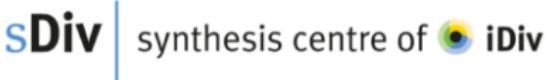


Short biography



Ghislain VIEILLEDENT¹

[1] **UMR AMAP**, Univ Montpellier, CIRAD, CNRS, INRAE, IRD,
Montpellier, FRANCE



PhD Thesis (2005-2009)

- With Benoît and Georges in Grenoble, with participation from Jim
- On tree species coexistence in the mountain forests of the European Alps



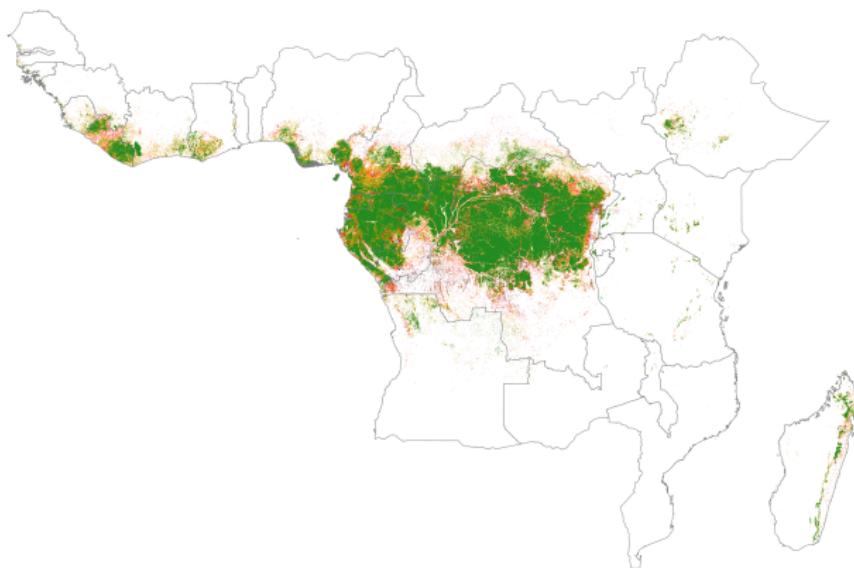
Position as ecologist at Cirad (2009-now)

- Community ecology and applied statistics
- Expatriated in Madagascar (3 years)
- Detached at JRC (EC research center) in Italy (3 years)
- Conservation ecology in tropical forests
- Main topics:
 - Species vulnerability to climate change
 - Role of tropical forests in the global carbon cycle



Forecasting tropical forest cover in the future

- Spatial model of tropical deforestation at high resolution
- Under a business-as-usual scenario
- Maps of the deforestation risk and potential future forest cover
- <https://forestatrisk.cirad.fr>



Species vulnerability to climate change

- Trait and phylogenetic data
- Joint Species Distribution Models
- Madagascar, French Guiana, and New Caledonia
- <https://ecology.ghislainv.fr/jSDM>

jSDM 0.1.0 Home Get started Reference Articles Change log [Twitter](#) [GitHub](#)

jSDM R Package

Package for fitting joint species distribution models (jSDM) in a hierarchical Bayesian framework (Warton et al. 2015). The Gibbs sampler is written in C++. It uses Rcpp, Armadillo and GSL to maximize computation efficiency.



Links

Browse source code at
<https://github.com/ghislainv/jSDM>

Report a bug at
<https://github.com/ghislainv/jSDM/issues>

License

GPL-3 | file LICENSE

Developers

Ghislain Vieilledent

Author, maintainer

Jeanne Clément

Author



Copyright holder, funder

Dev status

build

CRAN not published

downloads 9/month

System requirements

Make sure the GNU Scientific Library ([GSL](#)) is installed on your system.

Installation

Install the latest stable version of **jSDM** from [CRAN](#) with:

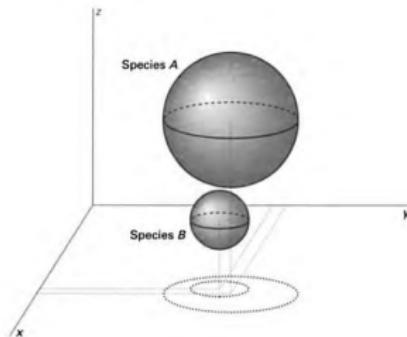
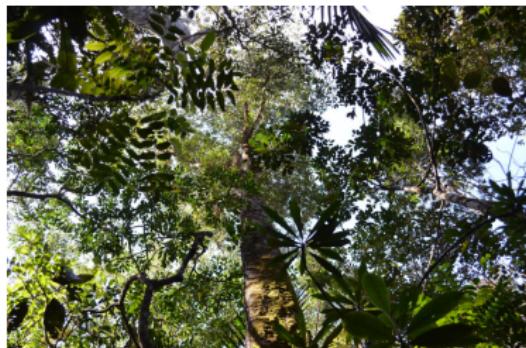
```
install.packages("jSDM")
```

Or install the development version of **jSDM** from [GitHub](#) with:

```
devtools::install_github("ghislainv/jSDM")
```

INTRACO project scientific motivations

- Confusion regarding nature and implications of intraspecific variability in ecology
- Concepts in temperate forests not yet well established for tropical forests
 - Stable coexistence in tropical forest (cf. Clark et al. 2003)
 - Niche multidimensionality and species coexistence in tropical forests





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