effect of repeated culling on the behaviour of invasive lionfish. *PLoS ONE* 9(4): e94248.
27. **Malpica-Cruz, L.**, Herzka, S.Z., Sosa-Nishizaki, O., and Escobedo-Olvera M.A. 2013. Size-based feeding of mako and white sharks based on tissue-specific stable isotope ratios and modeled turnover rates. *Fisheries Oceanography*. 22(6): 429-445.
28. **Malpica-Cruz, L.**, Herzka, S.Z., Sosa-Nishizaki, O., and Lazo, J.P. 2012. Tissue-specific isotope trophic discrimination factors and turnover rates in a marine elasmobranch: empirical and modeling results. *Can J Fish Aqua Sci*. 69: 1-14.

## VI. – Book chapters

1. Oñate-González, E.C., Sosa-Nishizaki, O., **Malpica-Cruz, L.**, Castillo-Géniz, J.L., Corro-Espinosa D. 2022. Capítulo 12: *Carcharodon carcharias* (Linnaeus, 1758) Tiburón Blanco, white shark. En: O. Sosa-Nishizaki, J.L. Castillo-Géniz, H. Benítez-Díaz (eds). “Conservación, Uso y aprovechamiento de sustentable de tiburones mexicanos listados en la CITES”. CONABIO. México. 372 pp.
1. Cruz-Collín, M.E., Ricárdez-García, V.A., **Malpica-Cruz, L.**, Rodríguez-Cardozo, L., Cisneros-Montemayor, A., Zepeda-Domínguez, J.A., García-Searcy, V. 2019. Dimensión Social en Ecosistemas Marinos y Costeros. En: Paz-Fellat, F., J.M. Hernández-Ayón, R. Sosa-Ávalos, A.S. Velázquez-Rodríguez (eds). “Estado del Ciclo del Carbono: Agenda Azul y Verde”. Programa Mexicano del Carbono. Texcoco, Estado de México, México. 661-686. ISBN: 978-607-964907-4.
2. Beas-Luna, R., Lorda, J., **Malpica-Cruz, L.**, Montañño-Moctezuma, G., Zepeda-Domínguez, J.A., Vaca-Rodríguez, J.V., Abadía-Cardozo, A. 2019. Bosques de Macroalgas en Arrecifes Templados. En: Paz-Fellat, F., J.M. Hernández-Ayón, R. Sosa-Ávalos, A.S. Velázquez-Rodríguez (eds). “Estado del Ciclo del Carbono: Agenda Azul y Verde”. Programa Mexicano del Carbono. Texcoco, Estado de México, México. 103-124. ISBN: 978-607-964907-4.
3. Santana-Morales O. and **Malpica-Cruz, L.** 2016. The return of the white shark. In: J.A. Brandi Herrera, and V. Martínez Valdés, (eds). “Science towards the future”. CONACyT (National Commission of Science and Technology, Mexico) (In Spanish). 161-164. ISBN 978-607-725-294-8
4. **Malpica-Cruz, L.** 2016. Lionfish, anecdote of an invasion. In: J.A. Brandi Herrera, and V. Martínez Valdés, (eds). “Science towards the future”. CONACyT (National Commission of Science and Technology, Mexico) (In Spanish). 165-168. ISBN 978-607-725-294-8

## VII. - Presentations

### XII Mexican Coral Reef Congress – III Pan-American Coral Reef Congress

#### Talks

“Resilience of the Red Sea Urchin Fishery in Baja California” (co-author)

“Learning from Marine and Coastal Nature-based Solutions: Synergies Between Societal Challenges and Ecosystem Recovery” (co-author)

Poster

“Elucidating Genetic Patterns Between Northeastern Pacific Ecoregions in California and Baja California” (co-author)

Ensenada, B.C., Mexico. April 2024.

