



Valentin Lucet

ECOLOGIST · RESEARCH SOFTWARE ENGINEER

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*As an ecologist, I am interested in complex working landscapes, social ecological systems, and interdisciplinary approaches.
Passionate about open and reproducible science, I develop tools for researchers and managers, and teach computational methods.*

Education

M.Sc. in Landscape Ecology

GONZALEZ LAB, MCGILL UNIVERSITY

Montreal, QC

2018 - 2020

- **Thesis:** Integrating land use and land cover change simulations, stakeholder understanding of the landscape, and connectivity modelling: a case study in the Montérégie region in southern Québec
- *Connectivity and landscape change modelling & Stakeholder workshop*

B.Sc. (Hons) in Biology (Maj.), Anthropology (Min.)

GUICHARD LAB, MCGILL UNIVERSITY

Montreal, QC & Barbados

2014 - 2018

- **Thesis:** Grazing preferences of coral reefs fishes | *Fieldwork with the University of the West Indies*

French Baccalaureate Diploma

GRADE: 17.5/20 - MENTION TRÈS BIEN / BAC S (SPÉ BIO)

France

2011 - 2014

Skills

| | |
|--------------------|---|
| Programming | R (advanced) / Python, Julia, Bash, SQL, Matlab (familiar) |
| GIS tools | GDAL, GRASS, QGIS, ArcGIS (proficient) - PostGIS (familiar) |
| Other | Git & GitHub (incl. pages), HPCE (slurm), Docker, Markdown, LaTeX, Hugo |
| Languages | French (native) - English (fluent) - Spanish (basics) |

Experience

Research Software Developer

CONCORDIA UNIVERSITY - PEDERSEN QUANTITATIVE FISHERIES ECOLOGY LAB

Montreal, QC

2021 - Present

- Development of the **sspm** and **csdm** R packages, workshop development and delivery with DFO
- Grad student mentoring: teaching of skills for open and reproducible science

Data Scientist

ENVIRONMENT AND CLIMATE CHANGE CANADA · LANDSCAPE SCIENCE UNIT

QC

2021 - 2021

- Contributions to R packages **pfocal** and **LSTDConnect** (currently private)
- Contributions to a Canada-wide connectivity analysis (in prep)

Landscape ecologist

APEX RESOURCES MANAGEMENT SOLUTIONS

QC

2020 - 2021

- Projects: carbon cycle models, epidemiological models, **STSIM** development and maintenance

CONTRACTS & CONSULTING

APEX Resources Management Solutions

R DEVELOPPER

QC

2019 - 2020

- Improvement and CRAN submission for the R package **Rsyncrosim**

MELCC – Ministère de l'Environnement

REPORTER

QC
2019

- Contributions to an analysis of ecological connectivity for the Saint Lawrence Lowlands and translation to French

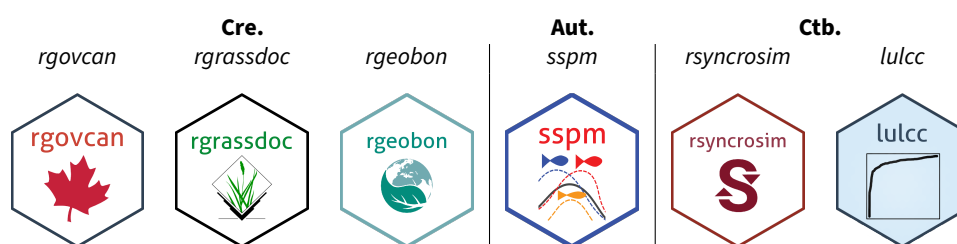
MFFP – Ministère des Forêts, de la Faune et des Parcs

REPORTER

QC
2019

- Contributions to a report on ecological connectivity in the northwest America as part of the working group related to the 40-3 resolution

