Phd Position in Mathematical Neuroscience

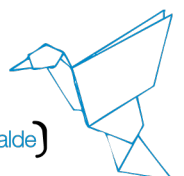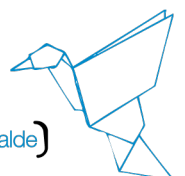| Job Offer	
Topics:	**The Basque Center for Applied Mathematics is launching one PhD position of 4 years, to work in Mathematical Modelling with Multidisciplinary Applications.** We are seeking a highly motivated PhD student to join our interdisciplinary research team at the Basque Center for Applied Mathematics, to work on different aspects of Mathematical Neuroscience. The candidate will be supervised by Dr. Miguel Aguilera. The successful candidate will contribute to both theoretical and experimental aspects of the project "Goal-Directed Behavior and the Origin of Life," funded by the John Templeton Foundation and VERSES Inc. This project aims to explore minimal forms of goal-directed behavior (GDB) in artificial and protobiological systems, which may be key to understanding the origin of life (OOL) and problems in fields like neuroscience and artificial intelligence. The research involves developing a formal theory of GDB in biological network models. The position is for a PhD contract of four years at the Basque Center of Applied Mathematics, funded by Templeton grant: Goal-Directed Behavior and the Origin of Life + VERSES. The candidate will also have the opportunity to interact and work with other researchers and will be part of a research group with a good balance of younger and more established researchers with a vast collective range of interests in mathematical Computational and Experimental Neuroscience and related areas, and counts with a large network of collaborators spread across different countries. If you are a passionate about Mathematical Neuroscience, this opportunity is for you. Join us in our center located in the Basque Country. Apply now and become part of our dedicated team at BCAM.

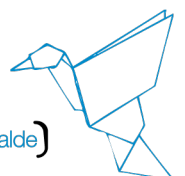|	
PI in charge:	Dr. Miguel Aguilera
Salary and conditions:	**The gross annual salary of the PhD student will be: 19.764 € - 24.776 € according to experience.** *It will then be on your own responsibility to make your yearly income declaration at the Bizkaia Treasury Agency.* Additionally, we offer a moving allowance up to 500€. Should the researcher have a family at the time of recruitment: 1. 1.000€ gross in a single payment will be offered (you must be married-official register or with children and the certificate to prove it must be sent). 2. 600€ gross per year/per child (up to 2 children) will be offered (the certificate to prove it must be sent). *Free access to the Public Health System in Spain is provided to all employees.*
Nº Positions offered:	**1**
Contract and offer:	**4 years**
Deadline:	**November, 2024, 14:00 CET (UTC+1)**
How to apply:	Applications must be submitted on-line at: https://joboffers.bcamath.org

Scientific Profile Requested	
Requirements:	• Bachelor's and Master's degree in Physics, Chemistry, Computational Biology, Computer Science, Mathematics, or related fields.
Skills and track-record:	• Solid background in theoretical and/or computational research. • Excellent analytical and problem-solving skills. • Strong written and verbal communication skills.

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	• Demonstrated ability to work independently and as part of a collaborative research team. • Ability to present and publish research outcomes in spoken (talks) and written (papers) form. • Fluency in spoken and written English.
Scientific Profile:	In the selection procedure we will appreciate: • Strong background in theoretical and computational research. • Background in nonequilibrium thermodynamics and statistical mechanics. • Interest in interdisciplinary research projects, particularly at the intersection of life sciences and physical sciences.

Application and Selection Process	
Formal Requirements:	The selected candidate must have applied before the application deadline online at the webpage: https://joboffers.bcamath.org The candidates that do not fulfil the mandatory requirements will not be evaluated with respect to their scientific profile.
Application:	Required documents: ▪ CV ▪ Letter of interest ▪ 2 recommendation letters ▪ Statement of past and proposed future research (2-3 pages)
Evaluation:	Based on the provided application documents of each candidate, the evaluation committee will evaluate qualitatively: the adaption of the previous training and career to the profile offered, the recommendation letters, the main results achieved (papers, proceedings, etc.), the statement of past and proposed future research and other merits; taking in account the alignment of these items to the topic offered.

Incorporation:	**November 2024**

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