X National Symposium on Sharks and Rays – III Latin American Congress on Sharks, Rays, and Chimeras – Talk

“The Use of Acoustic Telemetry for the Study, Conservation, and Management of Elasmobranchs in Mexico and Latin America” (co-author)

UMAR, Oaxaca, Mexico. September 2023.

Scientific Diving Seminar – Talk

“UABC Scientific Diving Program, Mexico”

FEDESUB-CMAS, Chile, Online webinar. February 2023.

XI Mexican Coral Reef Congress – II Pan-American Coral Reef Congress – Talk

“Resilient Fisheries in Temperate Reefs of Northwestern Mexico”

Veracruz, Ver., Mexico. September 2022.

XXI National Congress of Oceanography – III International Meeting on Marine Sciences – Talk

“Assessment of Red Sea Urchin (*Mesocentrotus franciscanus*) Transplants as a Fishery Management Strategy in El Rosario, Baja California, Mexico” (co-author)

Ensenada, B.C., Mexico. September 2021.

Scientific Diving Seminar – Talk

“Scientific Diving in Mexico: Efforts, Challenges, and Opportunities”

FEDESUB-CMAS, Chile, Online webinar. October 2022.

Aquaculture 2022 – Talk

“Promoting Conservation and Management Actions to Recover Abalone Populations in Mexico” (co-author)

San Diego, California, USA. February 2022.

101st Western Society of Naturalists Annual Meeting 2020

Talks:

“Management Action to Enhance Red Sea Urchin (*Mesocentrotus franciscanus*) Fishery in El Rosario, Baja California, Mexico” (co-author)

“The New Normal for Kelp Forest at Isla Todos Santos” (co-author)

“Abalone Mariculture in Baja California: A Conservation Aquaculture Project” (co-author)

Online webinar. November 2020.

Binational Workshop on Abalone Restoration and Restocking – Talk

“Management for Abalones in Baja California for an Uncertain Future” (co-author)

Online webinar. October 2020.

1<sup>st</sup> Scientific Diving Seminar – Talk

“Scientific Diving in Mexico: Efforts, Challenges, and Opportunities”

FEDESUB-CMAS, Chile, Online webinar. October 2020.

Coastal Oceanography Graduate Seminar, IIO-UABC – Talk

“Unexpected Indirect Effects of Managing Marine Invasive Species”  
IIO-UABC – Online webinar. March 2020.

Island Ecology and Conservation NGO Seminar – Talk

“Artisanal Fishers: Heroes or Villains in the Fight Against Invasive Species?”  
GECI, A.C. – Ensenada, B.C., Mexico. November 2019.

100th Western Society of Naturalists Annual Meeting 2019

Talks:

“Can Fishing Be a Tool to Control Marine Invasive Species?”

“The Effects of Depth and Diet on Red Abalone Growth and Survival in Cage Mariculture at San Jeronimo Island, Baja California, Mexico” (co-author)  
Ensenada, B.C., Mexico. November 2019.

Environment and Development Graduate Seminar – Talk

“Fishing as a Tool to Combat Invasive Species”  
IIO-UABC – Ensenada, B.C., Mexico. September 2019.

Coastal Oceanography Graduate Seminar – Talk

“Journeys Through Trophic Links”  
IIO-UABC – Ensenada, B.C., Mexico. October 2018.

Departmental seminar cycle “Les Ecologistes” – Talk

“Trophic impacts of lionfish on coral reefs”  
Simon Fraser University – Biological Sciences. Burnaby, BC, Canada. October 2016.

4th International Marine Conservation Congress 2016 – Talk

“Wanted or not? Attitudes towards invasive lionfish in the Mexican Caribbean.”  
St. John’s, NL, Canada. August 2016.

8th Inter-Departmental Ecology of Aquatic Species (IDEAS) Symposium 2016 – Talk

“What drives the success of lionfish derbies? A regional analysis.”  
SFU, Burnaby, BC, Canada. January 2016.

