

# Carolina CHONG-MONTENEGRO

## PERSONAL DATA

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RESEARCHGATE: [Carolina Chong-Montenegro](#)  
ORCID: [0000-0002-2629-4954](#)

## EDUCATION

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- 2023 Doctor of Philosophy, **The University of Queensland**, Australia  
Thesis: Historical approaches to recreational fisheries ecology  
ADVISOR: DR. JOHN PANDOLFI AND DR. RUTH THURSTAN
- 2016 M.Sc. Aquatic Tropical Ecology, **Bremen Universität**, Germany  
Thesis: Biological and fisheries characteristics of the Pacific Goliath Grouper  
ADVISOR: DR. WERNER EKAU AND DR. GUSTAVO CASTELLANOS GALINDO
- 2014 B.Sc. Marine Biology, **Escuela Superior Politécnica del Litoral**, Ecuador  
Thesis: Reproductive assessment of *Paralabrax albomaculatus* in the Galapagos Islands  
ADVISOR: DR. PELAYO SALINAS DE LEÓN AND M.SC. ECUADOR MARCILLO

## PEER-REVIEWED PUBLICATIONS

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**Chong-Montenegro, C.**, Tompkins, P., Butler, C., Ling, S., Pandolfi, J. M., Ludlow F. Charting century-scale decline of Tasmanian giant kelp forests. **In review:** *Global Ecology and Conservation*.

**Chong-Montenegro, C.**, Castellano-Galindo, G., Robertson, D.R. Local ecological knowledge as a conservation tool for identifying threats to the Pacific Goliath Grouper (*Epinephelus quinquefasciatus*) in Panama. **In review:** *Aquatic Conservation: Marine and Freshwater Ecosystems*.

**Chong-Montenegro, C.**, Thurstan, R. H., Pandolfi, J. M. (2024). Diving into archival data: the hidden decline of the giant grouper (*Epinephelus lanceolatus*) in Queensland, Australia. *Aquatic Conservation: Marine and Freshwater Ecosystems*. DOI: <https://doi.org/10.1002/aqc.4094>.

**Chong-Montenegro, C.**, Thurstan, R. H., Pandolfi, J. M. (2022). Quantifying the historical development of recreational fisheries in Southeast Queensland, Australia. *Marine Ecology Progress Series*. DOI: <https://doi.org/10.3354/meps14138>.

Roberts, K. E., Stepanuk, J. E. F., Kim, H., Thorne, L. H., **Chong-Montenegro, C.**, and Nye, J.A. (2023). Developing a subseasonal ecological forecast to reduce fisheries bycatch in the Northeast U.S. *Progress in Oceanography*. DOI: [10.1016/j.pocean.2023.103021](https://doi.org/10.1016/j.pocean.2023.103021).

**Chong-Montenegro, C.**, Kindsvater, H.K. (2022). Demographic consequences of small-scale fisheries for two sex-changing groupers of the Tropical Eastern Pacific. *Frontiers in Ecology and Evolution*. DOI:<https://doi.org/10.3389/fevo.2022.850006>.

**Chong-Montenegro, C.**, Thurstan, R. H., Campbell, A. B., Cunningham, E. T., Pandolfi, J. M. (2021). Historical reconstruction and social context of recreational fisheries: the Australian East Coast Barramundi (*Lates calcarifer*). *Fisheries Management and Ecology*, 00, 1-13. DOI: <https://doi.org/10.1111/fme.12519>.

Aswani, S., Ferse, S. C., Stäbler, M., **Chong-Montenegro, C.** (2020). Detecting change in local ecological knowledge: An application of an index of taxonomic distinctness to an ethnoichthyological classification in the Solomon Islands. *Ecological Indicators*, 119, 106865. DOI: <https://doi.org/10.1016/j.ecolind.2020.106865>.

Castellanos-Galindo, G. A., Robertson, D. R., Pacheco-Chaves, B., Angulo, A., **Chong-Montenegro, C.** (2019). Atlantic Tarpon in the Tropical Eastern Pacific 80 years after it first crossed the Panama Canal. *Reviews in Fish Biology and Fisheries*, 29(2), 401-416. DOI: <https://doi.org/10.1007/s11160-019-09565-z>.

