



**Renato Lima** is a Marie Curie fellow at the Naturalis Biodiversity Center, the Netherlands. He is an ecologist mainly interested in the patterns and processes controlling the structure and diversity of tropical forests. His main research interests include quantitative community ecology, the taxonomic, functional and phylogenetic diversity of tree species, the restoration of tropical forests and the conservation of tropical trees. He also is the lead coordinator of the Neotropical Tree Communities database (TreeCo).

**Email:** [renato.lima@naturalis.nl](mailto:renato.lima@naturalis.nl)

**Website:** : [www.naturalis.nl/en/renato-lima](http://www.naturalis.nl/en/renato-lima)

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Salle 201, Bâtiment PS2, CIRAD-UMR AMAP,  
Boulevard de la Lironde

# Tropical Forest Ecology, Restoration and Conservation in Human-modified Landscapes

*presented by*

**Renato LIMA**

Naturalis Biodiversity Center, the Netherlands

## **ABSTRACT**

Tropical and subtropical forests are vital ecosystems, providing ecosystem services (e.g., carbon storage) and sheltering nearly half of Earth's biodiversity. However, half of its original coverage has vanished and what's left undergoes increasing human pressures. Understanding how these threatened ecosystems work and how they respond to human pressures is the key to the conservation of its diversity and the restoration of its functioning. In this presentation, I will provide an overview of my experience working with tropical forests, mainly in the Atlantic Forest biodiversity hotspot in South America. More specifically, I will present some of my research results (previous and ongoing) related to the following topics: (i) Forest Regeneration; (ii) Community Ecology; (iii) Human impacts on tropical forests; (iv) Ecological Restoration of Tropical Forests; and (v) Biological Conservation. I will also present the Neotropical Tree Communities database (TreeCo), a long-term project that synthesizes the available knowledge on Neotropical forests, with a current focus on extra-Amazonian Brazilian biomes. Finally, I will present some of the future research plans and some ongoing collaborations.

## **KEY WORDS**

Carbon budgets; Endemic and threatened species; Forest Ecology; Forest Fragmentation; Secondary forests

**Invited and animated by:**

Maxime Réjou-Méchain (UMR AMAP)

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c/o CIRAD – TA A-51/PS2 – Boulevard de la Lironde – 34398 Montpellier Cedex 5

