

CURRICULUM VITAE

Date of birth: January 11, 1984

Place of birth: Lima, Peru

Citizenship: Peruvian

EDUCATION

October 2015 **MSc. in Tropical Aquatic Ecology**
Universität Bremen – Bremen, Germany
Master Programme: International Studies of Tropical Aquatic Ecology – ISATEC
Thesis: “*Diet composition and overlap of five commercial marine species of Chwaka Bay, Zanzibar, Tanzania*”. Supervisors: Prof. Dr. Matthias Wolff (ZMT, Bremen) and Dr. Narriman S. Jiddawi (IMS, Tanzania).
Submitted and graded as *very good* in Bremen, August 2015. Funding: studies by DAAD Scholarship (A/13/91888); thesis by SUTAS project (Leibniz Association).

June 2012 **Fisheries Engineering Degree**
Universidad Nacional Agraria la Molina (UNALM) – Lima, Peru
Thesis: “*Movement and dispersal of *Argopecten purpuratus* under three forms of sowing in Bahía de Sechura, Piura*”. Supervisor: Dr. Jaime Mendo (UNALM, Peru).
Submitted and graded as *outstanding* in Lima, December 2011. Funding: Government-funded project (FINCyT N° 001-2009).

July 2009 **Bachelor of Science in Fisheries Engineering**
Fisheries Faculty (2001-2008) – Lima, Peru

PROFESSIONAL EXPERIENCE

November 2023 to date
Researcher within the Second Phase of the Humboldt-Tipping Project
Leibniz Centre for Tropical Marine Research (ZMT) – University of Bremen, Germany
WG Spatial Ecology and Interactions – Department of Integrated Modelling

April 2019 to March 2024
Doctoral student within the Humboldt-Tipping Project
Leibniz Centre for Tropical Marine Research (ZMT) – University of Bremen, Germany
WG Resource Management – Department of Theoretical Ecology and Modelling

November 2017 – March 2019
Head of the North-Western Macro-Regional Office based in Piura
National Programme for the Innovation of Fisheries and Aquaculture (PNIPA)
Funded by the Ministry of Production of Peru (PRODUCE) and the World Bank.

2017 (March – December)

Member of the technical team in charge of the fisheries component

Sub-project for the “Lobos de Afuera” islands, as part of the Project “Strengthening the Sustainable Management of the Guano islands and capes National Reserve (RNSIIPG)”

Leading institution: NGO Pro Delphinus, Peru

Funded by the Global Environment Facility (GEF), in collaboration with the National Service of Natural Protected Areas (SERNANP)

July 2016 – August 2017

Member of independent consultant team

Consultancy 1: Assessment of current practices and proposal for the design of a data collection system for the traceability of Peruvian Mahi-Mahi

Consultancy 2: Implementation of a Pilot Project for the collection of landing data in the context of small-scale fisheries (Mahi-Mahi and giant squid) traceability system.

Consultancy 3: Technical support for WWF-Peru and WWF-US for assessing traceability in the process of Peruvian Mahi-Mahi purchase by US buyers.

Requiring institution: NGO WWF-Peru; Consultancy leaders: Renato Gozzer and Jorge Grillo

2017 (February – June)

Independent consultant

Consultancy: Diagnosis of stakeholders and possible alliances in the Macro Region of northern Peru

Requiring institution: National Program of Fisheries and Aquaculture Innovation (PNIPA) of the Ministry of Production, Peru

January 2016 – February 2017

Technical Director

Project: Capacity building to improve productivity in the artisanal fisheries of Talara, Paita and Sechura, Piura, Peru

Funded by the Regional Government of Piura, Peru

2015 (October – December)

NGO Pro Delphinus, Peru

Assistance in scientific data analysis and publication

2012 – 2013 (April – April)

Acuícola Sechín S.A. – Peru

*Field Manager and Assistant to General Manager; company dedicated to the culture (bottom and suspended) and exportation of scallop *A. Purpuratus*.*

September 2009 – December 2011

Government funded project (FINCYT): “Scientific and Technological bases to increase the productivity of the scallop *Argopecten purpuratus* in restocking areas of Sechura Bay, Piura, Peru” – Piura, Peru. Field resident and research coordinator

General coordinator: Dr. Jaime Mendo, UNALM.

COURSES, CONFERENCES AND WORKSHOPS

2022 (October 24th – November 2nd)

Summer School: Generating impact in complex natural resource contexts: co-design and development of transdisciplinary research projects"

Leibniz ZMT Bremen – Online

2022 (September 19-23rd)

Conference: Open Science Conference on Eastern Boundary Upwelling Systems (EBUS): Past, Present and Future & Second International Conference on the Humboldt Current System

Lima, Peru

Oral presentation: *"Resilience of two Peruvian bay ecosystems under projected environmental trends and resource use scenarios: the case of Independencia and Sechura"*. A. Del Solar, G. Romagnoni, M. Wolff.

