

David Grenier-Héon

Department of biological sciences, University of Quebec at Montreal
P.O. box 8888, Station Centre-Ville, Montréal (Québec), Canada, H3C 3P8
grenier_heon.david@courrier.uqam.ca

Profile

- Research interest: forest and theoretical ecology, biostatistics, ecosystem functioning, complexity theory
- Knowledge of north american boreal trees ecology
- Skills in scientific programming and data analysis (RStudio)
- Languages: French (maternal language), English (high fluency for speaking and writing), Spanish (intermediate/advanced level)

Academic formation

Master degree (M.Sc.) in biology since sept. 2017
University of Quebec at Montreal

Project: Analysis of historical tree mortality rates in Quebec's boreal forest within the climate change context

Supervisor: Dr. Changhui Peng (UQAM)

Co-supervisor: Dr. Daniel Kneeshaw (UQAM)

Funding: Fonds de Recherche du Québec – Nature et Technologies (FRQNT)

Bachelor's degree (B.Sc.) in Biology 2016
University of Quebec at Rimouski

College Diploma (DEC) in Science 2012
Lévis-Lauzon Cegep

Working experiences

Teaching auxiliary for ecology certificate course "Seminar in ecology and data analysis" 2018
University of Quebec at Montreal

Field assistant, Forest Ecology and Management Laboratory 2017
University of Quebec at Montreal

Field assistant, Global Treeline Range Expansion Experiment (GTREE) 2016
University of Quebec at Rimouski, Moncton University

Research and field assistant, Management and Sylviculture Laboratory 2013 to 2016
University of Quebec at Rimouski

Previous research projects

Stands diversity effect on tree growth allometry in Quebec's temperate and boreal forests (to be continued) 2015 to 2016

Management and Sylviculture Laboratory, University of Quebec at Rimouski

Research project whose main objective was to verify the influence of the diversity of forest stands on the growth allometry of six tree species present in Quebec. The work was co-supervised by Robert Schneider (UQAR) and Tony Franceschini (UQAR) and carried out as part of the course "Synthetic activity in ecology of fauna and its habitats" and as research assistant at UQAR. Many statistical analyzes have been carried out, including generalized additive models (GAM). The project is currently being drafted and publication in a scientific journal is expected at the end of it.

Analysis of fauna potential of *hibernacula* used by bat species in Quebec province within the white-nose syndrome invasion context

2014 to 2015

University of Quebec at Rimouski

Ministère du Développement durable, de l'Environnement, de la Faune et des Parcs

Part of the study consisted in a literature review of key aspects of the hibernation of two species of North American bats affected by the white nose syndrome. An analysis of the microclimate (mixed models) of natural cavities in Outaouais region (Quebec) was also carried out with the aim of determining their wildlife potential for the two target species as well as for the organism which was the vector of the disease. Carried out as part of the courses "Introduction to research" and "Microthesis", the work was co-supervised by Ariane Massé (MDDEFP), Anouk Simard (MDDEFP, Université Laval) and Pierre Rioux (UQAR), with the participation of "Alain Caron (UQAR).

Scientific communications

Presentation of master research project at various congress

since 2018

- Oral presentation, 21th congress of Forest Sustainable Management research chair, Le Noranda congress centre, Rouyn-Noranda, November 27th, 2019
- Flash oral presentation and poster presentation, Carrefour Forêt, Quebec's Congress Centre, Quebec City, April 4th, 2019 (Overseen by Minister of Forest, Fauna and Parks of Quebec)
- Poster presentation, 87th congress of the Francophone Association for Knowledge (ACFAS), University of Quebec in Outaouais, May 30th, 2019
- Poster presentation, 12th (Laval University, Quebec City, May 1st, 2018) and 13th (University of Quebec at Chicoutimi, Chicoutimi, May 2nd, 2019) congress of the Centre for Forest Research (CFR)

Other implications and realisations in academia

Press article on Ph.D. research project (published in *Le journal de Montréal* and *TVA nouvelles*)

2015

Université of Québec at Rimouski

<https://www.journaldemontreal.com/2020/02/07/une-premiere-etude-complete-des-arbres-de-montreal-1>

<https://www.tvanouvelles.ca/2020/02/07/une-premiere-etude-complete-des-arbres-de-montreal>

Opinion letter related on the TransCanada pipeline project (published in press journals *L'Avantage* and *Le Soleil*)

2015

Université of Québec at Rimouski

<https://www.lavantage.qc.ca/actualites/societe/2015/4/28/des-etudiants-de-l-uqar-sonnent-l-alarme-4127748.html>

<https://www.lesoleil.com/opinions/point-de-vue/linaction-nous-coulera-cher-collectivement-480afaeb346894ebbe5f71e6d075905d>

Participation to the redaction of a memoir dedicated to a public consultation about the protected areas of the Bas-Saint-Laurent region (Quebec)

2013

Biology Student Association (REEB), University of Quebec at Rimouski

Other interests

- **Drummer in rock band** : <https://amaniterock.bandcamp.com/>
- **Intérêts** : outdoor (trekking, survival, animal tracking), music, basket-ball, reading

since 2014