

# Dr Pierre BOUVAIS

*Marine biologist / Conservationist*

28/12/1985

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## EDUCATION / QUALIFICATION

- 2012-2016 :** **Ph.D in Marine Ecology on the effect of increased suspended sediment on suspension-feeders assemblages within seagrass meadows**  
*Edith Cowan University. AUSTRALIA*
- 2008-2009 ::** **M.Sc. (2<sup>nd</sup> year) Oceanography and Marine Environment, specializing in coastal ecosystems**  
*Pierre et Marie Curie University. FRANCE*
- 2007-2008 :** **M.Sc. (1<sup>st</sup> year) Environment and Coastal Areas**  
*University of La Rochelle. FRANCE*
- 2006-2007 :** **B.Sc. Biology, specializing in marine biology of marine organisms,**  
*University of La Rochelle. FRANCE*

## WORK EXPERIENCE

- 2020 - present** Oceanwise Australia Cowaramup (Australia)  
Environmental consultant (Marine Environment Consultant in Integrated Coastal Zone Management, Marine Spatial Planning, experimental design, field data collection to achieve project outcomes in monitoring and evaluation of conservation projects with Oceanwise Australia).
- 2019 - 2020** (1 years) Conservatoire d'Espaces Naturels Koné (Kanaky)  
Chief Resilience Officer (marine environmental strategy development, local and national conservation policies, climate change adaptation tools, finance mechanisms, education and communication planning and project reporting).
- 2018 - 2019** (2 years) DEAL de Mayotte Mamoudzou (Mayotte)  
Marine environment project officer (manage and coordinate local marine conservation strategies and policies, pilot activities and meetings relating to the local marine environment, local representant for French Initiative for Coral Reefs (IFRECOR), environmental police role).
- 2016 - 2017** (1,5 years) Les Naturalistes de Mayotte Mamoudzou (Mayotte)  
Conservation manager / Curator managing the terrestrial and marine National Natural Reserve of M'bouzi Islet (field work diving, GCRMN surveys, field fauna and flora surveys, Indicators, managing plan writing, environmental police and control, education, communication, reporting, accounting, team management).
- 2012 - 2016** (4 years) Edith Cowan University (CMER) Joondalup (Western Australia)  
Doctoral researcher: Effects of increased suspended sediment on suspension-feeders assemblages within seagrass meadows. (*stable isotopes, flow cytometry, trophic plasticity, suspension-feeders, suspended sediments, field work diving, multivariate statistics*) Supervised by Pr. Paul Lavery and Dr. Mat Vanderklift.
- 2011** (1 year) Edith Cowan University (CMER) Joondalup (Western Australia)  
Study of the impact of sewage disposal on macro-algae assemblages on coastal rocky reefs (*field work diving, samples analyses, macro-algae taxonomy, multivariate statistics*) with Pr. Paul Lavery, Dr. Munked and Dr. McMahon.
- 2010** (2 months) Edith Cowan University (CMER) Joondalup (Western Australia)  
Study of the effects of western rock lobster on benthic, shallow water assemblages (*field work diving, samples analysis, amphipods and gastropods taxonomy, acoustic telemetry*) with Dr. Moore.
- 2010** (6 months) Edith Cowan University (CMER) Joondalup (Western Australia)  
Study of the ability of small grazers (amphipods and gastropods) under different hydrodynamic conditions to ameliorate the effects of nutrient enrichment in seagrass meadows (*field work diving, amphipods and gastropods taxonomy, multivariate statistics*) with Dr. Munkes

**2009** (6 months) Coastal and Environment Institute (LIENSs) La Rochelle (France)  
Study of the spatial and temporal variability of the mesozooplanktonic community structure along the Charente estuary: abiotic and biotic parameters (*communities structure and dynamic, stable isotopes C, N, mesozooplankton taxonomy*) with Drs. Fichet and David

**2008** (4 months) Research Center of the CIBNOR La Paz, B.C.S (Mexico)  
Study to determine the effect of shrimp fishing at the coast of Sonora state (Mexico) thorough the evaluation of some population parameters of one common fish species (*Syacium ovale*) from the shrimp by-catch (DNA extraction, PCR, Electrophoresis, RFLP) with Dr Hernandez