2022 (September 5-8th)

Conference: ECSA 59 – Using the best scientific knowledge for the sustainable management of estuaries and coastal seas

Donostia, Basque Country, Spain

Oral presentation: *"Anticipated response of two Peruvian bays to projected environmental trends: the case of Independencia and Sechura"*. A. Del Solar, G. Romagnoni, M. Wolff.

2019 (December 4-11th)

Conference-Workshop-Course: Ecopath 35 years – Making Ecosystem-Based Management Operational

Saint Petersburg, Florida, USA

Poster: *"Ecological and socio-economic tipping points of coastal areas within the Northern Humboldt Current Upwelling System: Insights from trophic modelling and time series analysis in Sechura and Pisco, Peru"*. A. Del Solar, M. Wolff.

2019 (November 11-15th)

Course: Introducción al Modelado Ecosistémico utilizando Ecopath con Ecosim (EwE)

Universidad Peruana Cayetano Heredia – Lima, Peru

2018 (October 4-15th)

Workshop-Course: Network analysis for the management of innovation in fisheries and aquaculture

Universidad Autónoma de Chapingo, Mexico – Lima, Peru

2018 (June 3-8th)

Sharks International Conference

Joao Pessoa, Brazil

Co-author of poster: *"Sharks trade and consumption in Peru: need for an integrated management in a value chain where nothing is wasted"* – Presented by first author, Eliana Alfaro Córdova.

2017 (July 17-21st)

Course: Leveraging actionable science to combat IUU fisheries in the Eastern Pacific Ocean
Escuela Politécnica del Litoral – Guayaquil, Ecuador

2017 (March 27-31st)

Regional Conference of American collaborators of the Center for Tropical Aquatic Ecology in Bremen (ZMT): Management and conservation of coastal ecosystems in Latin America.
Universidad de Magdalena – Santa Marta, Colombia

2017 (January 9-14th)

Course: Use of Stable Isotopes & Fatty Acids in Aquatic Ecology: Theory & Practice
Universidad de Antofagasta – Antofagasta, Chile

2016 (November 21-25th)

V International Symposium of Peruvian Marine Sciences (CONCIMAR)

Universidad Pedro Ruiz Gallo – Lambayeque, Peru

Poster: *“Diet composition and overlap of five commercial marine species of Chwaka Bay, Zanzibar, Tanzania”*. A. Del Solar, Jennifer Rehren, Matthias Wolff

Co-author of presentation: *“Captures of mobulids and devil rays by the small-scale gillnet fishery in northern Peru”* – Presented by first author, Eliana Alfaro Córdova.

Co-author of presentation: *“Application of WWF’s benchmarking traceability tool and design of an essential information collect system for mahi mahi traceability”*.

2016 (November 8-10th)

International mahi-mahi FIP Workshop: “Market engagement in transitioning fisheries and improving traceability”

Novotel Hotel – Lima, Peru

Presentation of the design of a pilot system and roundtable on mahi-mahi traceability, WWF.US.

2015 (November 12th)

Cycle of presentations and roundtable: “Scientific research in the Fisheries Faculty: Current experiences of under- and post-graduates”

Universidad Nacional Agraria La Molina (UNALM) – Lima, Peru

Speaker: *“Differences and similarities between artisanal fisheries in Tanzania and Peru: Local and global challenges”*.

2015 (October 26-31st)

9th Western Indian Ocean Marine Scientific Association (WIOMSA) Symposium

Wild Coast Sun Hotel – Port Edward, South Africa

Poster: *“Diet composition and overlap of five commercial marine species of Chwaka Bay, Zanzibar, Tanzania”*. Presented by second author, Jennifer Rehren

2014 (December 3-5th)

Workshop: “Fisheries Management of Octopus in the Western Indian Ocean”

Grand Palace Hotel – Zanzibar, Tanzania

Organized by the NGO ‘Blue Ventures’ and WIOMSA.

2013 (June 19th)

I Cycle of Lectures on Scientific Research of the Fisheries Faculty

Universidad Nacional Agraria La Molina (UNALM) – Lima, Peru

Speaker: *Movement and dispersal of scallops under three forms of sowing in Sechura, Piura, Peru.*

Speaker: *Biomass and economic yield estimation of scallop *A. purpuratus* in relation to the harvest shell length and sowing density in Sechura Bay, Piura, Peru.*

2012 (June 25-29th)

III International Symposium of Peruvian Marine Sciences (CONCIMAR)

Universidad Científica del Sur – Lima, Peru

Oral presentation: *Movement and dispersal of *Argopecten purpuratus* under three forms of sowing in Bahía de Sechura, Piura.* A. Del Solar, J. Mendo.

