

Timothée Bourgeois

Dalhousie University
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Experience

2017-today **Postdoctoral fellow**

Dalhousie University, Department of Oceanography, Halifax, Canada

Topic: Biogeochemical impacts of the Arctic connectivity with the adjacent oceans with emphasis on nitrogen cycling

Supervisor: Katja Fennel

→ Development of a coupled physical-biogeochemical model in a “3Oceans” regional configuration (North Pacific, Arctic and North-Atlantic oceans)

→ Communications: Ocean Science Meeting 2018 (Portland)

2016 **Invitation and participation to peer-review**

→ Estuarine, Coastal and Shelf Science (Elsevier)

2014 **Oceanographic campaign** - 2 weeks during the MOOSE-GE campaign

North-West Mediterranean sea, R/V Le Suroît (IFREMER)

→ Biogeochemical sampling and on-board measurements

2013 **Scientific internship** - 6 months

Laboratoire des Sciences du Climat et de l'Environnement, Gif-sur-Yvette

→ Modelling study at global scale of the seasonal variability of air-sea CO₂ fluxes in the coastal ocean

2012 **Scientific internship** - 2 months

Mediterranean Institute of Oceanography, Marseille

→ Implementation of a coupled model (ROMS-NPZD) intended to investigate impacts of physical processes on biological production linked to island mass effect in the marquesas archipelagos

Education

2013-2017 **Ph.D in Oceanography**

Paris-Saclay University, Laboratoire des Sciences du Climat et de l'Environnement, France

Topic: Biogeochemical impact of anthropogenic perturbations on the global coastal ocean

Supervisors: Laurent Bopp and James Orr. CEA/DGA co-funding

→ High-resolution modelling with NEMO-PISCES

→ Bourgeois et al. (2016). Coastal-ocean uptake of anthropogenic carbon, *Biogeosciences* (13), 4167–4185, doi:10.5194/bg-13-4167-2016

→ Bourgeois et al. Biogeochemical impacts of recent changes in riverine nutrient inputs on the global coastal ocean (*in prep.*)

→ Contributing author of Chap. 16 of the 2nd State of the Ocean Carbon Cycle Report (*in review*)

→ Communications: EGU 2014 (Vienna, Austria), MyOcean Sciences Days 2014 (Toulouse, only attended), DRAKKAR 2014 (Grenoble), Goldschmidt 2015 (Prague), DRAKKAR 2015 (Grenoble), SOLAS 2015 (Kiel), GMMC 2017 (Brest).

→ Ph.D student representative at the laboratory council

- 2011-2013** **Master's degree in physical and biogeochemical oceanography**
Aix-Marseille University, Mediterranean Institute of Oceanography, France
→ Modelling in physics/biogeochemical/coupled (ROMS, ECO3M)
→ Plankton dynamics and metabolisms
→ Inverse method, Data assimilation, Dispersion, Sampling, Marine optics
- 2010-2011** **Bachelor's degree in marine sciences**
Aix-Marseille University, Mediterranean Institute of Oceanography, France
→ General, physical & biological oceanography, Ecological modelling
→ Climatology, Currentology, Sedimentology, Population genetics
- 2008-2010** **Two-year biological/Environment degree**
Institut Universitaire de Technologie, La Roche-sur-Yon, France
→ Biogeochemistry, Biology, Ecology
- 2008** **French Baccaauréat**
Major in Biology – Passed with Distinction

Skills

French	Mother tongue
English	Professional
Spanish	Notions
IT	Linux, OSX, Windows Word processing (LaTeX, Microsoft Office, HTML) Programming (Shell, Ferret, Matlab, Python, FORTRAN)

Hobbies

Guitar, open-water swimming, scuba-diving, freediving, underwater photography

References

Dr. Laurent Bopp
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