Castellanos-Galindo, G. A., **Chong-Montenegro, C.**, Baos E, R. A., Zapata, L. A., Tompkins, P., Graham, R. T., Craig, M. (2018). Using landing statistics and fishers' traditional ecological knowledge to assess conservation threats to Pacific goliath grouper in Colombia. *Aquatic Conservation: Marine and Freshwater Ecosystems*, 28(2), 305-314. DOI: <https://doi.org/10.1002/aqc.2871>.

Salinas-de-Leon, P., Bertolotti, A., **Chong-Montenegro, C.**, Gomes-Do-Rego, M., Preziosi, R. F. (2017). Reproductive biology of the Endangered white spotted sand bass *Paralabrax albomaculatus* endemic to the Galapagos Islands. *Endangered Species Research*, 34, 301-309. DOI: <https://doi.org/10.3354/esr00858>.

Baos, R., Castellanos-Galindo, G. A., **Chong-Montenegro, C.**, Tompkins, P., Zapata, L. A. (2016). Length-weight relationship of the Pacific goliath grouper, *Epinephelus quinquefasciatus* (Bocourt, 1868). *Journal of Applied Ichthyology*, 32(4), 727-728. DOI: <https://doi.org/10.1111/jai.13101>.

## BOOK CHAPTERS

Thurstan, R., **Chong-Montenegro, C.**, Clark, A., & Christensen, J. (in press). Environmental history and historical ecology for understanding recreational fishers and fisheries. In K. L. Pope, R. Arlinghaus, L. M. Hunt, A. J. Lynch, & B. T. van Poorten (Eds.), *Recreational fishers: Disciplinary and interdisciplinary approaches for fisheries management*.

## PROFESSIONAL EXPERIENCE

APRIL 2023 - CURRENT	Trinity College Dublin, Ireland <i>Postdoctoral research fellow</i> Historical reconstruction of Tasmania fish and fisheries since late 19th century to evaluate changes in catch rates and its effect on wild fish populations. Supervisor: Dr. Francis Ludlow
JUNE 2018 - MARCH 2019	Stony Brook, School of Marine and Atmosphere Science (SoMAS), USA <i>Research Assistant</i> Developed occurrence and co-occurrence models for two commercially relevant fish species (herring and mackerel) in the Northeast Atlantic to reduce the probability of by-catch of non-targeted species in a commercial bottom trawl fishery. Supervisor: Dr. Janet Nye.
MARCH 2018 - MAY 2018	Smithsonian Tropical Research Institute (STRI), Panama <i>Research Fellow</i>

	Interviewed stakeholders to document local ecological knowledge (LEK) of the Pacific Goliath Grouper, a data deficient species. Supervisor: Dr. Ross Robertson and Dr. Richard Cooke.
DEC 2016 - MARCH 2017	<p>Leibniz Centre for Tropical Marine Research (ZMT), Germany <i>Research Assistant</i></p> <p>Analysed benthic community data to estimate abundance and diversity of corals in Beqa Island, Fiji. Supervisor: Dr. Sebastian Ferse.</p>
SEPT 2016	<p>Thunen Institute of Baltic Sea Fisheries, Germany <i>Research Assistant</i></p> <p>Provided scientific assistance on board R/V SOLEA (17 days), in particular sorting fish species, and analyzing trawling data in order to reduce bycatch for nephrops fisheries in the North Sea. This trip was performed in cooperation with the IMARES (The Netherlands).</p>
JUN 2016 - AUG 2016	<p>Thunen Institute of Baltic Sea Fisheries, Germany <i>Guest Scientist</i></p> <p>Prepared and analysed biological samples (otoliths, fin rays and fin spines) for age and growth analysis and stock assessment of the Pacific Goliath Grouper (<i>Epinephelus quinquefasciatus</i>). Task included: sectioning, embedding, and imaging of fish samples.</p>
SEPT 2015 - APR 2016	<p>Intern at WWF WORLD WILDLIFE FUND, Colombia</p> <p>Development of M.Sc. thesis project on the Pacific coast of Colombia, titled: 'Non-lethal age determination for the Pacific Goliath Grouper (<i>Epinephelus quinquefasciatus</i>) and fishery characteristics on the Pacific Coast of Colombia'. Responsibilities: Fish market surveys, mangrove visual census surveys, fishers interviews, measuring and weighing fish, collecting biological samples, and stock assessment analysis. Supervisor: Dr. Gustavo Castellanos-Galindo.</p>
NOV 2014- MAY 2015	<p>Leibniz Center for Tropical Marine Ecology (ZMT), Germany <i>Research Assistant</i></p> <p>Analysed taxonomic distinctness index of fish biodiversity based on interview data from folk groups of the Solomon Islands. Responsibilities included: translation, use of statistical tools such as Primer Software and R programming for data analysis. Supervisors: Dr. Sebastian Ferse and Dr. Shankar Aswani.</p>
SEPT 2013- MAY 2014	<p>Charles Darwin Foundation, Santa Cruz (Galapagos), Ecuador <i>Research Assistant</i></p> <p>Development of Bachelor's thesis project. Task included: analysis of gonadal development of an endemic fish species (<i>Paralabrax albomaculatus</i>). Specific duties: sample collection in fish market, preparation for histology (gonads), and statistical analysis catch data.</p>

