

## Marina LAUNAY

French, 10/05/1987.

86, rue de Paris  
01170 Gex - France

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Tél. : 0033 6 89 73 49 70

### WORK EXPERIENCE

- Since August 2014 *Research and Design Engineer*  
**Stucky SA, Renens (Switzerland)**  
Marie Curie Initial Training Networks (ITN) – SEDITRANS project.  
Project title: “Engineering applications on fluvial projects”
- Sept. 2010 – Nov. 2013 *PhD in hydraulic and environmental chemistry*  
**Irstea, National Research Institute of Science and Technology for Environment and Agriculture, Lyon (France)**  
Fluxes of suspended particulate matters, and associated PCBs and mercury in the Rhône river, from lake Geneva to the Mediterranean Sea.
- Feb. 2010 – Jul. 2010 *Hydraulic engineer trainee*  
**CNR, Compagnie Nationale du Rhône, Lyon (France)**  
Hydraulic modelling of bridge piers in rivers.
- Apr. 2009 – Aug. 2009 *Hydraulic engineer trainee*  
**Irstea, National Research Institute of Science and Technology for Environment and Agriculture, Lyon (France)**  
Hydraulic modelling of sediment transport in the Old Rhone River.
- Oct. 2008 – Mar. 2009 *Hydrology engineer trainee*  
**IRD, Institut de Recherche pour le Développement, Quito (Equator)**  
Water balance of the hydrologic network of the volcano Antisana.
- Jul. 2008 – Sept. 2008 *Water treatment engineer trainee*  
**Rotary Club & École Polytechnique, Antananarivo (Madagascar)**  
Installation of a drinking water production system in river, using a membrane.
- Apr. – Jun. 2006 *Laboratory technician trainee*  
**Laboratory of microbiology, University of Ottawa (Canada)**  
Study of the bacterial resistance to antibiotics.

### EDUCATION

- 2010 – 2014 **PhD in hydraulics and environmental chemistry**  
Université Claude Bernard, Lyon (France).
- 2006 – 2010 **Engineering degree in Water Sciences**  
École Polytechnique Universitaire, Montpellier (France).
- 2009 – 2010 **Erasmus exchange of one semester, Water management**  
BOKU Universität, Vienna (Austria).
- 2004 – 2006 **DUT, Génie Biologique Génie de l’Environnement**  
Equivalent to a national technological graduate diploma in Applied Biology and Environmental Sciences.  
Institut Universitaire de Technologies, Saint-Étienne (France).

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## GENERAL SKILLS

- Data collection in rivers:** Management of field work, development of measurement protocol.  
Use of measuring equipment, physico-chemical analyses.
- Handling of environmental data:** Scientific computing and programming (R).  
Hydro-sedimentary modelling (HEC-RAS, Crue, rhubarb).  
Spatial analysis and geoinformation (ArcGIS, QGIS).
- Oral and written expression:** Writing of reports and scientific papers (Latex, LibreOffice, Word).  
Conduct meetings and presentations in seminars and international conferences.

### Languages:

	Understanding		Speaking		Writing
	Listening	Reading	Interaction	Production	
French	Mother tongue				
English	TOEIC : 955 (in 2010)				
	C1	C1	C1	C1	C1
Spanish	C1	C1	C1	C1	B2
Deutsch	B1	B2	B1	B1	B2

- Miscellaneous:** Driving license (2005) and personal vehicle.  
First-aid certificate (2013).  
Taste for travelling, sports (climbing, running, skiing), literature.

## RESEARCH PUBLICATIONS

### Peer-reviewed:

**Launay, M.**, Le Coz, J., Camenen, B., Walter, C., Angot, H., Dramais, G., Faure, J.-B., Coquery, M., « Assessment of methods for calibrating the longitudinal dispersion of pollutants in 1-D hydraulic models of large rivers », submitted in November 2013 to the Journal of Hydro-environment Research.

Thollet, F., Le Coz, J., Antoine, G., François, P., Saguintaah, L., **Launay, M.**, Camenen, B., « Influence de la granulométrie des particules sur la mesure par turbidimétrie des flux de matières en suspension dans les cours d'eau », La Houille Blanche, n° 4, 2013, p. 50-56

Angot, H., **Launay, M.**, Sabot, P., Coquery, M., Le Coz, J., « Representativeness of contaminant concentrations in suspended particulate matter collected in rivers using integrative sediment traps », Environmental Pollution, 2014, ongoing.

**Launay, M.**, Le Coz, J., Camenen B., Armijos, E., Moore, S., Angot, H., Coquery, M., « Separating Gaussian modes in grain size distributions for river sediment studies », Journal of Sediment Research, 2015, ongoing.

**Launay, M.**, Le Coz, J., Poirel, A., Némery, J., Antonelli, C., Thollet, F., Reynaud, S., Diouf, S., Coquery, M., « Budgets of suspended particulate matters and associated PCBs and mercury fluxes in the Rhône River », Journal of Hydrology, 2015, ongoing.

**Launay, M.**, Le Coz, J., Angot, H., Panay, J., Lagouy, M., Grisot, G., Coquery, M., « Experimental study of the spatio-temporal variability in particulate contaminant fluxes in the Rhône river catchment and its consequences for their quantification », Environmental Pollution, 2015, ongoing.

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### Public presentations:

**Launay, M.**, Angot, H., Coquery, M., Le Coz, J., « Particulate contaminant fluxes in the Upper Rhône River », IS Rivers, Lyon, June 2012: oral communication and extended abstract (conference acts).

**Launay, M.**, Le Coz, J., Angot, H., Coquery, M., « Assessment of analytical models for simulating continuous time series of suspended particulate matter concentration in regulated rivers », River Flow 2012, San José, Costa Rica, September 2012 : oral communication and paper in the conference records (pp 977-983).

**Launay, M.**, Angot, H., Coquery, M., Le Coz, J., « Flux de contaminants particuliers dans le Haut Rhône », Colloque Morphodynamique et Transport solide en rivière. Tours, France, October 2012: oral communication.

**Launay, M.**, Coquery, M., Angot, H., Le Coz, J., « Particulate contaminant fluxes in the Upper Rhône River », 29th International Conference on environmental Geochemistry and Health, Toulouse, France, July 2013: oral communication.

**Launay, M.**, Andries, E., Le Coz, J., Coquery, M., Faure, J.-B., Camenen, B., « 1D modelling of contaminant transport through a multi-channel large river system », World's Large Rivers, BOKU, Vienne, Autriche, April 2011: poster.

**Launay, M.**, Angot, H., Roux, L., Coquery, M., Le Coz, J., « Assessing particulate contaminant fluxes throughout river networks and the associated uncertainties », European Meeting on Environmental Chemistry, Clermont-Ferrand, December 2011: poster.