

Curriculum Vitae of Tiphaine Després

Mr Tiphaine Després

Born the 23rd February 1986

Nationality: French

Languages: French (native language) – English (fluent)

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SKILLS

Software

- R (build packages, functions, parallelization, etc.)
- Mixed models, glm, lm, PCA, RDA, spatial analysis (point pattern analysis), parametric tests (t test, ANOVA ...), non parametric test (chi-square test Wilcoxon test...), survival test, ANCOVA, AIC, etc.
- LANDIS-II (landscape modeling)
- Linux (Emacs, LaTeX, org-mode, Git)
- GIS (ArcGIS, QGIS)
- Office suite, Photoshop, In Design...

Generals

- Rigour, autonomy, organization and confidence
- Team and autonomy working
- Teaching
- Fast and efficient decisions making
- Multi-task management
- Usable synthesis report by everyone

DIPLOMA

- 2015: PhD in Environmental Sciences (UQAT)
- 2010: Master of Science in Ecology, Evolution and Biometry (University Lyon 1)
- 2009: Maîtrise (First year of MSc) in General Ecology (University Lyon 1)
- 2008: Licence (BSc) of Biology on Organisms and Populations (University Lyon 1)
- 2004: Scientific Baccalauréat

WORK EXPERIENCES

February – August 2014 and January - December 2015: **Teaching assistant** for undergraduate and PhD students at UQAM for the courses BIA 1700 Organisms and environment (two times), BIO 6600 Fieldwork methodology in ecology – Vegetation component and ENV 9501 Environmental systems dynamic (two times).

2011-2015: PhD in Environmental Sciences on the **natural disturbances dynamic of the Temiscamingue temperate deciduous forest**

- Worked in collaboration with my supervisor Dr. Hugo Asselin (Université du Québec en Abitibi-Témiscamingue) and my co-supervisors Dr. Frédérik Doyon (Institut des Sciences de la Forêt tempérée) and Dr. Yves Bergeron (Chaire industrielle CRSNG, UQAT-UQAM).
- Reconstitution and modeling of the natural disturbances dynamic of the sugar maple – yellow birch bioclimatic domain at stand and landscape scale
- Dendrochronology, statistical and spatial (point pattern analysis) analysis using R software and LANDIS-II (landscape modeling)

January – June 2010: Master training on **the lentic aquatic ecosystem organism responses representative to a chronic exposition** to percolated water of contaminated marine sediment.

- Worked in collaboration with Dr. Bernard Clément (Environmental Science Laboratory, Vaulx-en-Velin, France) and Dr. Sylvie Merigoux (CNRS Unit 5023, Lyon, France).

- Organization and monitoring of a long experimentation (3 months)
- Statistical analyses with R software – Mixed models, PCA, glm

February – June 2009: Training on **the impact of an organophosphorus pesticide on the interspecific mating of two trichogramma species**, *Trichogramma semblidis* and *T. evanescens*.

- Worked in collaboration with Dr. Jean-Marie Delpuech (CNRS Unit 5558, Lyon France).
- Organization and adaptation of a new protocol
- Statistical analyses with R software – Chi-square test, logrank test (Survival analysis)

February – August 2008: Training on **the phylogeography of *Eucalyptus regnans*, *E. Delegatensis* and *E. Obliqua* population's**. This was a conventional training by the University Claude-Bernard Lyon 1, performed in the Melbourne University (Australia).

- Worked in collaboration with Dr. Gerd Bossinger and Dr. Paul Nevill (Forest and Ecosystem Science, Creswick, Australia) and with Dr. Jean-Marie Delpuech as academic referring in France.
- Participated to a scientific project from beginning to end – Field work in difficult conditions in Australian Alps – Oral report in English
- Molecular biology – DNA extraction, PCR (use of microsatellites markers) and others lab works

October 2007 – January 2008: Training on **the roe population repartition** in an Experimentation and Study Territory.

- Worked in collaboration with Dr. Jean-Michel Gaillard (CNRS Unit 5558, Lyon, France).
- Studies of population genetics and field work (Capture – Mark – Recapture)
- Computerizing, structuring and analyses of an extensive dataset (over 30 years) with R software – linear models

PUBLICATIONS

Després, T., Asselin, H., Doyon, F., Drobyshev, I. & Bergeron, Y. 2016. Gap disturbance regime of old-growth temperate deciduous forests at their northern range limit. *Journal of Vegetation Science*. In press. doi:10.1111/jvs.12480

Després, T., Asselin, H., Doyon, F. & Bergeron, Y. 2014. Structural and spatial characteristics of old-growth temperate deciduous forests at their northern distribution limit. **Forest Science** 60(5): 871–880.

Nevill, P.G., **Després, T.**, Bayly, M.J., Bossinger, G. & Ades, P.K. 2014. Shared phylogeographic patterns and widespread chloroplast haplotype sharing in *Eucalyptus* species with different ecological tolerances. **Tree Genetics & Genomes** 10(4): 1079-1092.

REFERENCES

Hugo Asselin Hugo.Asselin@uqat.ca, Professor, Titular of the Canadian Chair in first nation forestry. Département des sciences du développement humain et social Université du Québec en Abitibi-Témiscamingue 445, boulevard de l'Université, Rouyn-Noranda (Québec) J9X 5E4, Canada.

Yves Bergeron yves.bergeron@uqat.ca, Professor, Centre for Forest Research and Natural Sciences and Engineering Research Council-UQAT-UQÀM, Industrial Chair in Sustainable Forest Management. Université du Québec en Abitibi-Témiscamingue 445, boulevard de l'Université, Rouyn-Noranda (Québec) J9X 5E4, Canada.

Frédéric Doyon Frederik.Doyon@uqo.ca, Professor, University of Quebec in Outaouais and Institute of Temperate Forest Science and Centre for Forest Research (ISFORT). Université du Québec en Outaouais, 58 Principale, Ripon, Québec, J0V 1V0, Canada.

Gerd Bossinger gerd@unimelb.edu.au, Associate professor, School of Forest and Ecosystem Science University of Melbourne, Water Street, Creswick, Victoria 3363, Australia.

SCHOLARSHIP

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| 2012 | Jean-Jacques Cossette scholarship – For exceptional forestry research (UQAT foundation) |
| 2008 | International mobility scholarship – For my Australian training (UCBL Lyon 1) |

CONFERENCE ORGANIZATION

I done all the budget part of the 10th ACUNS' student conference on Northern studies. November 2012. [<http://www.uqat.ca/sce2012/?lang=en&menu=home>]

ORAL PRESENTATION

Després T., Doyon F., Cyr D., Asselin H. et Y. Bergeron, Novembre 2014, Peut-on aménager la forêt feuillue tempérée nordique et maintenir ses attributs de forêts anciennes ?, 16^e colloque annuel de la Chaire en Aménagement Forestier Durable, Amos, Canada.

Després T., Asselin H., Doyon F., Drobyshev I. et Y. Bergeron, April 2014, Régime de trouées à la limite nordique de la forêt tempérée feuillue, 8e colloque annuel du CEF, Montréal, Canada.

Després T., Asselin H., Doyon F. and Y. Bergeron, June 2013, Dendroecological characterization of an old-growth temperate forest in western Quebec, 9th NAFEW conference, Bloomington, Indiana.

Després T., Asselin H., Doyon F. and Y. Bergeron, April 2013, Caractérisation de vieux peuplements du sous domaine bioclimatique de l'érablière à bouleau jaune de l'ouest, 7e colloque annuel du CEF, Montebello, Canada.