

Kevin Cazelles

Nationality: french

🏠 90 Queen St
N1E 4R8 Guelph
ON, Canada

☎ +33 6 38 45 42 79

✉ kevin.cazelles@gmail.com

🌐 <http://kevincazelles.fr>

🌐 KevCaz

OrCID [0000-0001-6619-9874](https://orcid.org/0000-0001-6619-9874)

French: mother tong

English: fluency

Portugese: fluency

German: beginner

Chinese: beginner

Phd in theoretical ecology Agricultural Engineer

Scientific Programming

■■■■■ R

■■■■■ C/C++

■■■■■ Matlab/Octave

■■■■■ Python

■■■■■ Julia

■■■■■ Java

■■■■■ Sage

■■■■■ Bash

■■■■■ UNIX

Web and Document Preparation

■■■■■ HTML/CSS

■■■■■ Javascript

■■■■■ PostgreSQL

■■■■■ YAML

■■■■■ Markdown

■■■■■ Latex

■■■■■ Inkscape

■■■■■ Microsoft Office

■■■■■ LibreOffice

🎓 Education

2012-2016 Phd Thesis. *Influence of biotic interactions on the geographic distribution of species.*
Université du Québec À Rimouski, Canada / Université de Montpellier, France (Joint PhD).
Doctor of Philosophy in Ecology (grade: Excellent)

2008–2012 Studies in Agricultural Engineering and M.Sc, Ecology and Evolution
AgroParisTech, Paris, France
Diploma of Agronomy Engineer and Master of Science in Ecology and Evolution

📈 Experience

Since June 2017 McCann Lab, University of Guelph
Guelph ON, Canada
Post-doctoral fellow: theoretical investigations to build an energetic theory of island biogeography.

Summer 2012 Laboratoire Ecologie et Evolution, Ecole Normale Supérieure
Paris, France
Research Professional, working on wavelets: statistical testing, code in C and application to time series of dengue in Southern Asia.

Early 2012 Institut des Sciences de l'Evolution, Université de Montpellier
Paris, France
Four months' training period, working on species distribution model and biotic interactions.

2011 Laboratório de Ecologia Evolutiva e Biodiversidade, Universidade Federal de Minas Gerais
Belo Horizonte, Brazil
Six months' training period, working on herbaceous plant communities in Cerrado: phenology and germination.

2009 SIMBIOS Centre, Abertay University
Dundee, United Kingdom
Six months' training period, working on modelling fungal growth dynamics in a realistic soil environment.

Grants and awards

2017	ACFAS award for the best joint PhD France-Canada (French laureate) 1,500C\$
2016	Grant from the FRQNT (Fonds de Recherche du Québec Nature et Technologies) 20,000C\$/year
2016	Excellence awards of the Quebec Centre for Biodiversity Science (QCBS) 1,500C\$
2015	Award for the second best oral presentation of the QCBS annual meeting 150C\$
2015–2016	Grant from the Frontenac program (mobility program for joint Phd between France and Québec) 6,000C\$/year
2012–2015	Grant from the Ministry of Higher Education and Research of France 24 000€\$/year
2012–2015	Grant from the FRQNT 4,000C\$/year

Teaching

2017	Centre de la Science de la Biodiversité du Québec (CSBQ) (3 days) <i>Instructor in a meta-analyses workshop.</i>
2017	University of Sherbrooke (5 days) <i>Instructor in the summer school “Bayesian Statistics for Ecologists”.</i>
2016	Quebec Centre For Biodiversity Science (2 days) <i>Organizing a two-days event on data vizualization in biodiversity science for graduate students.</i>
2014–2016	Université du Québec à Rimouski (16h/year) <i>Presenter for the QCBS R workshop series.</i>
2014–2015	Université du Québec à Rimouski (1 day/year) <i>Advanced R course on data visualization and graphics editing.</i>
2013–2015	Université de Montpellier (64h/year) <i>Practical course for first year undergraduates in developmental biology.</i>
2014	Universidade Federal de Minas Gerais (1 day) <i>Advanced R course on map editing.</i>

