Benjamin Mercier B.Sc. In Ecology

< <u>₩</u> + <u>□</u> > Aspiring quantitative ecologist

EDUCATION

2022 September 2020

M.Sc. in Ecology

Integrative Ecology Lab - Université de Sherbrooke

Sherbrooke, CA

 Modelling the Arctic: Reconstruction of the ecological networks of Bylot (Canada), with a General Ecosystem Model approach.

2020 2016

B.Sc. in Ecology

Université de Sherbrooke

Sherbrooke, CA

• Undergraduate research project : « Structure of the reconstructed trophic networks of the terrestrial vertebrates of Quebec: an algorithmic approach (KNN) »

2020 2016

Microprogram in Practical Ecology

Université de Sherbrooke

Sherbrooke, CA

• Wildlife and vegetation identification, survey methods and site evaluation

SCHOLARSHIP

2022

Quebec Graduate Scholarship-Master

Sherbrooke, CA • 17 500 \$ Master Scholarship

2021

2021

Canada Graduate Scholarship-Master Sherbrooke, CA **NSERC**

• 17 500 \$ Master Scholarship

2020

2020

Undergraduate scholarship for training in computational ecology

BIOS2

Sherbrooke, CA

• 2 000 \$ Undegraduate Scholarship

2017

Undergraduate Student Research Award

NSERC

Sherbrooke, CA

4 500 \$ Undergraduate Scholarship

Admission Scholarship 2016

Université de Sherbrooke

Sherbrooke, CA

• 1000 \$ Admission Scholarship

CONTACT

▼ Fmail

y BenMerSci

BenMerSci

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QUANTITATIVE **SKILLS**

Regression, Basic knowledge in different modelling techniques (RandomForest, SDM, JSDM)

PROGRAMMING SKILLS

Data analysis:

R. Julia

Data base:

SOLite (Basic knowledge)

Automation/reports:

Rmarkdown, Git, Bash, LaTeX

LANGUAGES

French Native English Level B2

Made with pagedown.

The source code is available at github.com/BenMerSci/cv.

Last updated on 2020-06-25.

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	-	RESEARCH EXPERIENCE	
2020		ATLAS - Research assistant Integrative Ecology Lab - Université de Sherbrooke • Formatting biodiversity occurrence data and populate the ATLAS database	Sherbrooke, CA
2020		KBA Canada - Research assistant Integrative Ecology Lab - Université de Sherbrooke • Literature review of species with status to build a case • Propose Key Biodiversity Areas for Quebec, Canada	Sherbrooke, CA
2020 2017		Tree swallow project - Undergraduate Internship and Research assistant Marc Bélisle, Fanie Pelletier and Dany Garant Labs - Université de Sherbrooke • Population survey and bird bandings • Genetic analysis Extraction & Dosage PCR • Nest inventory for parasites	Sherbrooke, CA
2019		Mangal – Undergraduate Intership Integrative Ecology Lab - Université de Sherbrooke • Formatting ecological networks data and populate the Mangal database through an AF	Sherbrooke, CA
2018		GRIL, Undergraduate Internship Yves Prairie, Beatrix Beisner and Paul Del Gorgio Labs – UQAM • Water sample analysis in laboratory • Spectrophotometry Spectrofluorometry Nutrient analysis Isotopic carbon analysis	♥ Montréal, CA
		TEACHING EXPERIENCE	
2020 2019		Tutor, peer support biology center Départament de biologie - Université de Sherbrooke • Helping new students with different biology courses	Sherbrooke, CA
	*	TRAINING	
2020		Data-driven ecological synthesis DDES summer school - Université de Montréal • Good practices in scientific computing • Data management Mathematical tools Data analysis tools Rreproducible science	♥ Remote
2020		Deep learning with Julia Short course - Ivado • Introduction to neural networks Julia machine learning Flux.jl	♀ Montréal, CA
2019		Biodiversity Modelling Summer school - Université de Sherbrooke • Theory and practice on different biodiversity modelling techniques • Statistics Differential equations Stochastic simulations Climate change models un	♥ Magog, CA certainty tracking

PUBLICATIONS

2020

- Environmental biases in the study of ecological networks at the planetary scale BioRxiv PrePrint (5)
 - Poisot T, Bergeron G, Cazelles K, Dallas T, Gravel D, Macdonald A, Mercier B, Violet C, Vissault S.

2019 • R package - rmangal

• Vissault S, Cazelles K, Bergeron G, Mercier B, Violet C, Gravel D, Poisot T (2019). *rmangal: An R package to interact with Mangal database*. R package version 2.0.0.

♣ SELECTED TALKS AND POSTERS

2020

Introduction to computational ecology
 Presentation to CÉGEP du Vieux Montréal students

Montréal, CA

• Preamble to computational ecology through the presentation of my honours undergraduate research project (Presentation)