

# Erwan Delrieu-Trottin, PhD.

Maitre de Conférences Ecole Pratique des Hautes Etudes - PSL, Centre d'Ecologie Fonctionnelle et Evolutive (CEFE), Montpellier

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ORCID; ResearchGate; Google Scholar.

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## PROFESSIONAL POSITIONS

- oct 2021 – Current** Maitre de Conférences (Associate Professor), Centre d'Ecologie Fonctionnelle et Evolutive (CEFE), Ecole Pratique des Hautes Etudes (EPHE - PSL).
- jan. 2021** Postdoctoral Researcher, Institut de Recherche pour le Développement (ISEM, France)  
Project: *Uncovering the effect of past introgression and recent hybridization in the genomic architecture of Oreochromis niloticus*  
Sponsor: Jean-Francois Agnese.
- 2018 – 2020** Postdoctoral Researcher, Institut des Sciences de l'Évolution de Montpellier (ISEM, France) & Museum Für Naturkunde (Berlin, Germany)  
Project: *Phylogenomic of Indonesian freshwater fish communities.*  
Sponsors: Nicolas Hubert & Thomas von Rintelen.
- 2016 – 2018** Postdoctoral Researcher, Instituto de Ciencias Ambientales y Evolutivas, Universidad Austral de Chile (Valdivia, Chile)  
Project: *Understanding the origin of the most isolated endemic reef fish fauna of the Indo-Pacific: coral reef fishes of Rapa Nui.*  
Sponsor: Pablo Saenz-Agudelo.
- 2015** Postdoctoral Researcher, LabEx CORAIL & EPHE - Ecole Pratique des Hautes Etudes (Paris, France)  
Project: *Retracing colonization roads of coral reef ichthyofauna endemic to two centers of endemism, French Polynesia and Mascarene Islands.*  
Sponsor: Stefano Mona.
- 2013 – 2014** Postdoctoral Researcher, CRIOBE - Centre de Recherche Insulaire et Observatoire de l'Environnement (Perpignan, France) & Smithsonian Museum (Washington, USA)  
Project: *Using integrative taxonomy to describe new coral reef fish species.*  
Sponsors: Serge Planes & Jeffrey T. Williams.

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## EDUCATION

- 2013** PhD in Environmental Sciences, University Pierre et Marie Curie, (Paris, France) & CRIOBE - Centre de Recherche Insulaire et Observatoire de l'Environnement (Perpignan, France), *Dissertation: [Origin and dynamic of endemism in coral reef fishes of French Polynesia](#)*, Advisor: Serge Planes.
- 2009** Master degree in Oceanography and Marine Environments. University Pierre et Marie Curie (Paris, France).
- 2007** Bachelor degree in Biology of Organisms and Populations. University of Saint Denis de la Réunion (Reunion Island, France).

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## GRANTS AND FELLOWSHIP

- 2023 – 2026** Appel à Manifestation d'Intérêt de l'Office Français de la Biodiversité (OFB) pour des projets de Recherche-Action sur les Espèces Exotiques Envahissantes (EEE) "Utilisation de l'ADN environnemental pour la détection précoce et le suivi d'espèces exotiques envahissantes aquatiques à La Réunion et Mayotte" with A. Dalongeville, Pierre Valade, Sébastien Jaquemet, Stéphanie Manel, Karine Pothin (212 k€).

- 2022 – 2023** Fondation BIOTOPE "Taxonomie intégrative et identification de terrain du complexe d'espèces du gobie méditerranéen *Pomatoschistus marmoratus*" with J. Renoult (**3 k€**).
- 2021 – 2023** DREAL Occitanie. "Développement d'un outil de suivi des populations de crabe bleu *Callinectes sapidus* en mer Méditerranée (Occitanie) basée sur l'ADN environnemental" with S. Manel, C. Miaud, R. Hocdé (**90 k€**).
- 2018 – 2020** Fondo de Investigación Centro de Humedales del río Cruces (CEHUM). "Surveys of aquatic biodiversity in the Rio Cruces Ramsar Sanctuary through environmental DNA" with P. Saenz-Agudelo, M. Soto, A. Silva, C. Correa, E. Delrieu-Trottin, W. Johnson and J. DiBattista (**\$US 125k**).
- 2018 – 2022** Qualification to apply for the positions of "Maitre de Conference" & "Maitre de conférences du Muséum National d'Histoire Naturelle" Section CNU 67 (Assistant professor position, France).
- 2016 – 2018** Postdoctoral Fellowship, Fondo Nacional de Desarrollo Científico y Tecnológico (FONDECYT), Chile **76,844,000 CLP\$ (\$US 117,300)**.
- 2015** Museum d'Histoire Naturelle call, France **1,2 k€**.
- 2015** Postdoctoral Fellowship, LabEx CORAIL, France **26,5 k€**.
- 2014** Travel Grant from the Schultz fund, Washington, USA **\$US 2,500**.
- 2009 – 2012** Ph.D. Fellowship, French Ministry of Education and Research, France.

