

**Timothée Bourgeois**

27 years old

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CANADA

## Oceanography and biogeochemistry modeller

### Education

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**2017-2018 Postdoctoral fellow**

*Dalhousie University, Department of Oceanography, Halifax, Canada*

Topic: Implementation of a coupled physical-biogeochemical model (NEMOv3.6-LIM2-PISCESv3.2) in an Arctic and North Atlantic configuration (CREG025) for operational oceanography purposes

Supervisor: Katja Fennel

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

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

Topic: Impact of anthropogenic perturbations on the biogeochemistry of 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 2<sup>nd</sup> 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 LICENCE in sea environment science** (French equivalent of a BSc)

*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 Baccalauréat**

Major in Biology – Passed with Distinction

## Skills

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

## Experience

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- 2016** **Invitation and participation to peer-review**  
→ Estuarine, Coastal and Shelf Science (Elsevier)
- 2014** **Oceanographic campaign** - 2 weeks during MOOSE-GE campaign  
*North-West Mediterranean sea, R/V Le Suroît (IFREMER)*  
→ Biogeochemical sampling and measures in on-board laboratory
- 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 CO<sub>2</sub> 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
- 2010** **Scientific internship** - 3 months  
*Machrihanish Marine Environmental Research Laboratory, Scotland*  
→ Comparative study between an open-water and a recirculation system based on growth efficiency and water quality criteria for farming of atlantic cod larvae, enhancement of rotifera production for larval feeding

## Hobbies

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

## References

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