

Kévin Cazelles

- Phd candidate in theoretical ecology -

contact

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Github: KevCaz

languages

french mother tongue
english fluency
portuguese fluency
chinese begginer
german working
knowledge

programming

R ◆◆◆◆◆
C/C++ ◆◆◆◆◆
Matlab ◆◆◆◆◆
HTML5 ◆◆◆◆◆
PHP ◆◆◆◆◆
Postgresql ◆◆◆◆◆
Java ◆◆◆◆◆
Python ◆◆◆◆◆

document preparation

Latex ◆◆◆◆◆
Markdown ◆◆◆◆◆
Word ◆◆◆◆◆

presentation program

Powerpoint ◆◆◆◆◆
Beamer ◆◆◆◆◆

education

- 2012–Now **UQAR / ISEM** Rimouski, Québec, Canada / Montpellier, France
Phd Thesis. My main project is to find elegant methods to introduce both interactions among species and evolution in species distribution models.
- 2008–2012 **AgroParisTech** Paris, France
AgroParisTech is the life science branch of Paristech, the Paris consortium of ten foremost master's level scientific schools. **Diploma of Agronomy Engineer and Master degree in Ecology.**

experience

- 2012 **ISEM, Université Montpellier 2** Montpellier, France
Working on integrating species interactions in ecological niche modelling.
- 2011 **LEEC, Universidade Federal de Minas Gerais** Belo Horizonte, Brazil
Six months' training period, working on herbaceous plant communities in Cerrado : phenology and germination.
- 2010 **SIMBIOS Centre** Dundee, United Kingdom
Six months' training period, working on modelling fungal growth dynamics in a realistic soil environment.
- Spring 2009 **Laboratoire Ecologie et Evolution, ENS** Paris, France
Four month's training period, working on wavelets : statistical testing, code in C and application to time series of dengue in Southern Asia.

teaching

- 2013-2015 **Teaching 64h/year** Université de Montpellier
Practical course for first year undergraduates in developmental biology.
- 2014-2015 **Teaching 16h/year** Université du Québec à Rimouski
Presenter for the QCBS R Workshop Series.
- 2014 **Teaching 1 day** Universidade Federal de Minas Gerais
Advanced R course on map editing.
- 2014 **Teaching 1 day** Université du Québec à Rimouski
Advanced R course on data vizulation / graphics editing.

interests

professional: statistics, spatial analysis, species distribution, stochastic modelling, programming, data vizualisation.

personal: science popularization, rugby, ultimate frisbee, dancing.

communications

- 2012 **Oral Presentation** UFSM, Santa Maria, Brazil
Wavelet clustering : a tool for analysing spatial and temporal patterns of epidemics based on their dynamical properties : Application to Dengue in Thailand.
- 2014 **Oral Presentation** SFE-BSE, Lille, France
Integration of ecological networks in a theoretical stochastic model of biogeography.
- 2015 **Oral Presentation** CSEE, Saskatoon, Saskatchewan, Canada
Integration of ecological networks in a theoretical stochastic model of biogeography.

publications

article in peer-reviewed journal

- Soil fungal dynamics: Parameterisation and sensitivity analysis of modelled physiological processes, soil architecture and carbon distribution
K. Cazelles et al.
Ecological Modelling 248 (2013) pp. 165–173. 2013
- Major urban centers have weak influence on the timing of dengue epidemics in Southeast Asia.
B. Cazelles, K. Cazelles
International Journal of Infectious Diseases 21 (2014) p. 217. 2014
- Wavelet analysis in ecology and epidemiology : impact of statistical tests
B. Cazelles, K. Cazelles, M. Chavez
Journal of the Royal Society Interface 11 (2013) pp. 20130585–20130585. 2013
- Diversity of germination strategies and seed dormancy in herbaceous species of campo rupestre grasslands
S. Le Stradic et al.
Austral Ecology 40.5 (2015) pp. 537–546. 2015

article accepted in peer-reviewed journal

- A Theory for species co-occurrence in interaction networks
K. Cazelles et al.
Theoretical Ecology vol. na.na (2015) na-na. 2015
- On the integration of biotic interaction and environmental constraints at the biogeographical scale
K. Cazelles et al.
Ecography vol. na.na (2015) na-na. 2015
- The structure of probabilistic networks
T. Poisot et al.
Methods in Ecology and Evolution vol. na.na (2015) na-na. 2015

science popularization

- La biodiversité en territoire isolé* K. Cazelles
Acromath vol. 9.1 (2014) pp. 14–19. 2014