

# Arnaud VENNIN

04/23/1989 (25 years old)  
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## Education

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| <b>2014</b>      | <b>PhD of Geosciences</b><br>Subject: studying of the water-sediment interface in aquatic geosystems: coupled approach geochemistry and modeling for the evaluation of nutrient fluxes (C, N, P)<br><i>UMR 6143 M2C IRESE A - Mont-Saint-Aignan (France)</i> |
| <b>2013-2014</b> | <b>Transnational Water Management (ERASMUS program)</b><br><i>Radboud Universiteit - Nijmegen (Netherlands)</i>  |
| <b>2012-2013</b> | <b>Master of Environmental Sciences and Water Management</b><br><i>UFR Sciences et techniques - Mont-Saint-Aignan (France)</i>   |
| <b>2009-2012</b> | <b>Bachelor of Environmental and Earth Sciences</b><br><i>UFR Sciences et techniques - Mont-Saint-Aignan (France)</i>  |

## Skills

**Geosciences** : hydrology, sedimentology, water management, biogeochemistry, GIS  
**Physics**: fluid mechanics, diffusion of dissolve elements, nutrient adsorption/desorption  
**Mathematics** : statistical  
**Modeling**: basis of Fortran 90  
**Biology** : microbiology  
**Fieldwork skills**: water sampling, sediment core sampling  
**Software** : R (statistical), Windows Office (Word, Excel, Powerpoint), LateK, Paraview  
**Language skills** : English spoken and written  
Basis in Spanish and German

## Works Experience

• **May to June 2012, April to June 2013, February to June 2014 (respectively 6, 8 weeks and 6 months)**

Internship in a Geosciences Lab (Rouen - FRANCE)

- Improvement of a device to quantify the porewater nutrients in estuarine mudflat, development of research skills, communication skills, teamwork, thoroughness
- Co-author in 2 different science publications being validated:
  - Modeling nutrients fluxes at the sediment-water interface in two different estuaries under contrasted climate conditions : Seine (France) and Somone (Senegal) estuaries (Mesnage et al., Geoscience)
  - Biogeochemistry study in mangrove ecosystem sediments using dialysis porewater sampler (Sakho et al., Book)

## Publications

Mesnage, V., Lecoq, N., Sakho, I., & Vennin, A. (2013). Modeling nutrients profiles at the sediment–water interface. Calibration and validation from two climatically contrasted estuaries: Seine (France) and Somone (Senegal). *Comptes Rendus Geoscience*.

Sakho I., Mesnage V., Lecoq N., Deloffre J., Vennin A., Lafite R. (2013). Biogeochemistry study in mangrove ecosystem sediments using dialysis porewater sampler. In *Mangrove Ecosystems: Biogeography, genetic Diversity and conservation strategies*. Chapter 9. Environmental Research Advances Series. (Ed .) G. Gleason & T.R. Victor. (Pub.) Nova Sciences. 167-189.