

Ismaël Lajaaiti

2ND YEAR · PHD STUDENT

Institut des Sciences et de l'Evolution - Université de Montpellier

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Experience

PhD

ISEM, France

THE DYNAMICS AND STABILITY OF MULTIPLEX ECOLOGICAL NETWORKS - WITH S. KÉFI AND J-F. ARNOLDI

September 2022 - Present

- Developed a Julia package to simulate the temporal dynamics of multiplex ecological networks and assess their stability
- Formulated a theory to elucidate how biotic interactions shape species responses to perturbations

Master thesis

ISEM, France

HOW NON-TROPHIC INTERACTIONS CHANGE THE DIMENSION OF STABILITY - WITH S. KÉFI AND V. DOMINGUEZ-GARCIA

Spring 2022

- Understanding how non-trophic interactions modify the relationships between different stability facets of complex ecological networks

Master internship

University of Regensburg, Germany

INFERRING RATES FROM PHYLOGENIES WITH DEEP LEARNING - WITH F. HARTIG

Spring 2021

- Developed deep learning methods to infer diversification rates from phylogenies

Publications

How biotic interactions structure species' responses to perturbations

In Review

I. LAJAAITI, S. KÉFI, J-F ARNOLDI

2024

<https://doi.org/10.22541/au.171156388.83695023/v1>

EcologicalNetworksDynamics.jl: A Julia package to simulate the temporal dynamics of complex ecological networks

In Review

I. LAJAAITI, ET AL.

2023

<https://doi.org/10.1101/2024.03.20.585899>

A comparison of deep learning architectures for inferring parameters of diversification models from extant phylogenies

BiorXiv

I. LAJAAITI, ET AL.

2024

<https://doi.org/10.1101/2023.03.03.530992>

Skills

Languages Julia, R, Python, Git

Spoken Languages English, French

Education

ENS de Lyon

Lyon, France

MASTER IN PHYSICS OF COMPLEX SYSTEMS

2018 - 2021

CPGE - Lycée Louis le Grand

Paris, France

CLASSES PRÉPARATOIRES AUX GRANDES ÉCOLES

2016 - 2018