

Mr. Etienne Fluet-Chouinard

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EDUCATION

- PhD Student – Freshwater & Marine Sciences;** 2013 – pres.
- Center for Limnology, University of Wisconsin-Madison, USA
 - Advisor: Prof. Peter B. McIntyre
 - Provisional dissertation title: Global assessment of wetland stressors, degradation and conservation opportunities.
- M.Sc – Geography;** McGill University, Canada 2009 – 2012
- Advisor: Prof. Bernhard Lehner
 - Thesis Title: Toward a global high-resolution inundation map derived from remote sensing imagery: African continent application.
- B.Sc – Applied Environmental Geomatics;** Université de Sherbrooke, Canada 2006 – 2009
- COOP certificate from completion of three internships;
 - Final project in partnership with local watershed authorities: Hydrological simulation of historical land use on spring floods in a mesoscale watershed.

PROFESSIONAL EXPERIENCE

Internship / Work Experience:

- International Institute for Applied Systems Analysis (IIASA), Vienna, Austria. 2014
- Young Scientist Summer Program, Water Program.
- McGill University & Abisko Scientific Research Station, Sweden. 2012
- Fieldwork technician for permafrost peatland hydrology and carbon biogeochemistry.
- International Water Management Institute (IWMI), Addis Ababa, Ethiopia. 2011
- Rainwater management intervention suitability mapping in the Ethiopian Highlands.
- École Supérieure Polytechnique d'Antananarivo, Antananarivo, Madagascar. 2008
- GIS modeling of *lavaka* gully erosion and their downstream agricultural impacts.
- Natural Resources Canada, Atlantic Division Forest Service (CFS), Corner Brook, Canada. 2008
- Development of regional forest inventory techniques from satellite imagery.
- Environment Canada, Existing Substances Division, Gatineau, Canada. 2007
- Database management of industrial pollutant and aquatic exposition risk.

Teaching experience:

- University of Wisconsin-Madison:
- Animal Biology, 100 level course, Lab lecturer. 2013 – 2014
- McGill University:
- Environmental Hydrology, 300 level course, Teaching Assistant. 2010 – 2011
 - Introduction to GIS, 200 level course, Lab lecturer. 2010
 - Introduction to Remote Sensing, 300 level course; Lab & Guest lecturer. 2009
- Université de Sherbrooke:
- Integrated Watershed Management, Master's level course, Guest lecturer. 2010

ABILITIES

- Languages: English (fluent), French (native), Spanish (intermediate), Hindi (beginner).
- Programming Languages: Python, R, SQL, C++, HTML, VB.
- Software (alphabetical): ArcGIS (3.3, 9.x, 10), ArcSWAT, ENVI, HYDROTEL, IDRISI Andes, MatLab, MS Office Suite, MySQL, Orange Data Mining, PCI, PostGIS, SPSS.

AWARDS (SELECTED, PAST 3-YEARS)

- DAAD - Visiting Scholar, Short Stay in Germany Scholarship (USD 2,700). 2015
- FQRNT - Quebec Provincial Doctoral Scholarship B2 (CAD 36,000). 2014-15
- IIASA - International Young Scientist Summer Stipend (USD 7,000). 2014
- U. of Wisconsin-Madison - Chancellor's Opportunity Award (USD 2,000). 2013
- American Geophysicist Union, Chapman - Student Travel Grant (USD 1,250). 2012
- Global Environmental and Climate Change Center - Student Stipend (CAD 2,500). 2012
- Warren Fieldwork Award from McGill Department of Geography (CAD 2,000). 2012

CONFERENCE PRESENTATIONS

Oral presentation (1st author):

Fluet-Chouinard, E., Lehner, B., Rebelo, L.M. Toward a global high-resolution inundation map: African continent application. Invited Presenter at the 9th INTECOL International Wetlands Conference. Orlando, FL, June 2012.

Fluet-Chouinard, E., Lehner, B., Development of a methodology for downscaling of a global high-resolution inundation map. Student Day of the Global Environmental and Climate Change Center (GEC3) FQRNT Strategic Cluster. Montreal, Canada, April 2012.

Poster presentation (1st author):

Fluet-Chouinard, E., McIntyre, P.B., Lehner, B. Have 50% of the world's wetlands been lost? Mapping the natural extent of wetlands globally and estimating loss over two centuries. Joint Aquatic Science Meeting. Portland, OR, USA, May 2014.

Fluet-Chouinard, E., Lehner, B. Development and Validation of a High-Resolution Global Inundation Delineation Dataset. AGU Chapman Conference on Remote Sensing of the Terrestrial Water Cycle. Kona, HI, February 2012.

Fluet-Chouinard, E., Lehner, B. Global High-Resolution Inundation Extent Mapping: Mekong River Basin Application. AGU Fall Annual Meeting. San Francisco, CA, December 2011.

PEER REVIEWED PUBLICATIONS

Fluet-Chouinard, E., McIntyre, P.B. (in preparation): Comparison of locally reported and globally mapped freshwater ecosystem stressors.

Fluet-Chouinard, E., Lehner, B., Rebelo, L.M., Papa, F., Hamilton, S.K. (2015): Development of a global inundation map at high spatial resolution from topographic downscaling of coarse-scale remote sensing data. *Remote Sensing of Environment*, 158: 348-361.

Grill, G., Ouellet Dallaire, C., **Fluet-Chouinard, E.,** Sindorf, N., Lehner, B. (2014): Development of new indicators to evaluate river fragmentation and flow regulation at large scales: a case study for the Mekong River Basin. *Ecological Indicators*, 45: 148-159.