Articles published in peer-reviewed journal

1. Legagneux P., Casajus N., **Cazelles K.**, Chevallier C., Chevrinai M., Guéry L., Jacquet C., Jaffré M., Naud M., Noisette F., Ropars P., Vissault S., Archambault P., Bêty J., Berteaux D., Gravel D., 2018. Our house is burning: Discrepancy in climate change vs. Biodiversity coverage in the media as compared to scientific literature. *Frontiers in Ecology and Evolution*, 5():
<https://doi.org/10.3389%2Ffevo.2017.00175>
2. Kopelke J., Nyman T., **Cazelles K.**, Gravel D., Vissault S., Roslin T., 2017. Food-web structure of willow-galling sawflies and their natural enemies across europe. *Ecology*, ():
<https://doi.org/10.1002%2Fecy.1832>
3. **Cazelles K.**, Mouquet N., Mouillot D., Gravel D., 2016. On the integration of biotic interaction and environmental constraints at the biogeographical scale. *Ecography*, 39(10):921-931.
<http://dx.doi.org/10.1111/ecog.01714>
4. **Cazelles K.**, Araújo M., Mouquet N., Gravel D., 2015. A theory for species co-occurrence in interaction networks. *Theoretical Ecology*, 9(1):39-48.
<https://doi.org/10.1007%2Fs12080-015-0281-9>

5. Poisot T., Cirtwill A., **Cazelles K.**, Gravel D., Fortin M., Stouffer D., 2015. The structure of probabilistic networks. *Methods Ecol Evol*, ():n/a-n/a.
<http://dx.doi.org/10.1111/2041-210x.12468>
6. Stradic S., Silveira F., Buisson E., **Cazelles K.**, Carvalho V., Fernandes G., 2015. Diversity of germination strategies and seed dormancy in herbaceous species of campo rupestre grasslands. *Austral Ecology*, 40(5):537-546.
<http://dx.doi.org/10.1111/aec.12221>
7. Cazelles B., **Cazelles K.**, 2014. Major urban centers have weak influence on the timing of dengue epidemics in southeast asia. *International Journal of Infectious Diseases*, 21():217.
<http://dx.doi.org/10.1016/j.ijid.2014.03.873>
8. Cazelles B., **Cazelles K.**, Chavez M., 2013. Wavelet analysis in ecology and epidemiology: Impact of statistical tests. *Journal of The Royal Society Interface*, 11(91):20130585-20130585.
<http://dx.doi.org/10.1098/rsif.2013.0585>
9. **Cazelles K.**, Otten W., Baveye P., Falconer R., 2013. Soil fungal dynamics: Parameterisation and sensitivity analysis of modelled physiological processes, soil architecture and carbon distribution. *Ecological Modelling*, 248():165-173.
<http://dx.doi.org/10.1016/j.ecolmodel.2012.08.008>

In Preparation / Submitted / Accepted articles

1. Albouy C., Archambault P., Appeltans W., Araújo M., **Cazelles K.**, Cirtwill A., Fortin M., Leroux S., Pelissier L., Poisot T., Stouffer D., Wood S., Gravel D., 2018. The marine food web is globally connected. *submitted*.
2. Galiana N., Lurgi M., Claramunt B., Fortin M., Leroux S., **Cazelles K.**, Gravel D., Montoya J., 2017. The spatial scaling of species interaction networks. *accepted*.
3. **Cazelles K.**, Albouy C., Baiser B., Dalsgaard B., Farwig N., Lehmann L., Mouquet N., Pelissier L., Svenning J., Talluto M., Thuillier W., Gravel D., 2018. Do interacting species co-occur differently from not-interacting species?. *in prep*.
4. Solarik K., **Cazelles K.**, Bergeron Y., Messier C., Gravel D., 2018. Are priority effects preventing range shifts of temperate tree species into the boreal forest under rapid climate change?. *in prep*.
5. **Cazelles K.**, Gravel D., 2018. Towards a metabolic theory of island biogeography.. *in prep*.
6. Wheeler H., Berteaux D., Furgal C., **Cazelles K.**, Yoccoz N., Grémillet D., 2018. From monitoring to desired outcomes: Network analysis identifies key needs for the integration of socio-ecological outcomes in arctic wildlife monitoring. *submitted*.

Reviewer for the following peer-reviewed journals

Ecography, Ecology, Ecology Letters, Global Ecology and Biogeography, Journal of Animal Ecology, Journal of Vegetation Science, Methods in Ecology and Evolution, Proceedings of the Royal Society B, Theoretical Ecology,

Science popularization

1. **Cazelles K.**, 2014. La Biodiversité en territoire isolée. *Accromath*. <http://accromath.uqam.ca/2014/02/la-biodiversite-en-territoires-isoles/>