## TEACHING EXPERIENCE

Tutor of undergraduate courses, School of Biological Sciences, the University of Queensland.  
**Tasks included:** preparation of course and teaching material, assisting in the development of assignments and exams, marking both written and oral presentation, leading field trip expeditions (Heron Island Research Station).

- 2022 [BIOL3215] Coral Reef Ecology and Conservation  
 [MARS1001] Living Oceans  
 [ENVM2003] Aquatic Environments
- 2021 [BIOL2006/2016] Biostatistics and Experimental Design  
 [MARS1001] Living Oceans  
 [BIOL3215] Marine Ecology and Conservation
- 2020 [BIOL3340] Fish, Fisheries and Aquaculture  
 [BIOL3215] Marine Ecology and Conservation

## SCHOLARSHIPS AND RESEARCH GRANTS

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- MAY 2024 Short-Term Fellowship Smithsonian Tropical Research Institute
- MAY 2020 PADI Foundation research grant
- MARCH 2018 Short-Term Fellowship Smithsonian Tropical Research Institute
- AUGUST 2017 [National Geographic Leadership and Development Program](#)
- JANUARY 2016 [WWF Prince Bernhard Scholarship for Nature Conservation 2016](#)
- OCTOBER 2015 [National Geographic Society Europe: Conservation grant GEFNEY 152-15](#)
- SEPT 2015 [Rufford Small Grant for Conservation](#)
- JULY 2015 DAAD Promos Scholarship for graduate students to go abroad for Research

## CONFERENCE AND SYMPOSIUM PRESENTATIONS

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- Sept 2024 AMSA and NZMSS Conference, University of Tasmania, Hobart  
**Chair and presenter for the following session:** Past Lessons, Future Solutions: Harnessing Historical Perspectives for Sustainable Oceans
- August 2024 International Geographical Congress, Dublin City University, Dublin  
**Oral presentation:** Quantifying historical changes in kelp Forests: Insights from 19th-century admiralty charts in Tasmania
- June 2022 Oceans Past Conference at The University of Washington, USA  
**Oral presentation:** Quantifying the historical development of recreational fisheries in Southeast Queensland
- July 2020 Coral Reef Virtual Symposium 2020 Online, Australia  
**Oral presentation:** A century of fisheries narratives of *Lates calcarifer*
- December 2019 Applied marine environmental history workshop Murdoch University, WA  
**Oral presentation:** Historical fisheries ecology in Queensland
- April 2019 QUEX Symposium at The University of Queensland, QLD  
**Oral presentation:** Historical fisheries ecology in Queensland

## WORKSHOPS AND COURSES

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- Sept 2024    Detecting, describing and disentangling pre-industrial climate and human impacts on marine ecosystems. Plakias, Crete [Online]
- June 2021    Advanced R Workshop - The University of Queensland
- July 2020    Two week R statistics course - ARC Centre of Excellence for Coral Reef Studies  
Intermediate R Workshop - The University of Queensland  
Advanced data wrangling for spatial analysis R Workshop - The University of Queensland

## SOCIETY AND MEMBERSHIPS

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- 2022 - present    [Oceans Past Initiative \(Governing board member\)](#)
- 2022 - present    [Centre for Marine Socioecology](#)
- 2019 - 2022    ARC Centre of Excellence for Coral Reef Studies
- 2022    International Coral Reef Society
- 2019    Royal Zoological Society of NSW

## SERVICE TO PROFESSION AND COMMUNITY

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### Reviewer for scientific journals

- Fish and Fisheries
- Local Environment
- Marine Policy
- Aquatic Conservation: Marine and Freshwater Ecosystems

### Outreach

- 2021    Speaker at the 'Inspiring Women' Event promoting research and careers for women in science, Matthew Flinders College. Sunshine Coast, Queensland.