8th Inter-Departmental Ecology of Aquatic Species (IDEAS) Symposium 2016 – Talk (coauthor)

“Sink or swim: the economic viability of community supported fisheries.”  
SFU, Burnaby, BC, Canada. January 2016.

68th Gulf and Caribbean Fisheries Institute Meeting 2015 – Lionfish Symposium – Poster

“What drives the success of lionfish derbies? A regional analysis.”  
Panama City, Panama. November 2015.

Rufford Small Grants Mexico Conference 2015 – Talk

“The Socioeconomic Impacts of a Marine Invader”  
San José del Cabo, BCS, Mexico. February 2015.

7th Inter-Departmental Ecology of Aquatic Species (IDEAS) Symposium 2015 – Talk

“Impacts of a stressor on Ecosystem Processes and Services”  
SFU, Burnaby, BC, Canada. January 2015.

95th Western Society of Naturalist Annual Meeting 2014 – Talk

“The Changing Trophic Impacts of a Marine Invader”  
Tacoma, WA, USA. November 2014.

Departmental seminar cycle “Les Ecologistes” – Talk

“What doesn’t kill you makes you wary? Effect of culling on the behavior of lionfish”  
Simon Fraser University – Biological Sciences. Burnaby, BC, Canada. April 2014.

35th Pacific Ecology and Evolution Conference 2014 – Talk

“What doesn’t kill you makes you wary? Effect of culling on the behavior of lionfish”  
Bamfield Science Centre. Bamfield, BC, Canada. February 2014.

Departmental seminar cycle “Les Ecologistes” – Talk

“Evaluation of Trophic Levels and Feeding Grounds of Northeastern Pacific Sharks as a Function of Ontogeny Based on Stable Isotope Analysis”  
Simon Fraser University – Biological Sciences. Burnaby, BC, Canada. November 2012.

IV National Symposium of Sharks and Rays – Talk

“Evaluating the use of stable isotopes analysis to study shark's trophic ecology, a laboratory approach”  
Mexican Society of Cartilaginous Fishes (SOMEPEC)  
UNAM. Mexico City, Mexico. October 2010.

Meeting of the Mexican Fisheries Society/Mexican Chapter of the American Fisheries Society – Talk

“Evaluation of Trophic Levels and Feeding Grounds of Northeastern Pacific Sharks as a Function of Ontogeny Based on Stable Isotope Analysis”  
CICESE. Ensenada, B.C., Mexico. May 2010.

International White Shark Symposium – Talk

“Evaluation of Trophic Levels and Feeding Habitat of White Sharks as a Function of Ontogeny Based on Carbon and Nitrogen Stable Isotope Analysis of Blood and Muscle”  
Honolulu, HI, USA. February 2010.

**VIII. - Participation in Projects and Projects Developed**

“Seeking Sustainability in Baja California: Strategies to Increase the Resilience of Coastal Socio-Ecological Systems”  
UABC, Ensenada, B.C., Mexico. August 2022-2 – Present.

“Assessment of the Resilience of Kelp Forests in the Pacific of Baja California: The Case of the Red Sea Urchin Fishery”  
UABC, Ensenada, B.C., Mexico. August 2022-2 – Present.

“Elucidating Interactions Between Fishing Activities and Marine Natural Resources in Baja California's Kelp Forests”  
UABC, Ensenada, B.C., Mexico. August 2019 – Present.

“Ecological and Socioeconomic Impacts of the Lionfish Invasion in the Gulf of Mexico and Caribbean”.  
Simon Fraser University and ECOCIMATI, A.C. Veracruz and Cozumel, Mexico, 2014 to present.

“Biological Monitoring of White Shark (*Carcharodon carcharias*) at the Guadalupe Island Biosphere Reserve”. ECOCIMATI, A.C. Ensenada, BC, Mexico, 2014 to present.



