

Samah Larabi, Ph.D.

Postdoctoral Scientist
Pacific Climate Impacts Consortium
University House 1
University of Victoria, Victoria, BC, Canada V8W 2Y2

Tel: 250-472-4484
slarabi@uvic.ca

RESEARCH DOMAINS

Hydrological and Hydrodynamic Modelling, Optimization and Calibration, Statistical hydrology, Climate Change, Uncertainty Analysis

PROFESSIONAL EXPERIENCE

- 04/2019- present **Postdoctoral Scientist**, Pacific Climate Impacts Consortium, University of Victoria, Victoria, BC, Canada
- 10/2017- 03/2019 **Postdoctoral Scientist**, Department of Civil Engineering, Université de Sherbrooke, Sherbrooke, QC, Canada

EDUCATION

- 01/2014– 09/2017 **Ph.D. Water Sciences**, Institut National de la Recherche Scientifique, Centre Eau Terre Environnement (INRS-ETE), Quebec City, QC Canada.
- 09/2010- 09/2013 **MSc Mathematics and Modelling**, Polytech Clermont-Ferrand, Graduate School of Engineering, Clermont-Ferrand, France.

LANGUAGES

English, French

PUBLICATIONS

- Larabi S.**, St-Hilaire A., Chebana F., and Latraverse M. (2018): Using Functional Data Analysis to calibrate and evaluate hydrological model performance. *J. Hydrol. Eng.* 23(7). Doi:10.1061/(ASCE)HE.1943-5584.0001669.
- Larabi S.** (2017). Novel calibration approaches for automatic calibration applied to a conceptual semi-distributed hydrologic model. Ph.D. Thesis, INRS-ETE, Quebec, Canada
- Larabi S.**, St-Hilaire A. and Chebana F. (2017): A new concept to calibrate and evaluate hydrological model based on functional data analysis. *Journal of Water Management Modeling* 26:C442. <https://doi.org/10.14796/JWMM.C422>
- Larabi S.**, St-Hilaire A., Chebana F., and Latraverse M. (2017): Multi-criteria process-based calibration using functional data analysis to improve hydrological model realism. *Water Resour Manage.* Doi: 10.1007/s11269-017-1803-6.

St-Hilaire A., Boucher, M-A., Chebana F., Ouellet-Proulx S., Zhou Q-X., **Larabi S.**, Dugdale S. and Latraverse M. (2015): Breathing new life to an older model: the CEQUEAU tool for flow and water temperature simulations and forecasting. In proceedings of the 22nd Canadian Hydrotechnical conference, Montreal, Qc, Canada, 29 April-2 May 2015

CONFERENCES AND POSTERS

Larabi S., Schnorbus M.A., Mai J. and Tolson B.A. 2021. Hydrologic Parameter sensitivity across a large-domain.

Poster presented at the Global Water Future 4th Annual Open Science Meeting, May 17-19 2021.

Larabi S., Leconte R. 2019. Impact des changements climatiques sur le régime hydrique de bassins versants du Québec de taille comprise entre 25 et 500 km².

Poster presented at Colloque Association Québécoise de télédétection/ la recherche en hydrologie au Québec (AQT/RHQ), Sherbrooke, Canada, May 15-17 2019.

Larabi S., Leconte R. 2019. Estimation de l'impact des changements climatiques anticipés sur le régime hydrologique de bassins versants de tailles variant entre 25 et 500 km².

Invited Speaker, OURANOS. Montréal, Canada, March 27 2019.

Larabi S., St-Hilaire A. and Chebana F. 2017. A new concept to calibrate and evaluate hydrological model based on functional data analysis.

Talk during the 50th International Conference on Water Management Modelling (ICWMM), Toronto, Canada, March 1-2 2017.

Larabi S., St-Hilaire A. and Chebana F. 2016. A multi-criteria process-based calibration coupled with functional data analysis applied to a conceptual model.

Talk during the 7th conference of the International Commission on Statistical Hydrology (STAHY), Quebec City, Canada, September 26-27 2016.

Larabi S., St-Hilaire A., Chebana F., and Latraverse M. 2016. A Two-Step Approach calibration using functional data analysis to evaluate hydrological model performance. Case study: Calibrating CEQUEAU model on the Lac St-Jean drainage basin.

Talk during the 69th National Conference of the Canadian Water Resources Association (CWRA), Montréal, Canada, May 25-27 2016.