

# Aymeric Oliveira-Xavier

PHD CANDIDATE

Université de Sherbrooke, Canada

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## Education

### PhD. Candidate, Ecology

UNIVERSITÉ DE SHERBROOKE

Sherbrooke, Canada

Sep. 2018 - Present

- Influence of the landscape on birds and bats communities in agroforestry cocoa plantations in the Zoque region, Mexico
- Community ecology | Landscape ecology | Predator-prey interactions | Metapopulation theory | Biodiversity modeling

### Master, Integrative biology

UNIVERSITÉ DE TOURS

Tours, France

Sep. 2014 - Nov. 2016

- Behavioral ecology, evolution and biodiversity

### BSc, Biology

UNIVERSITÉ DE TOURS

Tours, France

Sep. 2011 - Jun. 2014

- Biodiversity, ecology and evolution

## Experience

### Research assistant

UNIVERSITÉ DE SHERBROOKE

Sherbrooke, Canada

Jan. 2021 - Present

- Bioacoustic analysis | Complex statistical analysis | Modeling of ecological communities

### Teaching assistant

UNIVERSITÉ DE SHERBROOKE

Sherbrooke, Canada

Sep. 2018 - Present

### R / Shiny developer and data analyst

MINISTÈRE DES FORÊTS, DE LA FAUNE ET DES PARCS

Québec, Canada

Jun. 2022 - Aug. 2022

- Shiny app programming for managers to gather the databases of the MFFP bat project
- Analysis of demographic trends of bat populations in the province of Québec

### Research assistant

McGILL UNIVERSITY

Montréal, Canada

Mar. 2019

- Supervision of participatory workshops as part of the QCBS Chair in Conservation

### Employee at équipe verte de l'Université de Sherbrooke

UNIVERSITÉ DE SHERBROOKE

Sherbrooke, Canada

Sep. 2020 - Dec. 2020

- Organize and work towards the implementation and application of the Uds policy concerning ecology and sustainable development

### Falconer

CRC FAUCONNERIE

Hommes, France

2014 - 2017

- Educational intervention | Handling and care of raptors | Travelling show

## Training

### Biodiversity modeling, summer school

BIOS<sup>2</sup> | UNIVERSITÉ DE SHERBROOKE

Orford, Canada

Aug. 2019

- Theory and practice on different biodiversity modeling techniques
- Statistics | Differential equations | Stochastic simulations | Climate change models | Uncertainty tracking

### Biodiversity changes and data visualization, summer school

BIOS<sup>2</sup> | UNIVERSITÉ DE SHERBROOKE

Orford, Canada

Aug. 2020

- Develop analytical pipelines from open data
- Efficient design conceptualization
- Building interactive web interface with ShinyR
- Essential Biodiversity Variables (EBVs) | Indicators of biodiversity changes

### QCBS R Symposium

QCBS

Gault Nature Reserve, Canada

Oct. 2019

- Effective and reproducible science | Community modeling | Programming | Rmarkdown | Github

## Microprogram in sustainable development

UNIVERSITÉ DE TOURS

Tours, France

2014

- Threatened species and biodiversity | Waste management | Biodiversity and urbanization

## Google digital marketing certification

GOOGLE DIGITAL ACTIVE TOURS

Chambray-les-Tours, France

Mar. 2018

- Analytics and data insights | Business strategy | Content marketing | Email marketing | SEM | SEO | Social media | Web optimisation

## Skills

- **Data analysis & programming** R | RMarkdown | LaTeX | ShinyApp | Figma
- **Languages** French (Native) | English (Professional) | Spanish (Professional)
- **Bioacoustic analysis** Kaleidoscope Pro | Audition
- **Geospatial analysis** QGIS | Fragstats
- **Other softwares** Office suite | Photoshop | Premiere Pro

## Extracurriculum activity

### BIOS<sup>2</sup> communication committee

BIOS<sup>2</sup>

Sherbrooke, Canada

2021 - 2022

- Create and manage the distribution of the BIOS<sup>2</sup> program newsletters and the diffusion of information related to the program on social networks

### QCBS student member

QCBS

Montréal, Canada

Sep. 2019 - Present

### SEPANT member

SEPANT

Chambray-lès-Tours, France

2016 - Present

- Realization of wildlife inventory and scientific vulgarization workshops

### IUAF member

INTERNATIONAL UNION FOR AGROFORESTRY

Praha-Suchdol, Czech Republic

2022 - Present

### ESA student member

ECOLOGICAL SOCIETY OF AMERICA

Washington, USA

2022 - Present

### UdS Climate Change and Environment Student Circle

UNIVERSITÉ DE SHERBROOKE

Sherbrooke, Canada

2020 - Present

- Reflections and discussions around current and future UdS environmental policies and prospects for improvements

## Grants & fundings

### BIOS<sup>2</sup> Fellows Program

10 500 \$

2021

### BIOS<sup>2</sup> grant for mobility and communication

2 000 \$

Aug. 2022

### MEES grant

5 000 \$

Jan. 2021

### Idea Wild grant

760 \$

Mar. 2020

## Honors & awards

### Excellence awards, QCBS

2021

### Excellence awards, QCBS

2022

## Publications

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1. San-Jose, L. M., Séchaud, R., Schalcher, K., Judes, C., Questiaux, A., Oliveira-Xavier, A., Gémard, C., Almasi, B., Béziers, P., Kelber, A., Amar, A., & Roulin, A. (2019). Differential fitness effects of moonlight on plumage colour morphs in barn owls. *Nature Ecology & Evolution*, 3(9), 1331–1340. <https://doi.org/10.1038/s41559-019-0967-2>