

# ROMAIN DARNAJOUX

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## CURRENT POSITION

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**Sherbrooke University, Ecology department** Sherbrooke, QC, Canada  
Postdoctoral researcher and coordinator of the Boreal Mini-FACE facility at Simoncouche  
(<http://miniface.espaceweb.usherbrooke.ca/>) 2015-Present

## EDUCATION

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**Sherbrooke University, Chemistry department** Sherbrooke, QC, Canada  
PhD, Biogeochemistry 2011-Aug 2015

**National Graduate School of Chemistry of Lille (ENSCL)** Lille, France  
MSc, Chemistry 2006-2010

**François Ier College** Fontainebleau, France  
CPGE Biology (French undergraduate selective program, equivalent to BSc) 2004-2006

## AWARDS

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**Chapitre Saint-Laurent Awards** 2015  
- Science vulgarization video competition, public prize  
- Science vulgarization video competition, jury prize  
- Excellence certificate

**"Gene H. Kruger" Excellence Award** 2014

## RESEARCH EXPERIENCE

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**Sherbrooke University, Ecology department** Sherbrooke, QC, Canada  
Postdoctoral researcher. Advisor: Robert Bradley July 2015-Present  
"Studying the interaction of global changes with the N cycle in boreal ecosystems"  
- Planned experiment on N dynamics in boreal forest  
- Coordinated field works, helped graduate students

**Sherbrooke University, Chemistry department** Sherbrooke, QC, Canada  
PhD, Biogeochemistry. Advisor: J-P Bellenger 2011-2015  
"Homeostasis of essential micronutrient for biological nitrogen fixation in the boreal trimembered cyanolichen *Peltigera aphthosa*".  
- Developed analytical procedures for the study of micronutrients in trimembered cyanolichens.  
- Studied the impact of temperature on Nase isozymes using ARACAS.

**University of Kent, Biosciences Department** Canterbury, England  
MSc project. Advisor: G.K. Robinson, M.J. Howard Apr. 2010-Oct. 2010  
"Toward the use of STD-NMR for ligand/microbial cell interaction."  
- Evaluated the use of STD-NMR to probe interaction between HSL / *Pseudomonas aeruginosa* cells using enzymatic model.  
- Studied efflux pump in *Pseudomonas aeruginosa* with fluorescent molecule

## SKILLS AND TECHNICS

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- ICP-MS maintenance and analysis
- Analytical method development for biological systems
- Biological nitrogen fixation measurement methods: **Cavity ring-down spectroscopy**, <sup>15</sup>N tracer, acetylene reduction assays.
- Multivariate and univariate statistical analysis (R software)

## TEACHING EXPERIENCE

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- Sherbrooke University, Chemistry department** Sherbrooke, QC, Canada
- Analytical chemistry practical (BSc, Prof. Brisard), 4h course 2013-2015  
"Error measurement and statistics." Designed and taught course.
  - Analytical chemistry (BSc, Prof. Segura), 2h invited course. 2014-2015  
"Element quantification in biological tissues with Inductively-coupled plasma mass spectrometry. Theory and application." Designed and taught course.

## RELATED PROFESSIONAL EXPERIENCE

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- Mini FACE project** Sherbrooke, QC, Canada
- Coordinator: 2015-Present
- Serviced the facility
  - Managed students experiments

- Paris Descartes University, Practical chemistry laboratory** Paris, France
- Lab manager: Dec. 2010-Aug. 2011
- Managed 2 technicians and serviced analytical equipment
  - Allocated annual budget (40000€)

## RELEVANT ADDITIONNAL SKILLS

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- Trainings**
- Paris Descartes University, Hygiene and security conseiller (ACMO), 6 days 2010

- Leadership experience**
- Student office of National Graduate School of Chemistry (ENSCL) Lille, France
- Head of the student office: 2007-2008

- Managed 8 persons
- Allocated annual budget (10000€)

- Regional office of engineering student of Nord-Pas-de-Calais Lille, France
- Internal relation coordinator 2007-2008

- Hygiene and Security Council, ENSCL Lille, France
- Elected student representative 2008-2010

- Regional Student Affair Council (CROUS, Nord-Pas-de-Calais) Lille, France
- Elected substitute representative at the council board, 2008-2009

## Languages

French (mother tongue), English (fluent), Japanese (common knowledge, 2 months internship in production quality control, Tajimi, Japan)