**2007-2008** (school year) Coastal and Environment Institute (LIENSs) La Rochelle (France)  
Studies of nematodes predation by foraminifera, and of the bacterials and virals populations in the Marennes Oléron Bay with Drs Dupuy and Montanie

**2007** (3 months) Laboratory of Biological Oceanography Banyuls sur mer (France)  
Study of the spatial and temporal variability of phytoplankton abundances and communities in the north-western Mediterranean Sea (*pigment assay, flow cytometry, BEM*) with Dr Lantoine

#### PUBLICATION

- **Mesozooplankton community structure in estuaries, are ecotone or ecocline suitable concepts? A case study in a highly turbid estuary.** (publication in progress) *Estuarine, Coastal and Shelf Science*. Modéran J, Bouvais P, David V, Le Noc S, Simon-Bouhet B, Niquil N, Miramand P, Fichet D.
- **Multiple organic matter sources to fuel the planktonic food web in a highly turbid environment, the Charente estuary, France.** Submitted in *Estuarine Coastal and Shelf Science*. Modéran, J., David, V., Bouvais, P., Miramand, P., Fichet D.

#### CONFERENCES

- Modéran, J., Bouvais, P., LeNoc, S., Simon-Bouhet, B., Miramand, P., Fichet, D., David, V., **Spatial and temporal patterns of the mesozooplankton community structure in a highly turbid estuary (Charente estuary, France).** 45<sup>th</sup> Estuarine & Coastal Science Association International Symposium (Trinity College Dublin, Ireland, September 2009)
- Modéran, J., Bouvais, P., David, V., LeNoc, S., Simon-Bouhet, B., Niquil, N., Miramand, P., Fichet, D., **Zooplankton community structure in a highly turbid environment (Charente estuary, France): spatio-temporal patterns and environmental control.** Workshop on Estuarine and Riverine Systems (Toulouse, France, March 2010)
- Bouvais, P., Lavery P., Vanderklift, M., **How dredging impacts on benthic filter-feeders: a structural and functional approach.** 49<sup>th</sup> Annual Conference for the Australian Marine Sciences Association Inc (Hobart, Australie, June 2012)
- Bouvais, P., Lavery P., Vanderklift, M., **How increased suspended sediment impacts on benthic suspension-feeders: a structural and functional approach.** 10<sup>th</sup> International Temperate Reefs Symposium Pierre Bouvais, (Perth, Australie, Janvier 2014)

#### OTHER EXPERIENCE

- Solar panel installer, barman, removalist, deckhand, caterer, construction laborer, landscaper, tutor, metrology assistant, delivery man, lifeguard, carer for children and disabled adults, farm worker...

#### INTERESTS

- Diving, surf, bodyboard, freediving, mountain bike, boxing and interests for travel (Burkina Faso, Mexico, Australia, Europe, Indonesia, Philippines, South Africa, Mauritius ...)
- Personal interest in music, cinema and reading.
- Former member of L'azikumanie association, La Roche sur Yon, FRANCE, from 2005 to 2007 (Conception and organization of *music events and promotion of humanitarian project*).
- Former member of Surfrider foundation in Perth from 2012 to 2013.
- Member of WADDI (West Australian Divers for Diversity Incorporated)

#### SKILLS SUMMARY

- General and marine ecology, populations dynamics, Identification of copepods, cladoceras, amphipods and benthic macrofauna, biometry, benthic index (BQI, AMBI, ...), population genetic, GIS, coastal law.
- French (mother tongue), English and Spanish.
- Computer skills: Office Pack, R, Primers, Sigmaplot 10.0
- ADAS restricted part 1, CMAS \*\*\*, DAN oxygen, BNSSA (Lifeguard Certificate), AFPS (First Aid Certificate), AFCPSAM (Aid Certificate with Materiel)
- Driving and boat licenses (Coxswain grade 2 NC; n >300 h)