

Benjamin Mercier

M.Sc. Student In Ecology

<  +  > Quantitative ecologist

EDUCATION

- To this day
|
2020
- **M.Sc. in Ecology - Integrative Ecology Lab**
Université de Sherbrooke - (4.00 / 4.3)  Sherbrooke, CA
 - Mecanistic predictive model of biomass flows in pairwise trophic interactions
 - **Microprogram in Scientific Interactions**
Université de Sherbrooke  Sherbrooke, CA
 - **B.Sc. in Ecology**
Université de Sherbrooke – (4.04 / 4.30)  Sherbrooke, CA
 - Undergraduate research project : « Structure of the reconstructed trophic networks of the terrestrial vertebrates of Quebec : an algorithmic approach (KNN) »
 - **Microprogram in Practical Ecology**
Université de Sherbrooke  Sherbrooke, CA
- 2023
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2020
- 2020
|
2016
- 2020
|
2016

WORK

- 2023
|
2022
- **Course demonstrator - Graduate 2e cycle**
Université de Sherbrooke  Sherbrooke, CA
 - Demonstrator BIO101
 - **Teachers assistant - Graduate 2e cycle**
Université de Sherbrooke  Sherbrooke, CA
 - BIO109 and BIO 500
 - **Research assistant - Graduate 2e cycle**
Université de Sherbrooke  Sherbrooke, CA
 - **Research assistant - Undergraduate 1er cycle**
Marc Bélisle and Dominique Gravel Labs  Sherbrooke, CA
 - Nest analysis, ATLAS Database and KBA
- 2023
|
2021
- 2022
- 2020
|
2019

INTERNSHIP

- 2021
- **KBA internship**
KBA Canada  Remote
 - Developing a Shiny application to create KBA summaries
 - **Mangal database**
Integrative Ecology Lab - Université de Sherbrooke  Sherbrooke, CA
 - Formatting ecological networks data and populate the Mangal database through an API
- 2019

CONTACT

 Email

 BenMerSci

 0000-0002-4104-9463

QUANTITATIVE SKILLS

Bayesian statistics, Data manipulation, Data visualization

PROGRAMMING SKILLS

Data analysis:
R, Stan

Database:
SQL - Postgres

Automation/reports:
Git, Markdown, LaTeX

LANGUAGES

French Native
English Level B2

Made with [pagedown](#).

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

Last updated on 2024-08-15.

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- 2018 ● **GRIL - UQAM**
 Yves Prairie, Beatrix Beisner and Paul Del Gorgio Labs 📍 Montreal, CA

 - Water sample analysis in laboratory
 - Spectrophotometry | Spectrofluorometry | Nutrient analysis | Isotopic carbon analysis
- 2018 ● **Bird surveys data analysis**
 Marc Bélisle and Marc-André Villard Labs - Université de Sherbrooke | UQAM 📍 Sherbrooke, CA

 - Nest inventory for parasites and photo analysis
- 2017 ● **Tree swallow project**
 Marc Bélisle, Fanie Pelletier and Dany Garant Labs – Université de Sherbrooke 📍 Sherbrooke, CA

 - Population survey and bird bandings
 - Genetic analysis | Extraction & Dosage | PCR
 - Nest inventory for parasites

VOLUNTEERING

- 2021 | 2019 ● **Tutor, peer support biology center**
 Département de biologie - Université de Sherbrooke 📍 Sherbrooke, CA

 - Helping new students with different biology courses

SELECTED TALKS AND POSTERS

- 2020 ● **Introduction to computational ecology**
 Presentation to CÉGEP du Vieux Montréal students (45 min talk) 📍 Montréal, CA

 - Preamble to computational ecology through the presentation of my honours undergraduate research project ([Presentation](#))

SCHOLARSHIP

- 2023 | 2022 ● **Training fellowship**
 BIOS2 📍 Sherbrooke, CA

 - 8 500 \$ Master Scholarship
- 2022 | 2021 ● **Quebec Graduate Scholarship-Master**
 FRQNT 📍 Sherbrooke, CA

 - 17 500 \$ Master Scholarship
- 2021 | 2020 ● **Canada Graduate Scholarship-Master**
 NSERC 📍 Sherbrooke, CA

 - 17 500 \$ Master Scholarship
- 2020 ● **Undergraduate scholarship for training in computational ecology**
 BIOS2 📍 Sherbrooke, CA

 - 2 000 \$ Undergraduate Scholarship

- 2017 ● **Undergraduate Student Research Award**
NSERC 📍 Sherbrooke, CA
• 4 500 \$ Undergraduate Scholarship
- 2016 ● **Admission Scholarship**
Université de Sherbrooke 📍 Sherbrooke, CA
• 1000 \$ Admission Scholarship



PUBLICATIONS

- 2023 ● **Graph embedding and transfer learning can help predict potential species interaction networks despite data limitations**
Methods in Ecology and Evolution - [doi](#)
• T Strydom, S Bouskila, F Banville, C Barros, D Caron, M J.Farrell, MJ Fortin, B Mercier, L J.Pollock, R Runghen, G V.Dalla Riva, T Poisot
- 2022 ● **Food web reconstruction through phylogenetic transfer of low-rank network representation**
Methods in Ecology and Evolution - [doi](#)
• T Strydom, S ouskila, F Banville, C Barros, D Caron, M J.Farrell, MJ Fortin, V Hemming, B Mercier, L J.Pollock, R Runghen, G V.Dalla Riva, T poisot
- 2021 ● **A roadmap towards predicting species interaction networks (across space and time)**
Philosophical Transactions of the Royal Society B [doi](#)
• T Strydom, MD Catchen, F Banville, D Caron, G Dansereau, P Desjardins-Proulx, NR Forero-Muñoz, G Higinio, B Mercier, A Gonzalez, D Gravel, L Pollock, T Poisot
- 2021 ● **Global knowledge gaps in species interaction networks data**
Journal of Biogeography [doi](#)
• T Poisot, G Bergeron, K Cazelles, T Dallas, D Gravel, A Macdonald, B Mercier, C Violet, S Vissault.
- 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.