**Ph.D. position in computational neuroscience**

*Neural computation and dynamics group, Institut de Neurobiologie de la Méditerranée (Marseille)*

Supervisor: *Dr. Lorenzo Fontolan*

**Description**

A Ph.D. position in computational neuroscience is available in the Neural computation and dynamics lab of Lorenzo Fontolan at the Institut de Neurobiologie de la Méditerranée (INMED) in Marseille, France. The project is funded by the Turing Centre for Living Systems (CENTURI) at Aix-Marseille University.

The selected candidates will develop computational models of brain circuits and/or cutting-edge analysis tools for the analysis of neural data, drawing inspiration from dynamical systems, physics, statistics, and machine learning. Research questions can be chosen from a range of topics – such as neural dynamics, neural coding, memory & learning, biophysics of the neuron – with a particular emphasis on explaining flexible behavior.

**Desired skills**

Candidates with backgrounds in physics, mathematics, statistics, machine learning, computer science, and engineering are welcome to apply. The candidate should possess good mathematical and coding skills. Good (written and oral) communication skills in English are required. Knowledge of French is not required.

**Location**

Inmed, which accommodates more than 130 international researchers, is located inside the beautiful Luminy site of the Parc National des Calanques (Marseille). The Neural computation and dynamics lab is also affiliated with the Center for Theoretical Physics which is also located here in Marseille. The lab collaborates with local and international research groups employing advanced experimental techniques such as calcium imaging, optogenetics, and in vivo electrophysiology. Marseille is home to a thriving and collaborative neuroscience community with expertise in all subfields of neuroscience, providing opportunities for multidisciplinary collaborations. Marseille is also one of the fastest-growing metropolitan areas in France, with a wide range of opportunities for recreation and culture.

**Application Information**

The position would ideally start in early 2024, considering the administrative times to enroll in the graduate school (approximately 2-3 months). Compensation will be according to Aix-Marseille University guidelines. The Neural computation and dynamics lab is committed to creating an inclusive environment open to individuals from different cultures, ethnicities, and socio-economic backgrounds. Candidates should send a CV, a statement of motivation and interests, transcripts of undergraduate and masters grades, and expected date of availability with the subject line "Ph.D. application". Please also arrange for two letters of recommendations to be sent to **lorenzo.fontolan@inserm.fr** .