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

Post-doctoral positions are open at ENS Paris on the physics of amorphous solids. The post-docs will work in collaboration with Francesco Zamponi and other researchers in the Paris area and beyond, in the framework of a large international collaboration funded by the Simons Foundation. See http://www.phys.ens.fr/~zamponi/, section "open jobs" for details.

Post-doc position openings ERC-TRANSITION (ENS de Lyon, France)
Post doc 1: Large deviation theory and computation of rare events in climate dynamics
Post doc 2: Computation of the probabilities of rare events in solar system dynamics
The research project TRANSITION aims at developing statistical mechanics tools, mainly based on large deviation theory, in order to compute rare events which are essential in the understanding of complex dynamical systems. The problems studied span a complete range between theoretical and applied mathematics issues in developing large deviation theory for complex dynamical systems, their numerical computations, and their application to real systems. The project applications focus mainly on turbulent flows relevant for climate dynamics, but applications to other turbulent flows and the solar system dynamics are also considered.
Start date: Spring 2017, or Fall 2017
If you are interested please send a simple application e-mail, including a CV to Freddy Bouchet: Freddy.Bouchet@ens-lyon.fr

The Physics Department at Virginia Tech is anticipating *two* new tenure-track faculty hires next year. I serve as the chair for our search in Theoretical and/or Experimental Soft Matter and/or Biological Physics; In addition we are conducting a search in Experimental Nanoscale Science For a joint hire with our Academy of Integrated Science.
http://listings.jobs.vt.edu/postings/69181

Condensed matter theory for quantum information processing
Postdoctoral opening in 2017 at the Instituut-Lorentz for theoretical physics of Leiden University.
Our nanophysics group studies theoretically the quantum transport properties of nanostructured materials, in particular topological states of matter, with regards to their potential for solid-state quantum information processing. We collaborate closely with the experimental nanophysics group at Delft University of Technology, in the QuTech laboratory.

If you are interested in joining our team as a postdoc, please write to Carlo Beenakker: beenakker@lorentz.leidenuniv.nl

Nanophysics group in Leiden: http://lorentz.leidenuniv.nl/beenakker
Nanophysics group in Delft: http://qutech.nl

Applications are invited for a 3 year Research Associate role in Mathematics, tenable from 1 October 2017 (or a nearby date to be agreed). The aim of this project, funded by EPSRC UK, is to perform cutting edge research in the following two fields of modern probability theory and stochastic processes: (a) random walks and diffusions with long memory (including self-interacting walks, walks in random environment, tracer diffusion in interacting particle systems); (b) stochastic representations in statistical mechanics with special emphasis on quantum spin and particle systems. The Research Associate will work with Professor Balint Toth at the School of Mathematics, University of Bristol.

The applicant should have, or expect to hold shortly, a PhD in Mathematics or Theoretical Physics and experience in some aspect of probability theory, stochastic processes and/or mathematical statistical physics.

For informal enquiries please contact: Professor Balint Toth at <balint.toth@bristol.ac.uk>

Bath University: The Department of Mathematical Sciences is seeking to appoint a new professor who will extend and enhance its strength in Mathematical Analysis. Applications are particularly encouraged in Partial Differential Equations, Geometric Analysis, Calculus of Variations, Harmonic Analysis, Geometric Measure Theory, Ergodic Theory and Operator Theory, or a related field of Mathematical Analysis.

Applicants must have a strong research vision and a track-record of engagement within their Department and with the wider mathematics community. A key role will be to provide leadership and to help shape the wider research strategy of the analysis group and of the department and the university as a whole. Candidates should also have a strong interest in pursuing excellence in undergraduate and postgraduate teaching and in supervising graduate students.

For more information visit http://www.bath.ac.uk/hr/working/flexible-working/

Informal enquiries may be made to:
Professor Roger Moser, r.moser@bath.ac.uk, +44 (0)1225 386699,
Dr Veronique Fischer, v.c.m.fischer@bath.ac.uk, +44 (0)1225 383205, or
Professor Peter Mörters, Head of Department, p.morters@bath.ac.uk, +44 (0)1225 386216
University of California, Merced is looking to hire for four tenure track faculty positions. These positions form a cluster hire in “Adaptive and functional Matter” Areas of interest may include (but are not limited to): Soft, Bioinspired and Biological Matter (SBM) Materials and systems that are functionally robust and adaptive to a wide variety of conditions including soft and biologically inspired materials as well as living systems. Quantum Matter (Q) Materials, structures and techniques for the manipulation of light and matter at the smallest scales utilizing quantum effects for novel functional properties. Materials for Renewable energy and Catalysis (EC) Novel functional materials and systems that are geared toward high efficiency energy harvesting, storage of naturally occurring sources of energy or highly efficient catalysis.

The full posting can be found here https://aprecruit.ucmerced.edu/apply/JPF00400

Two post-doctoral positions are available from September 2017, (but a different date may be arranged) within the research program on Hydrodynamic Limits and Equilibrium Fluctuations: universality from stochastic systems:

http://patriciamath.wixsite.com/patricia/hylef
http://patriciamath.wixsite.com/patricia/post-doc-grants

The post-doctoral fellows will be working in one of the following topics:
- Hydrodynamic limits
- Universality of the KPZ equation from microscopic system
- Universality classes of systems with several conservation laws

At the Mathematics Department of Instituto Superior Técnico of the University of Lisbon:

The London Centre for Nanotechnology and University College London are pleased to offer an EPSRC funded PhD position in theoretical condensed matter physics. The student will pursue theoretical research into strongly correlated quantum systems, investigating the formation of new phases due to quantum fluctuations. He/she will investigate the quantum order by disorder route to understanding these effects, with the aim of incorporating them into established ab initio numerical approaches. The research will be carried out under the supervision of Prof Andrew Green in UCL and Prof Chris Pickard in Cambridge, and in close collaboration with the theory group of Dr F. Kruger and the experimental groups of Prof Andrew Huxley in Edinburgh and Prof Des McMorrow in UCL.

The position will be funded by the EPSRC for 4 years.

To enquire contact: Prof Andrew Green, andrew.green@ucl.ac.uk
Two 2-years postdoc positions in mathematical physics within the project "Universality in Condensed Matter and Statistical Mechanics", funded by an ERC Consolidator Grant (PI: Alessandro Giuliani), are now available. Interested candidates should have a strong background in the mathematics of quantum or classical statistical mechanics. The successful applicant will be expected to work on problems related to scaling limits in 2D systems at the critical point, broken phases in systems with continuous symmetry, quantum transport in interacting systems.

The appointments are for two years, starting in September 2017 or earlier (We invite applications by March 22, 2017; the call will remain open until the two positions are filled).

The positions are based at the Department of Mathematics and Physics of the University of Roma Tre. They come with no teaching duties and with traveling funds to attend conferences and workshops.

A full description of the project and the position, including details about how to apply can be found on the web page of the http://www.mat.uniroma3.it/users/giuliani/public_html/erc_CoG/index.html

The Center for Neuromathematics offers Postdoctoral fellowships for Probabilists interested in developing research in Stochastic modeling of the brain functioning. For more informations available at: http://neuromat.numec.prp.usp.br/postdoc

Positions Wanted

Nikolay Guiliskiy is lookin for PostDoc position in theoretical physics, namely in application of Quantum Field Theory techniques (calculation of Feynman graphs, renormalization group) to the problems of Statistical Physics (critical phenomena and turbulence).Nikolay is in attendance at the meeting. For more information please contact him directly.