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## SCIENTIFIC PRESENTATIONS

- 2024** Evolutionary and geographic rarity in fish: contributions of genomic approaches for their conservation. NMH Oslo. Invited speaker.
- 2020** LIII Reunion Anual Sociedad de Genetica de Chile. Invited speaker.
- 2019** University of Makassar, Sulawesi, Indonesia. Invited speaker.
- 2019** 8th International Barcode of Life Conference (IBOL) – Trondheim, Norway. \*Presented by Arni Sholihah.
- 2019** International Biogeography Society – Malaga, Spain. \*Presented by A. Sholihah.
- 2018** Congreso Ciencias del Mar, Valdivia, Chile. \*Presentation by V. Neglia.
- 2017** Indo-Pacific Fish Conference 10, Papeete, French Polynesia.
- 2017** Indo-Pacific Fish Conference 10, Papeete, French Polynesia. \*Presented by T Trnski.
- 2016** Universidad Austral de Chile.
- 2015** LabEx meeting (september 2015), Paris, France.
- 2012** 12th International Coral Reef Symposium (ICRS 2012), Cairns, Australia.
- 2012** Ve Rencontres de l'Ichtyologie, Paris, France.
- 2010** Third International Barcode of Life conference, Mexico. \*Presented by N. Hubert.
- 2009** ASLO meeting, Nice, France. \* Presentated by Virginie Raybaud.
- 2009** Symposium GLOBEC France, Paris, France. \* Presentated by Paul Nival.

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## COMMUNITY SERVICES

**Reviewer** for 60 articles / 32 journals: *Ecology and Evolution* (9), *Plos One* (5), *Hydrobiologia* (4), *Environmental DNA* (2), *Journal of Oceanology and Limnology* (2), *Journal of Zoological Systematics and Evolutionary Research* (2), *Marine Environmental Research* (2), *Molecular Phylogenetics and Evolution* (2), *Science of the Total Environment* (2), *Thalassas: An International Journal of Marine Sciences* (2), *Biodiversity and Conservation* (1), *Biological Journal of the Linnean Society* (1), *Ecological Indicators* (1) *Environmental Biology of Fishes* (1), *Heredity* (2), *Integrative Zoology* (1), *Journal of Fish Biology* (1), *Latin American Journal of Aquatic Research* (1), *Marine Biodiversity Records* (1), *Marine Biology* (1), *Molecular Ecology* (1), *Marine Ecology Progress Series* (1), *Molecular Ecology Resources* (1), *New Zealand Journal of Marine and Freshwater Research* (1), *PeerJ* (1), *Proceedings of the Biological Society of Washington* (1), *Smithsonian - Atoll Research Bulletin* (1), *Zoological Research* (1), *Zoosystematics and Evolution* (1), *Zootaxa* (1); details can be found on [PUBLONS](#).

**Evaluator for funding agencies.** Chile: Chilean National Fund for Scientific and Technological Development (FONDECYT) (3 projects), France: France Filiere Pêche (8 projects), Postdoc – Appel à projet Bienvenüe (1 projet), Bourse CIFRE (1 Projet).

**Comitees.** Part of CEFE's digital comity; and belong to the scientific comity of the [degraded DNA platform](#).

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## FIELDWORK

- July. 2019** Sulawesi (Indonesia) - Sampling freshwater fish species. 3 weeks.
- Apr. 2018** Rapa Nui (Easter Island, Chile) - Sampling reef fish species. 10 days SCUBA diving.
- Oct. 2016** Rapa Nui (Easter Island, Chile) - Sampling endemic reef fish species. 3 weeks SCUBA diving & snorkeling.
- Jan. 2016** Chilean coast - Sampling *Pyura chilensis* along part of the coast (2,000 km). 2 weeks snorkeling.
- Apr. 2013** Australs Islands (French Polynesia) - Sampling the ichthyofauna aboard the [Golden Shadow](#). 3 weeks SCUBA diving.
- Nov. 2011** Marquesas Islands (French Polynesia) - Pakaihi I Te Moana Expedition. Sampling the ichthyofauna aboard the Bravehart. 3 weeks SCUBA diving.
- Oct. 2010** Gambier Islands (French Polynesia) - Sampling the ichthyofauna aboard the Claymore II. 3 weeks SCUBA diving.

