Weekly newsLetter in Statistical Physics: conferences, academic jobs and post-doc positions

Postdoc position on theory development for neutral biodiversity dynamics on dendritic networks, Center for Complex Systems Understanding, Görlitz, Germany

The Center for Advanced Systems Understanding (CASUS; www.casus.science) seeks an interdisciplinary postdoc to develop theory for applying stochastic biodiversity models to dendritic river networks. The postdoc will attempt to analytically solve a model that has successfully explained fish biodiversity in the Mississippi river (https://doi.org/10.1038/nature06813), and which will soon be applied to other river systems. The position requires experience working with multivariate stochastic processes.
https://www.casus.science/backend/wp-content/uploads/2020/08/CASUS-job-offer_Postdoctoral-Researcher_RiverNetworks_Modeling-1.pdf

From: "Calabrese, Justin" <j.calabrese@hzdr.de>

Post-doc position at CEA/Saclay, France

The GEOSTOH project (Heterogeneous STOchastic GEOmetries) aims at implementing new simulation tools for particle transport in disordered media with multi-scale heterogeneities and spatial gradients, which emerge, e.g., in radiative transfer in turbulent mixtures. The geometric structure of these media can be described using random tessellations. The main scientific challenges are both theoretical and numerical: first developing a coherent probabilistic formulation for non-homogeneous random tessellations, then establishing a HPC framework for the simulation of particle transport in such random structures in order to determine the distributions of the desired physical observables. Post-doc over a period of 12 months.
http://www.cea.fr/energies/tripoli-4/job-openings/postdocs

From: Andrea Zoia <andrea.zoia@cea.fr>

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2 postdoctoral positions in the Physics of Order in Soft Condensed Matter Systems, Shanghai Jiao Tong University, China

The projects will be focused on the hidden order in the hierarchical structure of soft matter systems (e.g., supercooled liquids, amorphous solids, as well as active and bio systems). The aim is to build basic physical understandings of these complex systems, specifically, the peculiar mechanical, dynamical, as well as thermodynamic behaviors, based on the hidden ordering. Candidates should have a Ph.D. degree in a related field by the beginning of the postdoc appointment, and those with good knowledge of statistical physics, solid state physics, and molecular simulations are preferred. Applicants are encouraged to send their CV and a short description of themselves.

From: Hua Tong <huatong@sjtu.edu.cn>

Post-doctoral position at ESPCI Paris on active matter :
"Confined bacteria in a drop: a model of active thermal bath"

See details and contacts: https://blog.espci.fr/eclement/files/2020/09/Postdoc-offer_ESPCI_2020.pdf

From: Eric Clement <eric.clement@upmc.fr>

Post-doc position in Protein Simulations, Department of Physics, Tempe, Arizona, USA

Dmitry Matyushov (dmitrym@asu.edu) seeks a 2-year postdoc to apply molecular dynamics of proteins to protein charge transfer and conductivity. See http://apply.interfolio.com/78489.

From: Dmitry Matyushov <dmatyus@asu.edu>

Post-doc in Theoretical Biophysics at Sartori Group. Gulbenkian Institute, Lisbon, Portugal

The position is to work on the field of theoretical biophysics, broadly understood. Research interests include: self-assembly of protein systems, cellular energetics, and evolution of ecosystems. Candidates should: Hold a PhD in statistical physics, soft matter, or non-linear dynamics. Be interested in biology, no prior experience required. Be open to multidisciplinary approaches, including collaborating with experimental groups. More information at https://www.sartorilab.org/apply

From: Pablo Sartori <psartori@rockefeller.edu>

MISCELLANEOUS

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