“Ecological effects of the invasion of predatory lionfish (*Pterois volitans* and *P. miles*) in The Bahamas”. Simon Fraser University, Cape Eluthera Institute, Reef Environmental Education Foundation. Eleuthera Island, The Bahamas, January 2013 – 2016.

“Biological Monitoring of Whale Shark (*Rhynchodon typus*) at the Bahía de los Angeles and Salsipuedes Biosphere Reserve”. ECOCIMATI, A.C. Bahía de los Angeles, BC, Mexico, 2014.

“California Condor (*Gymnogyps californianus*) survey in San Pedro Martir National Park”. ECOCIMATI, AC. San Pedro Martir, B.C., Mexico. February 2012 – 2014.

“Mammals survey in San Pedro Martir National Park”. ECOCIMATI, AC. San Pedro Martir, B.C., Mexico. August 2011 – to 2012.

“Golden eagle (*Aquila chrysaetos*) survey in San Pedro Martir National Park”. ECOCIMATI, AC. San Pedro Martir, B.C., Mexico. February 2011 – to 2013.

“Establishing the baseline for the monitoring of distribution and abundance of white sharks (*Carcharodon carcharias*) in Guadalupe Island Biosphere Reserve”. CICESE. Isla Guadalupe, Mexico. September 2009 - March 2010.

## **IX. – Editor, reviewer, referee or Peer Review Activities**

### **Indexed Research Journals**

- Ciencias Marinas (Guest editor, Special number)
- People and Nature
- NeoBiota (x2)
- Aquatic Conservation: Marine and Freshwater Ecosystems
- Hidrobiológica
- Environmental Biology of Fishes (x2)
- Global Environmental Change (x2)
- Frontiers in Marine Science
- Management of Biological Invasions
- Plos ONE
- Environment, Development and Sustainability
- Ambio (x2)
- PeerJ
- Fisheries
- Aquatic Biology
- Latin American Journal of Aquatic Research (x3)
- Biological Conservation
- Marine Ecology Progress Series
- Journal of Experimental Marine Biology and Ecology (x2)
- Aquatic Invasions
- Discover Oceans
- Canadian Journal of Fisheries and Aquatic Sciences
- Biological Invasions
- North American Journal of Fisheries Management

### **Admission to Graduate Programs**

Marine Ecology Graduate Program, CICESE (2022)  
Coastal Oceanography Graduate Program, UABC (2023)

### **Mexican Research and Science Council (CONAHCyT)**

Frontier and Basic Science Grants (2024)  
Researchers for Mexico (2021)

### **Mexican Secretariat of Public Education (SEP)**

PRODEP Academic profile (2023)

## **X. - Professional Experience**

Associate Professor-Researcher: Instituto de Investigaciones Oceanológicas, Universidad Autónoma de Baja California. Ensenada, B.C. Agosto 2018 – present.

Scientific Advisor: Oversight of proposals, manuscripts and technical reports.  
ECOCIMATI, AC. (Environmental research and conservation-oriented NGO; [www.ecocimati.org](http://www.ecocimati.org))  
Ensenada, B.C. Mexico, January 2012 – present.

Research Assistant: Data collection and analysis, grant proposal preparation, research papers preparation.  
The Marine Ecology Laboratory/Earth to Ocean Research Group at Simon Fraser University  
Burnaby, BC, Canada, September 2012 – 2017.

General Coordinator: Coordinate project leaders, data analysis, preparation of proposals and technical reports.  
ECOCIMATI, AC.  
Ensenada, B.C., Mexico. January 2011 – December 2012.

Field technician  
Guadalupe Island Biosphere Reserve – National Commission of Natural Protected Areas (CONANP)  
Ensenada, B.C., Mexico. July – December 2010.

Field/Research assistant  
Fisheries Ecology Laboratory - Biological Oceanography Department - CICESE  
Ensenada, B.C., Mexico. September 2009 – June 2010.