2011 (September 7-14th)

Summer School: “Marine Ecosystem Evolution in a Changing Environment (MEECE)”

Middle East Technical University (METU) – Ankara, Turkey.

2010 (July 22-23rd)

Course: Fundamentals in Management and Restocking of Benthic Ecosystems

Dr. Wolfgang Stotz (Chile) at Universidad Nacional Agraria La Molina (UNALM) – Lima, Peru

PUBLICATIONS

Peer-reviewed journal articles

Alfaro-Cordova, E., Del Solar, A., Alfaro-Shigueto, J., Mangel, J. C., Diaz, B., Carrillo, O., & Sarmiento, D. (2017). Captures of manta and devil rays by small-scale gillnet fisheries in northern Peru. *Fisheries Research*, 195(November 2016), 28–36.

<https://doi.org/10.1016/j.fishres.2017.06.012>

Alfaro-Cordova, E., Del Solar, A., Gonzalez-Pestana, A., Acuña-Perales, N., Coasaca, J., Cordova-Zavaleta, F., Alfaro-Shigueto, J., & Mangel, J. C. (2018). Isotopic niches of four commercially important pelagic elasmobranch species captured by the small-scale driftnet fishery of northern Peru. *Latin American Journal of Aquatic Research*, 46(2), 482–488.

<https://doi.org/10.3856/vol46-issue2-fulltext-24>

Del Solar, A., Alfaro-Cordova, E., Mendo, T., Ortega-Cisneros, K., Arias Schreiber, M., Grillo-Núñez, J., & Alfaro-Shigueto, J. (2023). Peru Case Study: Big Challenges for Small Islands: Management and Governance of “Lobos de Afuera” Islands in the Peruvian Upwelling Ecosystem. In *Challenges in Tropical Coastal Zone Management: Experiences and Lessons Learned* (pp. 303–322). Springer International Publishing. https://doi.org/10.1007/978-3-031-17879-5_17

Del Solar, A., Romagnoni, G., Kluger, L. C., Céspedes, C. M. S., & Wolff, M. (2022). Comparative Food Web Analysis of Two Peruvian Bay Systems Along a Latitudinal Gradient: Resource Use and the Environmental Envelope. *Frontiers in Marine Science*, 9.

<https://doi.org/10.3389/fmars.2022.829424>

Del Solar, A., Romagnoni, G., & Wolff, M. (2024). The masked influence of remote ENSO-related drivers on the trophic dynamics of Independencia Bay, Peru: Insights for management from time-series analysis and food-web modelling. *Ocean & Coastal Management*, 251, 107047.

<https://doi.org/10.1016/j.ocecoaman.2024.107047>

Navarrete-Forero, G., Del-Solar-Escardó, A., Alfaro-Cordova, E., Rodríguez-Escalante, L., Andrade-Vera, S., & Willette, D. A. (2023). Ecuador Case Study: Transboundary Marine Conservation and Fisheries Management in Ecuador and Northern Peru. In *Challenges in Tropical Coastal Zone Management: Experiences and Lessons Learned* (pp. 247–276). Springer International Publishing. https://doi.org/10.1007/978-3-031-17879-5_15

Other publications (non peer-reviewed)

- > J. Grillo, A. Del Solar, R. Gozzer and N. Rovegno. 2017. Pilot implementation of a catch documentation system. Ed.: WWF-Peru Marine Program, Lima, Peru. 65 pp. Published in the online repository ResearchGate.
- > A. Del Solar, J. Grillo, R. Gozzer and M. Correa. 2017. Traceability of the Peruvian mahi mahi fishery: Assessment and proposal. Ed.: WWF-Peru Marine Program, Lima, Peru. 171 pp. Published in the online repository ResearchGate.
- > J. Mendo, P. Gil-Kodaka, L. Ysla, M. Miglio, H. Orrego and A. Del Solar. 2011. Technical Manual for scallop restocking in the Sechuran Bay, Piura, Peru. *Part of government funded project: FINCyT N°01 – 2009*. Ed.: Jaime Mendo. 81 pp.

ADDITIONAL SKILLS

- | | |
|---|----------------------------|
| > Diving | Open Water: Level 2 – PADI |
| > Ecopath with Ecosim trophic modelling tool | Intermediate |
| > R Computer Language and Programming (database management, modelling, mapping, statistical analyses) | Intermediate |

LANGUAGES

- | | |
|-----------|---|
| > Spanish | Native tongue |
| > English | Advanced – TOEFL iBT. Grade: 103/120 (2011) |
| > German | Basic (A.2.1) – Göthe Institute, Bremen, Germany (October 2013) |