## Mauro Lepore

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I am an **R programmer**\_ with **doctoral and postdoctoral experience** in ecological research, a field with a strong focus on data management and statistics. I now work at the Smithsonian Institution (Washington DC, US), as an R programmer for a global network of researchers.

## EXPERIENCE

### R programmer

ForestGEO  
2017-03 - present  
National Museum of Natural History, Smithsonian Institution, Washington DC, USA

**I build R programs** and related software infrastructure (websites, Shiny applications, documentation, tutorials, etc.) to help researchers better understand and predict the dynamics of the world’s forests in the face of climate change. The technologies I use the most include R, Git, GitHub, and continuous integration with TravisCI.

### Data science instructor

The Carpentries  
2018 - present

As a **certified instructor** of The Carpentries, I volunteer to **teach** foundational coding and **data science skills to researchers and students** (e.g. Excel, OpenRefine, SQL, R, Git).

### Postdoctoral research fellow

O’Dea Lab: Change and Variation in Tropical Seas  
2016-02 to 2017-02  
Smithsonian Tropical Research Institute, Panama City, Panama

I researched how coral reefs changed through time, before and since human impacts. I supervised two interns.

### Teaching university students

Smithsonian Tropical Research Institute and The University of Queensland  
2011-2016

**Teaching assistant** for university students from **Texas A&M** University, The **University of Queensland**, **Stanford** University, and the **University of California**.

## EDUCATION

### The University of Queensland, Australia

PhD in ecology, environmental sciences, and geochemistry  
2011-2015  
School of Biological Sciences, ARC Center of Excellence for Coral Reef Studies

I studied the “Long term dynamics of coral reefs in the inshore southern Great Barrier Reef”, including the potential of a reef system to constitute a refuge for coral reefs from global warming. In the field and lab, I **supervised three students and 20 volunteers**.

### Universidad de Buenos Aires, Argentina

Licentiate degree in biological sciences with a focus on marine ecology  
1999-2008  
Faculty of Natural Sciences

In addition to coursework, I researched a novel method to study the growth rate of a clam.

## SKILLS

### Tools & technologies

* **R programming** for data science (e.g. tidyverse packages, rmarkdown, shiny) and **software development** (e.g. usethis, rlang, devtools, roxygen2, testthat)
* Bash and **Git** for version control
* GitHub for collaboration and project management
* TravisCI for **continuous integration**

### Industry knowledge

Computer software, higher education, data science, statistics, teaching, research.

## LANGUAGES

**English** (full professional) and **Spanish** (native).

## PROJECTS

### tor: Import Multiple Files From a Single Directory at Once

2019-01 - present  
URL <https://CRAN.R-project.org/package=tor>

### fgeo: Analyze Forest Diversity and Dynamics

2017-03 - present  
URL <https://forestgeo.github.io/fgeo/>

## PEER-REVIEWED PUBLICATIONS

2017  
Look to the past for an optimistic future  
A O’dea, EM Dillon, AH Altieri, **ML Lepore**  
Conservation Biology 31 (6), 1221-1222

2015  
Long-Term Dynamics of Coral Reefs in the Inshore Southern Great Barrier Reef  
**ML Lepore** (supervisors: J Pandolfi and JX Zhao)  
PhD thesis. School of Biological Sciences, The University of Queensland

2011  
Population structure, growth and production of the yellow clam *Mesodesma mactroides* (Bivalvia: Mesodesmatidae) from a high-energy, temperate beach in northern Argentina  
M Herrmann, JEF Alfaya, **ML Lepore**, PE Penchaszadeh, WE Arntz.  
Helgoland Marine Research 65 (3), 285

2009  
Aplicación de calceína para la estimación del crecimiento de la almeja amarilla *Mesodesma mactroides* Reeve, 1854  
**ML Lepore**, PE Penchaszadeh, F Alfaya, E José, M Herrmann  
Revista de biología marina y oceanografía 44 (3), 767-774

2009  
Growth estimations of the Argentinean wedge clam *Donax hanleyanus*: A comparison between length-frequency distribution and size-increment analysis  
M Herrmann, **ML Lepore**, J Laudien, WE Arntz, PE Penchaszadeh  
Journal of Experimental Marine Biology and Ecology 379 (1-2), 8-15

2009  
Reproductive cycle and gonad development of the Northern Argentinean *Mesodesma mactroides* (Bivalvia: Mesodesmatidae)  
M Herrmann, JEF Alfaya, **ML Lepore**, PE Penchaszadeh, J Laudien  
Helgoland Marine Research 63 (3), 207

2008  
Estudio del crecimiento de la almeja amarilla argentina *Mesodesma mactroides* por marcaje fluorescente in situ y comparación con el método de análisis de distribuciones de frecuencias de tallas  
**ML Lepore** (supervisors: M Herrmann, PE Penchaszadeh)  
Licentiate thesis. Facultad de Ciencias Exactas y Naturales, Universidad de Buenos Aires