Positions

For various other job postings visit academickeys.com

A post-doc position in probability (Mean-Field descriptions or thermodynamics limits of large populations of neurons or related subjects like spin glasses) is available at INRIA in the Sophia Antipolis Méditerranée Research Center, France. More informations please visit http://www-sop.inria.fr/members/Olivier.Faugeras/index.en.html

New England Complex Systems Institute has two Postdoc and Research Positions Available

Computational Social Science and Medical Data Research

Computational Social Science Research - We are seeking a postdoctoral or predoctoral researcher to study patterns of human social behavior revealed in data sources including social media. The right candidate will have a unique opportunity to apply data analysis, machine learning, and artificial intelligence research to glean complex insights about patterns in social systems.

Medical Data Research - We are seeking a postdoctoral or predoctoral researcher to study an exclusive set of medical data provided by partnering medical institutions. The right candidate will have a unique opportunity to apply data analysis, machine learning, and artificial intelligence research to glean complex insights about patterns in human health.

Direct inquiries to programs@necsi.edu, or apply online at http://www.necsi.edu/education/postdoc/app.php

The Department of Physics at the University of Houston seeks to fill a tenure-track Assistant professorship with a theorist specializing in statistical mechanics pending the approval by the University of Houston Board of Regents. We expect to hire at the assistant professor level, but more senior candidates may be considered. Candidates must have a strong record of scholarship and be able to establish and sustain a robust, externally funded research program. Preference will be given to those with postdoctoral experience. Candidates must also demonstrate a commitment to and potential for excellence in teaching a wide range of physics courses at both graduate and undergraduate levels, as well as in mentoring students in research. Effective communication skills are required. Applications should include: (1) a detailed cover letter describing the applicant’s background and qualifications for the position, (2) a statement of philosophy, interest, and experience in teaching, (3) a detailed statement of proposed research, including plans for involving students and for seeking external support, (4) a full curriculum vitae, including a list of publications and the names, addresses, e-mail addresses, and telephone numbers of at least three professional references. The applicants must apply at http://jobs.uh.edu
Postdoctoral positions in the Department of Physics, Ramakrishna Mission Vivekananda University in the areas of statistical physics, nonlinear dynamics, gravitation and cosmology, and high-energy physics. The initial appointment of postdoctoral fellows will be for one year, renewable for one more year subject to satisfactory performance. We envisage a target starting date of 1 September 2018, but this is flexible. The postdoctoral fellowship and benefits we are offering are at par with or even better than those offered by Institutes and Govt. organizations in India: The starting fellowship is 50,000 INR per month (consolidated). In addition, the fellows will be offered a research grant of 1 lac INR per annum for attending international conferences and making collaborative research visits. The last date for applying is July 31st, 2018. Full details are available on the following website: http://physics.rkmvu.ac.in/faculty-positions/

In the context of the EU H2020 project FET NANOPHLOW we are seeking 4 highly qualified post-doctoral researchers for an exciting collaborative project on the fundamental challenges of thermodynamic gradient driven transport. The postdoctoral positions will address complementary aspects related to the fundamental challenges of thermodynamic driving. The broad, theoretical approach will provide a systematic way to go beyond the state-of-the-art macroscopic descriptions of phoresis to capture the effects of the molecular nature of solvent and solute, solute size, solute and surface specificity, solute flexibility, surface wettability and heterogeneity, fluctuations and correlations.

1. The work in Barcelona will focus on the development and use of mesoscopic computational models to study the transport and rectification of soft matter and of biomolecules under strong confinement. The project will address the role of entropic transport and of capillarity in nanoscale transport mechanisms. Please contact prof. I. Pagonabarraga (ipagonabarraga@ub.edu) for more information and applications.

2. The work in Sorbonne Université will focus on molecular aspects, to address surface and fluid-specific effects on the flows induced by thermodynamic gradients at solid-liquid interfaces. This includes the development of molecular simulation strategies to evaluate osmotic flows, as well as the study of systems investigated experimentally within the NANOPHLOW consortium, such as flow through nanotubes. Please contact B. Rotenberg (benjamin.rotenberg@sorbonne-universite.fr) for more information and applications.

3. The work at Paris-Sud University will be analytically oriented, with possible computational aspects depending on taste, targeting the study of thermodynamic gradient-driven phenomena. Charged as well neutral systems will be investigated. Please contact prof. E. Trizac (emmanuel.trizac@lptms.u-psud.fr) for more information and applications.

4. The work in Utrecht will be largely based on the development of (dynamic) density functional theory for phoretic and osmotic transport through nanostructures as well as on the numerical calculation of solutions to the resulting Poisson-Nernst-Planck-Stokes-type equations of motion, where connection is to be made with ongoing experiments in the "Nanophlow" consortium. Please contact prof. R. van Roij (r.vanroij@uu.nl) for more information and applications.

Postdoctoral candidates interested in theoretical descriptions of the cytoskeleton and other problems at the interface between Soft Matter/Statistical Physics and Biology. Possible projects include theoretical investigations of the frustrated self-assembly of irregular objects as well as collaborations with Niels Holten-Andersen (MIT) to predict the viscoelastic behavior of biomimetic gels, Olivia du Roure and Julien Heuvingh (ESPCI) to study branched actin networks, Guillaume Romet-Lemonne and Antoine Jégou (Inst. Jacques Monod) to investigate formin-mediated actin polymerization and with

In the frame of the interdisciplinary project SCALE-IT-UP (Scaling of the Environmental Impacts of Transport and Urban Patterns) funded by the FNR (Fonds National de la Recherche in Luxembourg), we are looking for a postdoc (3 years) and a PhD student to work at the Luxembourg Institute of Socio-Economic Research (LISER) and at the University of Luxembourg.

The project is led by a geographer (Geoffrey Caruso, professor at the University of Luxembourg and LISER) and a physicist (Rémi Lemoy, postdoc at the University of Luxembourg), and will combine approaches from both disciplines to analyse statistically large spatial datasets regarding urban areas and their environmental impacts. The project aims to study hundreds of cities and uncover new urban scaling laws.

The details of the Post-Doc position are here: https://jobs.liser.lu/jobs/detail/post-doc-researcher-intra-urban-forms-and-scaling-laws-ref-scale-it-up-m-f-84

And the details regarding the PhD position are here: http://emea3.mrted.ly/1urjr

Postdoctoral opportunities in condensed matter theory and materials modelling at Manchester, described in the attached flier and in www.jobs.manchester.ac.uk/displayjob.aspx?jobid=15475.

The advertised posts will be focused on modelling electronic, optical, thermal and mechanical properties of heterostructures of various two-dimensional materials, and we will be equally interested in postdoctoral researchers with substantial expertise and those completing their PhD this year.

Postdoctoral position about multi-scale modeling of plasticity in amorphous solids at the PMMH laboratory at ESPCI in Paris. Motivated candidates should directly contact sylvain.patinet@espci.fr with required materials. If you know any potential candidates, please encourage them to apply too.

ICTP Trieste in stochastic thermodynamics and biophysics within the Quantitative Life Sciences Section is looking for outstanding candidates in the areas of statistical physics and quantitative biology for a postdoctoral position at the QLS division in ICTP: https://www.ictp.it/about-ictp/media-centre/news/2018/5/qls-postdocs-call.aspx