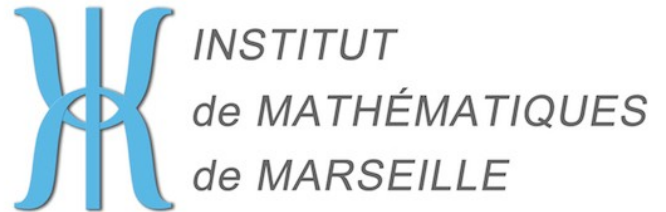




Marseille
Medical
Genetics



Postdoctoral position in Mathematical and Computational Biology

Keywords: Graph theory, Network Biology, Dimensionality Reduction, omics data

The Mathematics and Algorithms for Systems Biology group in the Marseille Institute of Mathematics (I2M) and the Networks and Systems Biology for Diseases group in the Marseille Medical Genetics Unit (MMG) have an open position for a Postdoctoral fellow.

Project

The project aims to develop novel methodological strategies to analyze and integrate large-scale biological data. The methods will be based on graph theory, dimensionality reductions, matrix factorization and/or auto-encoders. The applications will be in the context of rare genetic diseases, and the candidate will have the opportunity to handle a large variety of in-house omics data.

Environment

The successful applicant will work in an interdisciplinary team of biomathematicians and computational biologists. The project will be unrolled in the context of the CAMUDI ANR project, which involves collaborations between the genetic, the mathematics and the computer sciences institutes of Marseille.

Qualifications

- PhD in Computer Science, Applied Mathematics, Computational Biology or related fields.
- Experience in the design and implementation of algorithms applied to the analysis of multi-dimensional data or large-scale networks
- A previous experience in the use and development of R/Python packages for biological -omics data analysis would be an asset
- Strong analytical and communication skills are essential

Offer

Fully-funded position for 2 years in Marseille, a vibrant city from the south of France. The starting date is expected in Autumn 2022. The salary will be based on experience. The I2M is located in the Luminy Campus, and MMG in the La Timone faculty of Medicine campus. The working language of the group is English.

Application can be sent directly to “elisabeth.remy – at – univ-amu.fr” and “anais.baudot – at – univ-amu.fr”. Please make sure your application includes a letter of motivation, a list of publications, a detailed CV and the contact information of 2 references (including email addresses).