## **XII. - Grants/Awards**

- XXIII Research Project Grants, UABC. Spring 2023
- XXII Research Project Grants, UABC. Spring 2021
- XXI Research Project Grants, UABC. Spring 2020
- Research Starting Grant Mexican Public Education Secretariat. Fall 2019
- Graduate Fellowship – Biological Sciences Dept., SFU. Fall 2016.
- Travel Research Award – Biological Sciences Dept., SFU  
Travel grant to attend International Conference. August 2016.
- Travel Research Award – Biological Sciences Dept., SFU  
Travel grant to attend International Conference. November 2015.
- Doctoral Research Award – International Development Research Center (IDRC)  
Research grant for PhD project. March 2014 - March 2015.
- Research Grant – Rufford Small Grants Foundation  
Research grant for PhD project. May 2014 - June 2015.
- Graduate International Research/Travel Award - Biological Sciences Dept., SFU  
Research grant for PhD project. April 2014 - July 2014.
- Provost International Fellowship – SFU  
Fellowship towards a PhD in Biology at SFU  
Burnaby, BC. Canada September 2012 - August 2016.
- Graduate studies scholarship recipient – National Council for Research and Technology (CONACyT)  
Scholarship towards a PhD in Biology – Simon Fraser University  
Burnaby, BC. Canada September 2012 - August 2016.
- 1<sup>st</sup> Place “Shelly Applegate Award”, best graduate thesis on elasmobranch research. Mexican Society of Cartilaginous Fishes (SOMEPEC) and National Autonomous University of Mexico (UNAM)  
Ciudad Universitaria, Mexico, D.F. October 2010.
- Graduate studies scholarship recipient – CONACyT

Scholarship towards a MSc in Marine Ecology - CICESE  
Ensenada, B.C., Mexico, September 2007 - August 2009.

### **XIII. - Associations**

- Mexican Federation of Underwater Activities (FMAS) - Since October 2018
- Western Society of Naturalists (WSM) - Since September 2010
- Society for Conservation Biology (SCB) - Since February 2011
- Sociedad de Peces Cartilagosos (Mexican Society of Cartilaginous Fishes) - Since September 2010
- ECOCIMATI, A.C (Environmental research and conservation-oriented NGO) - Co-founder member Mexico, since May 2010
- Sociedad Mexicana de Arrecifes Coralinos (Mexican Society of Coral Reefs) – Since March 2006 to 2007.

### **XIV. - Professional qualifications/Complementary studies/Skills**

#### **Teaching**

- Certificate Program in University Teaching and Learning – SFU, Burnaby, Fall 2016
- Instructional Skills Workshop – SFU, Burnaby, August 2016

#### **Languages**

- English: Professional Level - 104 TOEFL Internet-based test 2010
- French: Level I-VI - Alliance Française and Language faculty at UABC Ensenada, B.C. and Xalapa, Ver., Mexico 2005-2010

#### **SCUBA Diving**

- Dive Instructor 2\*\* – World Underwater Federation (CMAS). June 2019
- CMAS Scientific Diving Instructor – World Underwater Federation (CMAS). Quintay, Chile, October 2018
- Dive Instructor 1\* – World Underwater Federation (CMAS). October 2018
- Scientific diver CAUS 1 – Canadian Association of Underwater Science Vancouver, BC, Canada. April 2013
- Open Water Dive Instructor – Open Water Scuba Instructor #211736 - PADI Rancho Sta. Margarita CA. USA July 2010

#### **Boating**

- Small Vessel Operator Proficiency (SVOP) – Vancouver, BC, Transport Canada, April 2017
- VHF with DCS restricted operator – Vancouver, BC, Transport Canada, April 2017

#### **Rescue and First Aid**

- Aquatic Rescue, First Aid and CPR Instructor – Mexican Federation of Aquatic Activities. November 2020
- Oxygen Provider Instructor – Mexican Federation of Aquatic Activities. November 2020
- Marine Emergencies Duties (MED A3) – Vancouver, BC, Transport Canada, April 2017
- Emergency First Response Instructor – #211736 - CPR/First Aid/AED – EFR – PADI La Paz, B.C.S., Mexico. June 2010
- Emergency Management System – Forestry National Commission (CONAFOR-Mexico). Ensenada B.C. Mexico. June 2010

