

Dr. Salomé FABRI-RUIZ

6 rue Charles Peguy, 06000 Nice

salome.fabriruiz@gmail.com



+ 33 6-50-09-24-66

Age: 29



Education

- From October 2015 -December 2018:

PhD in co-supervision between University of Burgundy (Dijon) and the University of Brussels. Title: Distribution Models and Climate change: Application to echinoids faunas in the Southern Ocean and Ecoregionalization. Supervisors: Thomas Saucède and Bruno Danis

- 2012 to 2014:

Master of Oceanography and Marine Environment - Speciality Human impact and Conservation of marine environment. [Sorbonne Université](#) .

Responsibilities



- **PhD student representative** of the Biogéosciences Laboratory
- **Communication manager** of the French National Committee of Arctic and Antarctic Research (CNFRA).
- **Organizer** of the Early Career conference « Biogéo'fait sa science » - of Laboratoire Biogéosciences – UMR CNRS 6282

Field Missions:



- ACE Maritime University 2016
Atlantic ocean
- PROTEKER 2015
Kerguelen Islands
- MDCPR 2014
Crozet and Kerguelen Islands
- PELGAS 2013
Bay of Biscay

Software and programming:



R, Matlab, ArcGIS, QGIS, Word, Power point, Photoshop, Zotero

Languages:



- English: Fluent
- Spanish: Medium

Hobbies:



Diver Instructor and Professional Scientific Diver (CAH) , Ballet, Piano, Reading , Travelling

Teaching, Working experiences and Internships

- From 1st April 2020 - until Today:

Postdoc : Plastic accumulation model in the Mediterranean Sea from Tara data expedition. [Laboratory of Oceanography at Villefranche-sur-Mer, Sorbonne Université](#). Supervisors : Maria Luiza Pedrotti and Jean-Olivier Irisson

- From 1st April 2019 - January 2020:

Postdoc : Benthic harmful algal blooms niche modelling and climate projections [Laboratory of Oceanography at Villefranche-sur-Mer, Sorbonne Université](#). Supervisors : Rodolphe Lemée and Jean-Olivier Irisson

- From October 2015 -December 2018:

Assistant Lecturer, University of Burgundy (Dijon)

Biostatistics (Bachelor and Master), Paleontology (Bachelor) and Ecology (Bachelor)

- May to September 2015

Research assistant : CROMEBA project (Crozet Marine Ecosystem Based Approach). [National Natural History Museum \(Paris\) – UMR CNRS BOREA 7208](#). Supervisor: Philippe Koubbi

- November to April 2015

Research assistant Atlas Marine fish in France EEZ. [National Natural History Museum \(Paris\) – UMR CNRS BOREA 7208](#). Supervisors: Patrice Pruvost and Philippe Bearez

- January to June 2014

Second Master's Degree Internship, Biogeography of planktonic foraminifera in the Indian part of the Southern Ocean in co-supervision between [National Natural History Museum \(Paris\) – UMR CNRS BOREA 7208](#) and [Laboratoire d'Etudes des Bio-Indicateurs Actuelles et Fossiles \(Angers\) - UMR-CNRS 6112](#). Supervisors : Philippe Koubbi and Hélène Howa.

- April to May 2013

First Master's Degree Internship. Macro-plankton and micronekton acoustic characterization in the Gironde estuary. [Ifremer-Unité Ecologie et Modèle pour l'Halieutique \(Nantes\)](#). Supervisors : Matthieu Doray and Barbara Rémond.

