

# Postdoctoral Researcher: Multiscale Evolution in Biological Networks

Northwestern University: ESAM & NICO

The [Complex Systems research lab of Prof. Cristián Huepe](#) at [Northwestern University](#) is searching for a postdoctoral researcher to work on an ambitious project on **the emergence of modularity at multiple scales in living systems**.

This 3-year, fully funded position will develop **fundamental theoretical research** using evolutionary models of Boolean and adaptive networks, existing datasets, and artificial life simulations to **explore the origins and consequences of multiscale modular structures and dynamics in evolving biological networks**. The successful candidate will be expected to work in close collaboration with Prof. Huepe in this well-defined project, but with a high degree of independence regarding approaches and methods.

Ideal qualifications include familiarity with network-based representations of biological systems at different scales (genetic, metabolic, functional, ecological, etc.), experience with simulations of network dynamics and evolutionary systems, and the ability to work autonomously and draft papers. All highly motivated candidates with a passion for creative collaborative fundamental research and eagerness to learn quickly will be considered.

The position will be based at Northwestern University's Evanston Campus, associated to the [Northwestern Institute on Complex Systems \(NICO\)](#) and the [Applied Mathematics Department \(ESAM\)](#), in a stimulating academic environment and next to the vibrant city of Chicago.

Applications should be sent to [cristian@northwestern.edu](mailto:cristian@northwestern.edu), including: **1)** a complete CV with publication list, **2)** a brief description (1 page max) of research interests and their connection to this project, and **3)** two contacts (names, positions, and email addresses) for potential reference requests. Candidates from underrepresented groups and regions of the world are encouraged to apply.

**Selection will begin July 31** and continue until the position is filled. The expected **starting date is between September and December 2021**.