

# Curriculum Vitae

**OSCAR PUEBLA**

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## CONTACT

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## APPOINTMENTS

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| 2014 – present | <b>Junior Professor</b><br>GEOMAR Helmholtz Centre for Ocean Research Kiel (Germany)<br>University of Kiel (Germany) |
| 2015 – present | <b>Research Associate</b><br>Smithsonian Tropical Research Institute (Panama)  |
| 2012 – 2014    | <b>Associate Scientist</b><br>Smithsonian Tropical Research Institute  |
| 2009 – 2012    | <b>Postdoctoral Fellow</b><br>Smithsonian Tropical Research Institute  |

## EDUCATION

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|-------------|---|
| 2003 – 2009 | <b>PhD in Biology</b> (Neotropical Environment Option)<br>McGill University (Montreal, Canada)<br>Thesis: Molecular ecology and evolution in <i>Hypoplectrus</i> coral reef fishes<br>Advisors: F. Guichard, E. Bermingham  |
| 2000 – 2003 | <b>MSc in Oceanography, with distinction</b><br>University of Quebec in Rimouski (Canada)<br>Maurice Lamontagne Institute (Department of Fisheries and Oceans Canada)<br>Thesis: Population genetic structure of the snow crab ( <i>Chionoecetes opilio</i> )<br>Advisors: J.M. Sévigny, J.C. Brêthes |
| 1996 – 2000 | <b>BSc in Biology</b><br>University of Lausanne (Switzerland)<br>Specialization in Population Biology, Zoology, and Marine Biology  |

## LANGUAGES

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|----------------|--|
| <b>French</b>  | First language, fluent written and spoken  |
| <b>Spanish</b> | Second language, fluent written and spoken |
| <b>English</b> | Third language, fluent written and spoken  |
| <b>German</b>  | Basic knowledge                            |

SELECTED CAREER-RELATED EXPERIENCE
 

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- 2014 – present      **Associate Editor** for *Marine Biology* (26 assignments with final disposition)
- 2008 – present      **Reviewer** for publications (59x), research proposals (~150x) and theses (14x)  
*PNAS, Nature Ecol. Evol., Trends Ecol. Evol., Proc. Roy. Soc. B, Mol. Ecol. (14x), Evolution, Am. Nat., BMC genomics, BMC Evol. Biol., Heredity, Bioinformatics, Mol. Ecol. Resour., Coral Reefs, MEPS, Mar. Biol., J. Mar. Biol., J. Fish Biol., Env. Biol. Fishes, J. Oc. Sci. Found., Behav. Ecol., Ecol. Appl., Oecologia, J. Anim. Ecol., Diversity, Syst. Biodiv., Glob. Ecol. Biogeo., J. Biogeo., R. Soc. Open Sci., Sci. Rep., PeerJ, PLoS ONE, NSF, Smithsonian Institution, Austrian Science Fund, German Israeli Foundation for Research and Development, ΣΔΕ Graduate Women in Science, James Cook U., U. of Kiel, U. de Montpellier, U. Grenoble Alpes, U. de Los Andes.*
- 2016 – present      **Teacher for *Biology and Ecology of Fishes***, a two-weeks intensive field course for the Three Seas Program (Northeastern University) based in Bocas del Toro (Panama).
- 2013 – 2016          **Coordinator (2013-2014) and teacher (2013-2016) for *Integrative Tropical Biology***, a three-week IGERT field course for graduate students from the University of Illinois at Urbana-Champaign, Arizona State University and McGill University (STRI, Panama).
- 2011                  **Panelist for NSF, Division of Environmental Biology** (Arlington, VA)
- 2010, 2011, 2012    **Invited lecturer in population genetics** for undergraduate and graduate students, including lectures and computer laboratories (University of Panama).
- 2003 – 2008        **Teaching assistant** for *Ecology* (2003), *Ecological Dynamics* (2004, 2005, 2006), *Introduction to Ecology and Evolution* (2007), *Basic Genetics* (2008), *Research in Panama* (2005), *Social Change in Panama* (2007) (McGill University, Montreal).
- 2005, 2006, 2010   **Scientific leader and coordinator** of three vessel-based research expeditions along the Caribbean coasts of Panama (2005), Honduras (2006), and Belize (2010).

 SELECTED PUBLICATIONS
 

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 Sum of the times cited **394** (*Google Scholar*) **284** (*Web of Science*)

- Theodosiou L, McMillan WO, **Puebla O** (2016) Recombination in the eggs and sperm in a simultaneously hermaphroditic vertebrate. *Proceedings of the Royal Society B* 283, 20161821.
- Picq S, McMillan WO, **Puebla O** (2016) Population genomics of local adaptation versus speciation in coral reef fishes (*Hypoplectrus* spp, Serranidae). *Ecology and Evolution* 6, 2109–2124.
- Puebla O**, Bermingham E, McMillan WO (2014) Genomic atolls of divergence in coral reef fishes (*Hypoplectrus* spp, Serranidae). *Molecular Ecology* 23, 5291–5303.
- Puebla O**, Bermingham E, McMillan WO (2012) On the spatial scale of dispersal in coral reef fishes. *Molecular Ecology* 21, 5675–5688. → *Perspective by KE Lottheros (2012) Mol. Ecol. 21, 5637–5639.*
- Puebla O**, Bermingham E, Guichard F (2012) Pairing dynamics and the origin of species. *Proceedings of the Royal Society B* 279, 1085–1092.
- Puebla O**, Bermingham E, Guichard F (2011) Perspective: matching, mate choice, and speciation. *Integrative and Comparative Biology*. 51, 485–491.
- Puebla O**, Bermingham E, Guichard F (2009) Estimating dispersal from genetic isolation by distance in a coral reef fish (*Hypoplectrus puella*). *Ecology* 90, 3087–3098.
- Puebla O** (2009) Ecological speciation in marine v. freshwater fishes. *J. Fish Biol.* 75, 960–996.
- Puebla O**, Bermingham E, Guichard F (2008) Population genetic analyses of *Hypoplectrus* coral reef fishes provide evidence that local processes are operating during the early stages of marine adaptive radiations. *Mol. Ecol.* 17, 1405–1415. → *Perspective by W Salzburger (2008) Mol. Ecol. 17, 1397–1400.*
- Puebla O**, Bermingham E, Guichard F, Whiteman E (2007) Colour pattern as a single trait driving speciation in *Hypoplectrus* coral reef fishes? *Proceedings of the Royal Society B* 274, 1265–1271.

