

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

Montreal, QC

GONZALEZ LAB, MCGILL UNIVERSITY

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.)

Montreal, QC & Barbados

GUICHARD LAB, MCGILL UNIVERSITY

2014 - 2018

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

French Baccalaureate Diploma

France

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

2011 - 2014

Skills

Programming R (advanced) / Python - Julia - Bash - SQL - Matlab (familiar)
GIS tools GDAL - GRASS - QGIS - ArcGIS - PostGIS
Other Git - Markdown - LaTeX - Hugo
Languages French (native) - English (fluent) - Spanish (basics)

Experience

Research Software Developer

Montreal, QC

CONCORDIA UNIVERSITY - PEDERSEN QUANTITATIVE FISHERIES ECOLOGY LAB

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

QC

ENVIRONMENT AND CLIMATE CHANGE CANADA · LANDSCAPE SCIENCE UNIT

2021 - 2021

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

Landscape ecologist

QC

APEX RESOURCES MANAGEMENT SOLUTIONS

2020 - 2021

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

CONTRACTS & CONSULTING

APEX Resources Management Solutions

QC

R DEVELOPPER

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

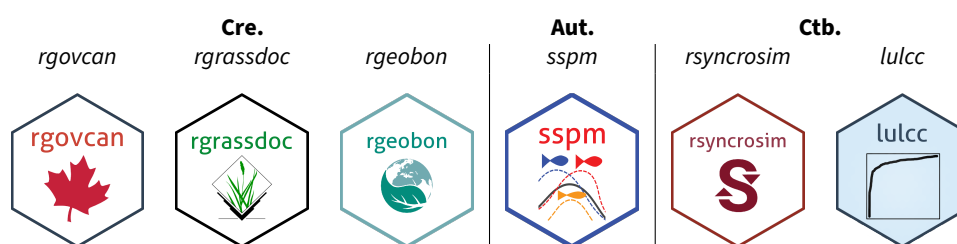
MFFP – Ministère des Forêts, de la Faune et des Parcs

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, 2020

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

Publications

JOURNAL ARTICLES

Incentive-based resource assignment and regulation for collaborative cloud services in community networks

Amin M Khan, Ümit C. Büyüksahin, Felix Freitag

Journal of Computer and System Sciences 81.8 (Dec. 2015) pp. 1479–1495. 2015

Cloud services in the Guifi.net community network

Mennan Selimi, Amin M Khan, Emmanouil Dimogerontakis, Felix Freitag, Roger Pueyo Centelles

Computer Networks 93.P2 (Dec. 2015) pp. 373–388. 2015

CONFERENCE PROCEEDINGS

Prototyping Incentive-Based Resource Assignment for Clouds in Community Networks

Amin M Khan, Umit Cavus Buyuksahin, Felix Freitag

28th IEEE International Conference on Advanced Information Networking and Applications (AINA 2014), 2014, Victoria, Canada