

# Mauro Lepore, PhD

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**PhD** in a **statistics**-driven field and **10+ years** of experience as an **R programmer**. Multiple long-lived open-source **Shiny** apps and **R packages** on **CRAN**. Expert in **Git**, **GitHub**, tests, and **CI/CD**. Contributor to the **Pharmaverse** blog and training in **clinical trials**.

## Experience

**ixpantia** — Research Software Engineer (Dec 2024 – Present)

- Designed and led Research Software Engineering (RSE) services.
- Delivered training on best practices for writing tests in R.
- Reviewed and contributed to the upkeep of open-source R packages.

**Theia Finance Labs** — Senior Software Developer (June 2019 – Aug 2024)

- Led Shiny app development and modular R package systems.
- Saved \$40,000+ by implementing efficient cloud/data pipelines.
- Built CI/CD infrastructure, increasing software reliability.

**Smithsonian Institution** — Software Developer (Mar 2017 – June 2019)

- Developed fgeo (5 R packages on CRAN) for ecological research.
- Co-authored peer-reviewed software and paper.
- Taught R, Git, and GitHub workshops for researchers.

## Education & Certifications

- **PhD, Ecology** — The University of Queensland (2011 – 2015)
- **BSc, Ecology & Evolution** — University of Buenos Aires (1999 – 2008)
- Clinical Trials Monitoring, GCP Training
- Carpentries Instructor (Data Science Training)

## Key Technical Skills

- **Programming:** R (advanced), Git, SQL, Bash, Docker
- **Software Development:** Shiny apps, automation, cloud infrastructure
- **Languages:** Spanish (Native), English (Fluent)

## Publications & Open Source

- 10+ R packages on CRAN (fgeo, r2dii, allodb).
- Co-author: rOpenSci Peer Review Guide.
- rOpenSci Mentor & Editor (reviewed 10+ R packages).
- Pharmaverse blog author.