Valentin Lucet

ECOLOGIST · RESEARCH SOFTWARE ENGINEER

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vlucet | valentin-lucet | VLucet | V. Lucet

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 - PostGIS
Other	Git - 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
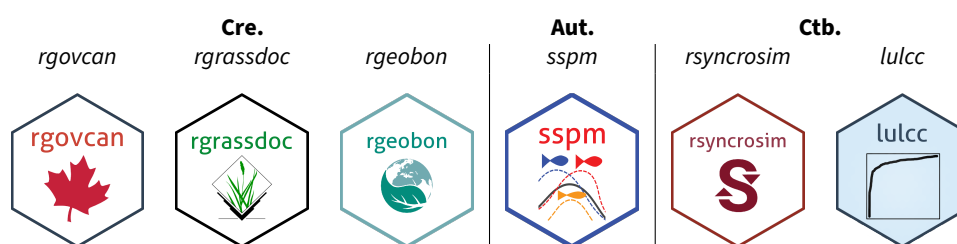
MFFP – Ministère des Forêts, de la Faune et des Parcs

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

	Cre.		**Aut.**	**Ctb.**	
rgovcan	*rgrassdoc*	*rgeobon*	*sspm*	*rsyncrosim*	*lulcc*

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	*McGill University*
2018-19	**Animal Diversity**, Labs and grading	*McGill University*
2017-20	**Biometry**, Tutoring	*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*

Presentation

DevFest Seoul by Google Developer Group Korea
Seoul, S.Korea

PRESENTER FOR <HOSTING WEB APPLICATION FOR FREE UTILIZING GITHUB, NETLIFY AND CLOUDFLARE>
Nov. 2017

- Introduced the history of web technology and the JAM stack which is for the modern web application development.
- Introduced how to freely host the web application with high performance utilizing global CDN services.

6th CodeEngn (Reverse Engineering Conference)
Seoul, S.Korea

PRESENTER FOR <DEFCON 20TH : THE WAY TO GO TO LAS VEGAS>
Jul. 2012

- Introduced CTF(Capture the Flag) hacking competition and advanced techniques and strategy for CTF

6th Hacking Camp - S.Korea
S.Korea

PRESENTER FOR <METASPLOIT 101>
Sep. 2012

- Introduced basic procedure for penetration testing and how to use Metasploit

Writing

A Guide for Developers in Start-up
Facebook Page

FOUNDER & WRITER
Jan. 2015 - PRESENT

- Drafted daily news for developers in Korea about IT technologies, issues about start-up.

AhnLab
S.Korea

UNDERGRADUATE STUDENT REPORTER
Oct. 2012 - Jul. 2013

- Drafted reports about IT trends and Security issues on AhnLab Company magazine.