

# Kevin Cazelles

**Nationality:** french

🏠 12 avenue Lavoisier  
92500 Rueil-Malmaison  
France

☎ +33 6 38 45 42 79

✉ [kevin.cazelles@gmail.com](mailto:kevin.cazelles@gmail.com)

🌐 <http://kevincazelles.fr>

🌐 [KevCaz](#)

**French:** mother tong

**English:** fluency

**Portugese:** fluency

**German:** beginner

**Chinese:** beginner

## Phd in theoretical ecology Agricultural Engineer

### Scientific Programming

■■■■■ R

■■■■□ C/C++

■■■□□ Matlab

■□□□ 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

---

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

---

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

---

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. 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*, 38(1):42-49.  
<http://doi.wiley.com/10.1002/ecy.1832>
2. Massol F., Dubart M., Calcagno V., **Cazelles K.**, Jacquet C., Kéfi S., Gravel D., 2017. Island Biogeography of Food Webs. *Advances in Ecological Research*, 56():183-262.  
<http://link.springer.com/10.1007/s12080-015-0281-9>
3. **Cazelles K.**, Araújo M., Mouquet N., Gravel D., 2016. A theory for species co-occurrence in interaction networks. *Theoretical Ecology*, 9(1):39-48.  
<http://link.springer.com/10.1007/s12080-015-0281-9>
4. **Cazelles K.**, Mouquet N., Mouillot D., Gravel D., 2015. On the integration of biotic interaction and environmental constraints at the biogeographical scale. *Ecography*, (October):n/a-n/a.  
<http://doi.wiley.com/10.1111/ecog.01714>
5. Poisot T., Cirtwill A., **Cazelles K.**, Gravel D., Fortin M., Stouffer D., 2016. The structure of probabilistic networks. *Methods in Ecology and Evolution*, 7(3):303-312.  
<http://biorxiv.org/lookup/doi/10.1101/016485> <http://doi.wiley.com/10.1111/2041-210X.12468>
6. Le 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://doi.wiley.com/10.1111/aec.12221>
7. 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://rsif.royalsocietypublishing.org/cgi/doi/10.1098/rsif.2013.0585>
8. **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.

## **In Preparation / Submitted / Accepted articles**

---

1. Albouy C., Archambault P., Appeltans W., Araujo M., **Cazelles K.**, Cirtwill A., Galizana N., Fortin M., Leroux S., Pelissier L., Poisot T., Stouffer D., Wood S., Gravel D., 2017. The marine food web is globally connected. *in prep.*
2. **Cazelles K.**, Albouy C., Baiser B., Dalsgaard B., Farwig N., Lehmann J. L., Mouquet N., Pelissier L., Svenning J., Talluto M., Thuillier W., Gravel D., 2017. Do interacting species co-occur differently from not-interacting species?. *in prep.*
3. **Cazelles K.**, Gravel D., 2017. Towards a metabolic theory of island biogeography?. *in prep.*
4. 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. *accepted in Ecology (data paper).*

## **Reviewer for the following peer-reviewed journals**

---

*Ecography, 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/>