- 6th Border Wildfire Protection Course – Forestry National Commission (CONAFOR-Mexico), California Department of Forestry and Fire Protection, US Forest Service. Tecate B.C., Mexico. April 2010
- State Park Lifeguard Training - State of California, Department of Parks and Recreation. Huntington Beach, CA. USA. June 2005

#### Photography

- Photography I-III - School of Arts at Baja California Autonomous University (UABC) Ensenada, B.C., Mexico. June 2001 - June 2003.
- Underwater photography – PADI, Mahahual, Q.Roo, October 2006

#### Software

Microsoft Office – R (plyr, dplyr, reshape2, tidyr, vegan, SIAR, MixSIAR, RGIS, ggplot, lme4) – GitHub version control – LaTeX – QGIS – Adobe Illustrator – Adobe Photoshop

### XV. – Science Communication/outreach

- Interview on Mongabay digital media, March 2023 – *Can we control marine invaders by eating them?*  
[Link](#)
- Interview on Mongabay digital media, June 2023 – *“Fattening up urchins”: The challenge of conserving a species, marine forests, and the livelihood of fishers in northern Mexico*  
[Link](#)
- Interview on EurekAlert/AAAS digital media, October 2022 – *‘Warm Blob’ marine heatwave helps invasive algae take over Baja Californian waters*  
[Link](#)
- Participation in outreach for a study on red sea urchin fishery management by artisanal fishers in the Mexican Pacific and recognition of an MSC scholarship – Radio UABC – May 25, 2022  
[Podcast](#)
- Abadía-Cardoso, A., Beas-Luna, R., Lorda, J., **Malpica-Cruz, L.**, Zepeda-Domínguez, J.A. *Transitioning to resilient fisheries in northwestern Mexico*. La Jornada del Campo, Issue 176 – May 21, 2022
- Support for a doctoral student’s interview in Gaceta UABC – May 11, 2022  
[Link](#)
- Participation in outreach about Marine Ecology studies and their integration with the Ecosystem Management graduate program – Radio UABC – April 21, 2022  
[Podcast](#)
- Abadía-Cardoso, A., Beas-Luna, R., Lorda, J., **Malpica-Cruz, L.**, Zepeda-Domínguez, J.A. *MexCal: Monitoring and Enhancing the Resilience of Temperate Social-Ecological Systems*. Baja Working Group – Climate Science Alliance – 2021
- Participation in outreach for a study and publication on managing the lionfish invasion by artisanal fishers in the Mexican Caribbean – Radio UABC – June 4, 2021  
[Podcast](#)
- Participation in outreach for Marine Ecology studies conducted as a researcher at IIO-UABC and as a member of the Academic Group for Ecology, Conservation, and Management of Marine Resources – Radio UABC – November 27, 2020  
[Podcast](#)
- Zepeda-Domínguez, J.A., **Malpica-Cruz, L.**, Lorda, J., Beas-Luna, R. *Collective action in northwestern fisheries*. La Jornada del Campo, Issue 137 – February 16, 2019
- Presenter of the book: *“Resilience of Coastal Socio-Ecosystems”*, Coastal Resilience National Laboratory – UNAM – September 2020  
[Link](#)
- Panel moderator: “Chasing Coral”, Hot Docs + VIFF – July 2017

- Doctoral research project featured in Hakai Magazine – “*Money Might Not Be Enough to Stop the Lionfish Invasion*” (July 2017): [Hakai Magazine](#)
- Organizing team: “Young Researchers Open Letter” (Fall 2016): [Young Researchers Open Letter](#)
- Onboard scientist: “Shark Men Season 1”, National Geographic – Fall 2010