Publications published

- **Fabri-Ruiz, S.**, Danis, B., Navarro, N., Koubbi, P., Laffont, R., & Saucède, T. (2020). Benthic Ecoregionalization based on echinoid fauna of the Southern Ocean supports current proposals of Antarctic Marine Protected Areas under IPCC scenarios of climate change. *Global Change Biology*, 26: 2161– 2180.
- Saucède, T., Guillaumot, C., Michel, L.N., **Fabri-Ruiz, S.**, Bazin, A., Cabessut, M., García-Berro, A., Mateos, A., Mathieu, O., De Ridder, C., Dubois, P., Danis, B., David, B., Díaz, A., Lepoint, G., Motreuil, S., Poulin, P. and Féral, J.P. 2019. Modeling species response to climate change in Sub-Antarctic islands. Echinoids as a case study for the Kerguelen Plateau. *CCAMLR Science*.
- **Fabri-Ruiz, S.**, Danis, B., Saucède, T. (2018) Can we generate robust Species Distribution Models at the scale of the Southern Ocean? *Diversity and Distribution*.
- Guillaumot, C., **Fabri-Ruiz, S.**, Martin, A., Eléaume, M., Danis, B., Féral, J.P., Saucède, T. 2018. Benthic species of the Kerguelen Plateau show contrasting distribution shifts in response to environmental changes. *Ecology and Evolution*.
- **Fabri-Ruiz, S.**, Saucède, T., Danis, B., David, B., 2017. Southern Ocean Echinoids database – An updated version of Antarctic, Sub-Antarctic and cold temperate echinoid database. *ZooKeys* 697, 1–20.
- Koubbi, P., Mignard, C., Causse, R., Da Silva, O., Baudena, A., Bost, C., Cotté, C., d’Ovidio, F., Della Penna, A., Delord, K., **Fabri-Ruiz, S.**, Ferrieux, M., Guinet, C., Lo Monaco, C., Saucède, T., Weimerskirch, H. 2016. Ecoregionalisation of the Kerguelen and Crozet islands oceanic zone. Part II: The Crozet oceanic zone. CCAMLR Report WG-EMM-16/54. 50 pp.
- Guillaumot, C., Martin, A., **Fabri-Ruiz, S.**, Eléaume, M., Saucède, T., 2016. Echinoids of the Kerguelen Plateau – occurrence data and environmental setting for past, present, and future species distribution modelling. *ZooKeys* 630, 1–17.
- Meilland, J., **Fabri-Ruiz, S.**, Koubbi, P., Monaco, C.L., Cotte, C., Hosie, G.W., Sanchez, S., Howa, H., 2016. Planktonic foraminiferal biogeography in the Indian sector of the Southern Ocean: Contribution from CPR data. *Deep Sea Research Part I: Oceanographic Research Papers* 110, 75–89.

Publications submitted

- **Fabri-Ruiz, S.**, Guillaumot, C., Agüera, A., Danis, B., Saucède, T., Using correlative and mechanistic niche models to assess the sensitivity of the Antarctic echinoid *Sterechinus neumayeri* (Meissner, 1900) to climate change. *Polar Biology* (Submitted).

- **Fabri-Ruiz, S.**, Navarro, N., Laffont, R., Danis, B., & Saucède, T. Diversity of Antarctic echinoids and ecoregions of the Southern Ocean. *Biology Bulletin* (Submitted)
- Godet, C., Robuchon, M., Leroy, B., Cotté, C., Baudena, A., Da Silva, O., **Fabri-Ruiz, S.**, Lo Monaco, C., Sergi, S., Koubbi, P., Matching zooplankton abundance and pelagic bioregions. *Deep Sea Research Part I: Oceanographic Research Papers* (Submitted)

Reports

- Koubbi, P., Chartier, A., Penot, F., **Fabri-Ruiz S.**, Brisson Bika Bika, Y., Giraldo, C., Irisson, J.O., Brownlie, K., Dussutour, P., Duhamel G. Programme REC3EPT Ministère de l'Outre-Mer TAAF-Réponses Ecologiques aux changements climatiques et Conservation de l'Ecosystème Pélagique des TAAF.
- Saucède, T., **Fabri-Ruiz, S.**, Fournier, J., De Ridder, C., Marty, G. 2015. Rapport de la 4ème campagne Proteker aux Kerguelen. 33 pp

Oral presentations

- Combining species distribution models and Dynamic Energy Budget theory - An integrative approach to ecological niche modeling. *14^{ème} Journée Scientifiques du Comité National Français des Recherches Arctiques et Antarctiques (CNFRA)*. Strasbourg. 24-27th April 2018
- Improving the quality of species distribution models at large spatial scale to better future predictions. *The XIIth SCAR Biology Symposium*. July 10-14th 2017
- Improving the quality of species distribution models at large spatial scale to better future predictions. *13^{ème} Journée Scientifiques du CNFRA*. May 11-12th 2017. Paris.
(**Best Presentation Award**)
- Species distribution modeling and the heterogeneity of Antarctic biodiversity data. *International Conference of Ecological Sciences*, Marseille. October 24-27th 2016.
- Biogeography of planktonic foraminifera in the Indian part of the Southern Ocean; contribution of the CPR data. *11^{èmes} Journées Scientifiques du CNFRA*, Paris. 28-29 May 2015

Posters

- Exploring the heterogeneity of Antarctic biodiversity data in space and time. *XXXIV SCAR OSC*. Kuala Lumpur. August 22-26th 2016
- Projet d'atlas des poissons marins de France métropolitaine. 6e Rencontres de l'Ichtyologie en France. March 24-27th 2015, Paris. (**Best Presentation Award**)