

Valentin Lucet

ECOLOGIST · RESEARCH SOFTWARE ENGINEER

☎ (+1) 438-832-5167 | ✉ Valentin.lucet@gmail.com | 🏠 vlucet.github.io

📄 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

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

DevOps AWS, Docker, Kubernetes, Rancher, Vagrant, Packer, Terraform, Jenkins, CircleCI

Back-end Koa, Express, Django, REST API

Front-end Hugo, Redux, React, HTML5, LESS, SASS

Programming Node.js, Python, JAVA, OCaml, LaTeX

Languages Korean, English, Japanese

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

Honors & Awards

INTERNATIONAL

2018	Finalist , DEFCON 26th CTF Hacking Competition World Final	<i>Las Vegas, U.S.A</i>
2017	Finalist , DEFCON 25th CTF Hacking Competition World Final	<i>Las Vegas, U.S.A</i>
2014	Finalist , DEFCON 22nd CTF Hacking Competition World Final	<i>Las Vegas, U.S.A</i>
2013	Finalist , DEFCON 21st CTF Hacking Competition World Final	<i>Las Vegas, U.S.A</i>
2011	Finalist , DEFCON 19th CTF Hacking Competition World Final	<i>Las Vegas, U.S.A</i>
2012	6th Place , SECUINSIDE Hacking Competition World Final	<i>Seoul, S.Korea</i>

DOMESTIC

2015	3rd Place , WITHCON Hacking Competition Final	<i>Seoul, S.Korea</i>
2017	Silver Prize , KISA HDCON Hacking Competition Final	<i>Seoul, S.Korea</i>
2013	Silver Prize , KISA HDCON Hacking Competition Final	<i>Seoul, S.Korea</i>
2013	2nd Award , HUST Hacking Festival	<i>S.Korea</i>
2010	3rd Award , HUST Hacking Festival	<i>S.Korea</i>
2012	3rd Award , Holyshield 3rd Hacking Festival	<i>S.Korea</i>
2011	2nd Award , Holyshield 3rd Hacking Festival	<i>S.Korea</i>
2011	5th Place , PADOCON Hacking Competition Final	<i>Seoul, S.Korea</i>

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.