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**SELECTED GRANTS AND AWARDS**


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|             |   |                                    |             |
|-------------|---|------------------------------------|-------------|
| 2017        | BiodivERsA (co-PI)                          | EU through DLR/BMBF                | 378,880 EUR |
| 2016        | The Future Ocean cluster grant (PI)         | The Future Ocean                   | 60,701 EUR  |
| 2016        | SIBG – GGI grant (co-PI*)                   | Smithsonian Institution            | 49,555 USD  |
| 2016        | DNSZ Seed Money (PI)                        | German-Norwegian Study Centre      | 3,475 EUR   |
| 2016        | Technology Seed Funding (PI)                | GEOMAR                             | 8,000 EUR   |
| 2015        | Research Grant (PI)                         | DFG                                | 221,400 EUR |
| 2015        | The Future Ocean cluster grant (PI)         | The Future Ocean                   | 73,947 EUR  |
| 2013        | Competitive Grants Program for Science (PI) | Smithsonian Institution            | 78,347 USD  |
| 2012        | Scholarly Studies Program (co-PI*)          | Smithsonian Institution            | 67,928 USD  |
| 2011        | Next Generation Sequencing Grant (co-PI*)   | Smithsonian Institution            | 7,500 USD   |
| 2010        | Research and Exploration grant (PI)         | National Geographic Society        | 17,500 USD  |
| 2009        | Postdoctoral Fellowship                     | Marine Science Network             | 100,000 USD |
| 2003 – 2007 | Levinson Fellowship                         | McGill University - STRI           | 15,300 USD  |
| 2003, 2004  | McGill Graduate Studies Fellowship          | McGill University                  | 10,000 CAD  |
| 2000        | Paul Blanc Grant                            | <i>Soci t  Acad mique Vaudoise</i> | 15,000 CHF  |

\* Principal writer (not eligible to be PI on these grants)

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**SELECTED PRESENTATIONS**


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Hench K, McMillan WO, **Puebla O** (2017) Genomic Islands in the Caribbean Sea. *Gordon Speciation Conference*, Lucca, Italy.

Hench K, Picq S, Theodosiou L, McMillan WO, **Puebla O** (2016) Speciation and local adaptation in coral reef fishes (*Hypoplectrus* spp). Contributed talk at the *FSBI Annual Symposium*, Bangor, UK.

**Puebla O**, Picq S, McMillan WO (2015) Genomic architecture of local adaptation versus speciation in coral reef fishes. Contributed talk at the *19th Evolutionary Biology Meeting*, Marseilles, France.

**Puebla O**, Picq S, McMillan WO, Bermingham E (2015) Mutual mate choice and speciation. Lightning talk and poster at the *Gordon Speciation Conference*, Ventura, CA. → *Poster Award!*

**Puebla O**, McMillan WO, Bermingham E (2014) Genomic atolls of divergence in *Hypoplectrus* coral reef fishes. Contributed talk at the *Evolution Joint Meeting*, Raleigh, NC.

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**SELECTED STUDENTS ADVISED**


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|------------------------|---------------------------|--------------------------|----------------|
| <b>Katharina Fietz</b> | Postdoc (main advisor)    | GEOMAR                   | Present        |
| <b>Derya Akkaynak</b>  | Postdoc (main advisor)    | GEOMAR                   | 2017           |
| <b>Jorge Pe a</b>      | Postdoc (main advisor)    | GEOMAR                   | 2016 – 2017    |
| <b>Sophie Picq</b>     | PhD (main advisor)        | GEOMAR / Kiel University | 2014 – present |
| <b>Kosmas Hench</b>    | MSc/PhD (main advisor)    | GEOMAR / Kiel University | 2015 – present |
| <b>Benjamin Moran</b>  | Internship (main advisor) | Northeastern University  | Present        |

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**EXPEDITIONS**


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Scientific dives logged **685**

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| 2004 – 2006, 2009, 2010, 2013, 2016, 2017 | Bocas del Toro Research Station, <b>Panama</b>                           |
| 2004, 2005, 2009, 2010, 2017              | Carrie Bow Cay Field Station, <b>Belize</b>                              |
| 2017                                      | Keys Marine Laboratory, <b>Florida</b>                                   |
| 2017                                      | Magueyes Island Marine Laboratories, <b>Puerto Rico</b>                  |
| 2010                                      | Research cruise on S/V <i>Legacy</i> (Chief Scientist), <b>Belize</b>    |
| 2006                                      | Research cruise on R/V <i>Urraca</i> (Chief Scientist), <b>Honduras</b>  |
| 2005                                      | Research cruise on R/V <i>Urraca</i> (Chief Scientist), <b>Guna Yala</b> |
| 2005                                      | Bellairs Research Institute, <b>Barbados</b>                             |