



Virtual Ecology Portal

## *Computational resources for learning Ecology*

***“Essentially all models are wrong, but some are useful”*** George Box

***“Theory without data is fantasy, but data without theory is chaos”*** Lawler, E. 1971

***“A measure of the usefulness of a theory is its ability to fail in informative ways.”*** Rosindell et al. 2011

# Welcome

This wiki is a collaborative platform for the development and use computational simulation for teaching and learn ecological models.

Here you can find:

- Didactic sequences
- The EcoVirtual R package for teaching ecology
- Guidelines for using other computing resources
- *Links* for more study material

## How to participate

### Use of material

- All material on this site is free to use and reproduce, as long as its authorship is acknowledged.
- The scripts are independent and can be combined in different didactic sequences.
- We would appreciate if you let us know how you use EcoVirtual material.

### Code Repository

The code for both packages, EcoVirtual and EcoVirtualPlugin, are in the github repository. To clone, contribute or indicate a bug, join the EcoVirt github group <https://github.com/ecovirt>.

## Collaborate

- Send criticisms, questions and suggestions by email.
- Report issues or request improvements to the EcoVirtual package at [your repository](#)
- If you want to participate as a script or package author, please contact us.

### Problems with math expressions

If you have problems viewing mathematical expressions and symbols on this wiki, look for a plugin or extension that has ASCIIMath in the name for your browser. In **Chrome** the extension is named *MathML-2-CSS*. Firefox recognizes formulas by default, other browsers have not been tested.

## Courses that use EcoVirtual

This list includes only brazilian courses that the teacher told us is using our portal. If you are using, please send us a message and we will be happy to include your course on this list.

### Undergraduate

- [Ecology of plant populations and communities](#), USP
- [Ecologia Virtual](#), USP

### Postgraduate

- [Community Ecology](#), USP
- Population ecology, USP
- [Summer School on Mathematical Biology](#), ICTP-SAIFR
- Community Ecology, Unicamp
- Theoretical Ecology, UFRN
- Population Ecology, UFAM - INPA

## Coordinators



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## To learn more

- Our [motivation statement](#).
- Lecture on our concept of math literacy:
  - [Video](#)
  - [Slides](#)

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