





# Vincent Bellavance



Master Student

<  +  > Aspiring Eco-informatician | I like managing data

## EDUCATION

- M.Sc. in Ecology**  
Integrative Ecology Lab - Université de Sherbrooke  Sherbrooke, Canada  
• Biodiversity Distribution Index: a biodiversity indicator to monitor change in species distribution  
• Database management | Species distribution models | Interactive [ShinyApp](#)  
• [Bios<sup>2</sup>](#) Fellow
- Microprogram in Scientific Interactions**  
Université de Sherbrooke  Sherbrooke, Canada
- B.Sc. in Ecology**  
Université de Sherbrooke  Sherbrooke, Canada  
• Undergrade research project: Effets de la compétition du sapin baumier sur la migration de l'érable à sucre dans un contexte de changement climatique
- Microprogram in Practical Ecology**  
Université de Sherbrooke  Sherbrooke, Canada  
• Wildlife and vegetation identification, survey methods and site evaluation

## RESEARCH EXPERIENCE

- Research Professional**  
Integrative Ecology Lab - Université de Sherbrooke  Sherbrooke, Canada  
• From January to May and August to December  
• Database management | Data cleaning | Taxonomic validation
- Undergraduate Researcher**  
Integrative Ecology Lab - Université de Sherbrooke  Sherbrooke, Canada  
• Modelisation of the effect of the balsam fir on the maple sugar migration in a context of climate change

## TEACHING EXPERIENCE

- Teaching assistant**  
Université de Sherbrooke  Sherbrooke, Canada  
• BIO101 - Biometry

## CONTACT

 [Vincent.Bellavance.92](mailto:Vincent.Bellavance.92)

 [V\\_Bellavance](#)

 [VincentBellavance](#)

 0000-0002-3263-8784

## QUANTITATIVE SKILLS

Regression, Mathematical modelling, Random Forest, Hierarchical models, Bayesian statistics, Species distribution models

## PROGRAMMING

**Data analysis:** R, HPC

**Database:** PostgreSQL

**Automation/reports:** markdown, LaTeX, bash, GNU make

**Web:** HTML/CSS, ShinyApp,

**DevOps (CI/CD):** Git, Docker, GitHub Actions

## LANGUAGES

**French** Native

**English** Full Professional

Made with [pagedown](#).

The source code is available at [github.com/VincentBellavance/cv](https://github.com/VincentBellavance/cv).




Last updated on 2023-02-15.

 [Download a PDF of this CV](#)

- 2021 ● **Shiny workshop**  
Introduction to Shiny Apps - BIOS<sup>2</sup>  
• Workshop instructor 📍 Sherbrooke, Canada
- 2021 ● **Introduction to scientific programming**  
BIO109 - Département de biologie, Université de Sherbrooke  
• Teaching assistant 📍 Sherbrooke, Canada
- 2021 ● **Teaching assistant**  
Université de Sherbrooke  
• BIO109 - Introduction to scientific programming 📍 Sherbrooke, Canada

## 🌟 TRAINING

- 2022 ● **Maîtriser les systèmes de Calcul Canada**  
Short course - Calcul Quebec - Compute Canada  
• How to choose ressources | Analysing jobs | Using job arrays 📍 Sherbrooke, Canada
- 2022 ● **Biodiversity Modelling Summer School**  
Université de Sherbrooke 📍 Orford, Canada  
• Business intelligence principles | User characterization | Data model | Communication strategy
- 2021 ● **BIOS<sup>2</sup> Internship**  
Observatoire d'oiseaux de Tadoussac - Explos-Nature 📍 Grandes-Bergeronnes, Canada  
• Design a database to inject data on boreal owls banding  
• Make a R package to communicate with the database
- 2021 ● **Building R Packages**  
Workshop - BIOS<sup>2</sup> 📍 Sherbrooke, Canada  
• Functions | Writing tests and documentation | Share package on github
- 2021 ● **Training in Spatial Statistics**  
Workshop - BIOS<sup>2</sup> 📍 Sherbrooke, Canada  
• Point pattern analysis | Spatial correlation | Geostatistical models | Analysis of areal data
- 2021 ● **Biodiversity Modelling Summer School**  
Université de Sherbrooke 📍 Sherbrooke, Canada  
• Probabilities | Maximum likelihood | Bayesian modelling | Algorithms and computational methods
- 2021 ● **Discussion group on Joint Species Distribution Models**  
Université de Sherbrooke 📍 Sherbrooke, Canada  
• Based on: [Joint Species Distribution Modelling With Applications in R](#)
- 2020 ● **Making Websites with HUGO**  
Workshop - BIOS<sup>2</sup> 📍 Sherbrooke, Canada  
• General introduction to HUGO, a popular open source framework for building websites

- 2020 ● **Data Visualization**  
Workshop - BIOS<sup>2</sup>  Sherbrooke, Canada
  - General principles of visualization and graphic design | Techniques of tailored visualization
- 2020 ● **Science Communication**  
Workshop - BIOS<sup>2</sup>  Sherbrooke, Canada
  - Concept and tools that contribute to effective science communication
- 2020 ● **First Steps on Compute Clusters**  
Short course - Calcul Quebec - Compute Canada  Sherbrooke, Canada
  - How to use supercomputer | Tools to carry out first computations correctly and efficiently