Kevin Cazelles

Nationality: french

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KevCaz

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French: mother tong English: fluency Portugese: fluency German: beginner Chinese: beginner

Phd in theoretical ecology Agricultural Engineer

Scientific Programming

■■■■■ R	■□□□□ Java
■■■□ C/C++	■■□□□ Sage
■■■□□ Matlab/Octave	■■■□□ Bash
■■□□□ Python	
■■ □□□ Julia	

Web and Document Preparation

■■■□□ HTML/CSS	■■■□□ Inkscape
■■■□□ Javascript	■■■■ Microsoft Office
■■■■ Markdown	■■■■ LibreOffice
■■■□□ Jekyll Hugo	

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).

■■■■□ Latex

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 McCann Lab, University of Guelph

2017 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.

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2017	ACFAS award for the best joint PhD France-Canada (French laureate) 1,500\$ CA
2016	Grant from the FRQNT (Fonds de Recherche du Québec Nature et Technologies) 20,000\$ CA
2016	Excellence awards of the Quebec Centre for Biodiversity Science (QCBS) 1,500\$ CA
2015	Award for the second best oral presentation of the QCBS annual meeting 150\$ CA
2015–2016	Grant from the Frontenac program (mobility program for joint Phd between France and Québec) 6,000\$ CA/year
2012–2015	Grant from the Ministry of Higher Education and Research of France 24 000€\$/year
2012–2015	Grant from the FRQNT 4,000\$ CA/year
	* Teaching
2018	Institut de recherche en biologie végétale, Montreal (3 hours) Use R as a geographic information system
2017	Centre de la Science de la Biodiversité du Québec (CSBQ) (3 days) Instructor in a meta-analyses workshop.
2017	University of Sherbrooke (5 days) Instructor in the summer school "Bayesian Statistics for Ecologists".
2016	Quebec Centre For Biodiversity Science (2 days) Organizing a two-days event on data vizualization in biodiversity science for graduate students.
2014–2016	Université du Québec à Rimouski (16h/year) Presenter for the QCBS R workshop series.
2014-2015	Université du Québec à Rimouski (1 day/year)

2014–2015 Université du Québec à Rimouski (1 day/year)

Advanced R course on data visualization and graphics editing.

2013–2015 Université de Monpellier (64h/year)

Practical course for first year undergraduates in developmental biology.

2014 Universidade Federal de Minas Gerais (1 day)

Advanced R course on map editing.

Articles published in peer-reviewed journal

 Wheeler H., Berteaux D., Furgal C., Cazelles K., Yoccoz N., Grémillet D., 2018. Identifying key needs for the integration of social-ecological outcomes in arctic wildlife monitoring. Conservation Biology.

https://doi.org/10.1111%2Fcobi.13257

- Geschke J., Cazelles K., Bartomeus I., 2018. Rcites: An r package to access the cites speciesplus database. Journal of Open Source Software. http://doi.org/10.21105/joss.01091
- 3. Galiana N., Lurgi M., Claramunt-López B., Fortin M., Leroux S., **Cazelles K**., Gravel D., Montoya J., 2018. The spatial scaling of species interaction networks. *Nature Ecology & Evolution*. https://doi.org/10.1038%2Fs41559-018-0517-3
- 4. MacDougall A., Harvey E., McCune J., Nilsson K., Bennett J., Firn J., Bartley T., Grace J., Kelly J., Tunney T., McMeans B., Matsuzaki S., Kadoya T., Esch E., **Cazelles K**., Lester N., McCann

- K., 2018. Context-dependent interactions and the regulation of species richness in freshwater fish. *Nature Communications* **9**(1).
- https://doi.org/10.1038%2Fs41467-018-03419-1
- Legagneux P., Casajus N., Cazelles K., Chevallier C., Chevrinais 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
- 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%2Fecv.1832
- 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
- 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
- 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
- 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
- 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
- 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
- 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

- Albouy C., Archamabult 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. **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*.
- 3. 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*.
- 4. Cazelles K., Gravel D., 2018. Towards a metabolic theory of island biogeography.. in prep.

Q Reviewer for the following peer-reviewed journals

American Naturalist, Ecography, Ecology, Ecology Letters, Environment, Development and Sustainability, Global Ecology and Biogeography, Journal of Animal Ecology, Journal of Vegetation Science, Methods in Ecology and Evolution, PeerJ, Population Ecology, Proceedings of the Royal Society B, Theoretical Ecology.

</> Code

graphicsutils - a set of graphical functions. (R package).

• https://github.com/inSileco/graphicsutils

inSilecoMisc - a set of miscellenous functions. (R package).

citesR - a R client for the CITES Species+ API. (R package).

O ibartomeus/citesr

burningHouse - code to reproduce the analysis by Legagneux et al. (2018) DOI: 10.3389/fevo.2017.00175. (reproducible science).

♠ KevCaz/burningHouse Zenodo: 1134897

Science popularization

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

Media

Ia Presse (2018, FR).

http://www.lapresse.ca/environnement/climat/201803/06/01-5156225-la-biodiversite-dans-lombre-deschangements-climatiques.php

Anthropocenemagazine (2018, ENG).

http://www.anthropocenemagazine.org/2018/02/biodiversity-ignored-by-press/

Greenreport (2018, IT).

http://www.greenreport.it/news/aree-protette-e-biodiversita/la-crisi-della-biodiversita-non-interessa-media/

20 minutes (2018, FR).

https://www.20minutes.fr/planete/2234443-20180308-pourquoi-parle-bien-plus-changement-climatique-erosion-biodiversite

RFI (2018, FR).

http://www.rfi.fr/emission/20180218-2-chaos-climatique-financier-jouzel-larrouturou

le Devoir (2018, FR).

http://www.ledevoir.com/socie dpkg-reconfigure locales te/education/518374/les-deux-derniers-laureats-de-l-acfas-reviennent-sur-leur-experience