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## TEACHING EXPERIENCE AND MENTORING

Mainly in master degree [EPHE-PSL Sciences de Vivant](#) and Bachelor degree [Sustainability sciences](#).

- 2024** In silico analysis of genomes (9h) and Project set up (15h) for Master EPHE-PSL.
- 2023** Thematic School WAMBA (Ivory Coast) Barcoding, Species Delimitation, Molecular taxonomy and eDNA metabarcoding.
- since 2023** Ecology for Licence II SMD (6h), Biodiversity for Licence I (9h).
- 2022-2024** Pedagogic tutor for PSL-EPHE Master students Kiki Yunianti and for Pablo Tris.
- since 2021** Stats1 for Master I PPI (18h), Molecular Markers to Study Biodiversity for Master 1 students (9h), Population Biology for M1 (6h), Advanced Methods to Study Biodiversity (6h).
  - \* CAEV 352 Genética de Poblaciones y Cuantitativa (1h) Magister en Ciencias Mención Genética. Universidad Austral de Chile. Asistente trabajos prácticos.
  - \* CAEV 425 Ecología molecular (1h) Doctorado en Ciencias Mención Ecología y Evolución. Universidad Austral de Chile. Asistente trabajos prácticos.

- 2016 CAEV 425 Ecología (1h) Doctorado en Ciencias Mención Ecología y Evolución. Universidad Austral de Chile. Asistente trabajos prácticos.
- 2010 – 2012 Coral Reefs for Master degree students.
- 2012 Marine Ecology for Master degree students.
- 2012 Coral Reefs for high school students.

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## SUPERVISION OF STUDENT RESEARCH PROJECTS

- Licence** Juliette Campoy (2024).
- Master** Laura Brosseau-Acquaviva (2017), Selim Ben Chehida (M2, 2019), Mathieu Bianic (M1, 2023), Lisa Hidoine (2023), Marie Mandin (M1, 2024).
- PhD** Co direction of Arni Sholihah (2019-2020), Bastien Mace (2023-).

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## MEDIA COVERAGE

- EVOLUTIONARY HISTORY OF ENDEMIC SPECIES *Easter Island* Evolutionary history of Rapa Nui fishes in [biobiochile.cl](http://biobiochile.cl), 2020; [Ciencia en Chile](#), 2020.  
  
*Lord Howe, Norfolk and Kermadec Islands* Oceanic islands of the Southwest Pacific: Tracing the history of marine fish endemism [Blog of Journal of Biogeography journal](#), 2023.
- INVASIVE SPECIES *Calinectes sapidus*, the Blue Crab in the Mediterranean Sea in Pole Lagune [2022a](#); [2022b](#), ; Direction Régionale de l'Environnement, de l'Aménagement et du Logement (DREAL) Occitanie [2022](#), [2023](#).
- BIODIVERSITY INVENTORIES Indonesian freshwater fishes in [IRD](#), 2022; Marquesas Island Expedition (Pakaii I te Moana) Expedition in [National Geographic France](#), 2013; [Le Figaro](#) 2012; [Le Monde & portfolio](#) 2012; [RFI](#) 2011, [Tahiti-info](#) 2011.
- NEW SPECIES *Centropyge cocosensis* & *C. woodheadi* in [Reef Builders](#) 2016, [Reefs.com](#) 2016; [Reefs.com](#) 2017 on the controversy.  
*Macropharyngodon pakoko* in [Reef Builders](#) 2014; [Advanced Aquarists](#), [52reef.com](#), 2014.  
*Pseudanthias oumati* in [Reef Builders](#) 2013; [Fish Channel](#) 2013.  
*Canthigaster criobe* in [Reef Builders](#) 2012; [The Guardian](#) 2012, [Sci-News](#), 2012; [Brief Report](#), 2012.
- MARQUESAS ISLAND EXPEDITION Pakaii I te Moana Expedition in [National Geographic France](#), 2013; [Le Figaro](#) 2012; [Le Monde & portfolio](#) 2012; [RFI](#) 2011, [Tahiti-info](#) 2011.

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## OTHER ABILITIES

- Computer sciences Systems: Mac OSX, Linux, Softwares: R, RMarkdown,  $\LaTeX$ , Microsoft Office, LibreOffice, Adobe Photoshop and Illustrator, Gimp, Inkscape
- Languages French (Mother tongue), English (Fluent), Spanish (Fluent), Italian (Fluent)
- Diving CMAS \*\* Diver