Software



Teaching

WORKSHOPS

R Package Development for Research: an Introduction

OFFERED AT THE CSEE 2021 MEETING

Online
2020

Version Control with RStudio and the Command Line

OFFERED AT MCGILL AND CONCORDIA UNIVERSITY

Online/In person
2019-20

A Very Short Introduction to Compute Canada Resources

OFFERED AT CONCORDIA UNIVERSITY

Online
2021

SQL for Ecologists with R and Tidyverse Equivalent

OFFERED AT CONCORDIA UNIVERSITY

Online
2021

ASSISTANTSHIPS

2019 **Conservation Biology**, Tutorials, lectures and grading
2018-19 **Animal Diversity**, Labs and grading
2017-20 **Biometry**, Tutoring

McGill University
McGill University
McGill University

Honors & Awards

2021 **QCBS Learning and Development Award**,

\$150

2020 **QCBS Excellence Travel Award**,

Waived
(COVID-19)

2019 **FRQNT (Fonds de Recherche du Québec - Nature et Technologie) M.Sc. Bursary**,

\$17,5k

2018 **Frank Rigler Prize in Ecology**,

\$785

2017 **SURA (Student Undergraduate Research Award)**,

\$6,725

Volunteering

Redpath Museum

McGill University

FUNDRAISING AMBASSADOR

2015 - 2017

- Seeds of Change Plesiosaur project - \$13,000 raised
- Seeds of Change Cutting Edge Lectures project - \$2,850 raised

Redpath Museum Student Society

McGill University

VP COMMUNICATIONS, VP EVENTS, VP

2015-2018

ARCHELON (Sea Turtle Protection Society of Greece)

Crete

MORNING SURVEY VOLUNTEER FOR A TOTAL OF 5 MONTHS

2015, 2016

Abouheif Lab

McGill University

UNDERGRADUATE VOLUNTEER

2015-2016

WWF Quebec - Project “Ours Polaire sur Glaces Ephémères

Montreal, QC

PUBLIC AWARENESS VOLUNTEER

2015

McGill bird observatory

Montreal, QC

MORNING SURVEY VOLUNTEER

2014

Editions Heloise D’Ormesson

Paris, France

INTERN - MANUSCRIPT PROOF READER

2012

Publications

THESIS

Integrating land use and land cover change simulations, stakeholder understanding of the landscape, and connectivity modelling: a case study in the Montérégie region in southern Québec, 2021

PRESENTATIONS

The sspm R package: spatial surplus production models for the management of northern shrimp fisheries

Annual Meeting of the Quebec Center for Biodiversity Science, 2021

Integrating land use and land cover change simulations and connectivity modeling: a case study in the Montérégie region in southern Québec

Annual Meeting of the International Association for Landscape Ecology - North America chapter (IALE-NA), 2020

Intégrer des simulations de changements d'utilisation des sols et des modèles de connectivité: un exemple en Montérégie dans le sud du Québec

Annual Meeting of the Quebec Center for Biodiversity Science, 2019

Differences in habitat use between two parrotfish grazers modulates the resilience of Caribbean coral reefs

Annual Meeting of the Quebec Center for Biodiversity Science, 2018

REPORTS

Annexe-Modélisation de la connectivité de l'habitat terrestre dans les Basses-Terres du Saint-Laurent selon différents scénarios de changements climatiques et d'occupation des sols

Bronwyn Rayfield, Guillaume Larocque, Kyle T Martins, Valentin Lucet, Colin Daniel, Andrew Gonzalez

MELCC, 2021

Changing terrestrial habitat connectivity within the St. Lawrence Lowlands under scenarios of climate and landcover change

Bronwyn Rayfield, Guillaume Larocque, Kyle T. Martins, Valentin Lucet Lucet, Colin Daniel, Andrew Gonzalez

MELCC, 2021

A review of ecological connectivity analysis in the Region of Resolution 40-3

Alex Arkilanian, Guillaume Larocque, Valentin Lucet, Deanna Schrock, Célia Denépoux, Andrew Gonzalez

MFFP, 2020