

Kevin Cazelles

Theoretical ecologist

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🔗 [KevCaz](#)

French: mother tongue
English: fluency
Portuguese: fluency
German: beginner
Chinese: beginner

Scientific Programming

■■■■■ R	■□□□□ Julia
■■■■■ C/C++	■□□□□ Java
■■■■■ Matlab	■■■■■ HTML/CSS
■■■■■ Sage	■■■■■ Markdown
■■■■■ Bash	■■■■■ PostgreSQL
■■■■■ Python	

Document Preparation

■■■■■ Latex	■■■■■ Microsoft Office Suite
■■■■■ Beamer	■■■■■ LibreOffice Suite
■■■■■ Remark	
■■■■■ Inkscape	

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 ecological 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, UK
Six months' training period, working on modelling fungal growth dynamics in a realistic soil environment.

Education

- 2012- **Phd Thesis.** *Integration of ecological interaction in species distribution models.*
Université du Québec À Rimouski, CANADA; Université de Montpellier, FRANCE (Joint PhD).
- 2008–2012 **M.Sc Agronomy and Ecology**
AgroParisTech, Paris, FRANCE
Diploma of Agronomy Engineer and Master degree in Ecology

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
1,500C\$

2012-2015	Grant from the Ministry of Higher Education and Research of France 20,000C\$/year
2015-2016	Grant from the Frontenac program (mobility program for joint Phd between France and Québec) 6,000C\$/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 vizulation 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. **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>
2. **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>
3. 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>
4. 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>
5. 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>
6. **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://linkinghub.elsevier.com/retrieve/pii/S030438001200419X>

Science popularization

1. **Cazelles K.**, 2014. La Biodiversité en territoire isolée. *Accromath*. [Available online](#)

Reviewer for the following peer-reviewed journals:

Ecography, *Ecology Letters*, *Global Ecology and Biogeography*, *Proceedings of the Royal Society B*, *Theoretical Ecology*.