

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

CONFERENCES

**Molecular Simulation with Machine Learning, on-line
July 13-14, 2020**

Due to the COVID-19 pandemic the workshop originally planned at Princeton University will be held on-line. A two-day virtual workshop covering theory and hands-on tutorials on the software package for molecular simulation with machine learning (ML) tools developed at the Computational Chemical Science Center “Chemistry in Solution and at Interfaces”

<http://chemlabs.princeton.edu/ccsc/>

The package includes codes to construct and use deep neural network models of the potential energy surface and electronic properties of multi-atomic systems that reproduce the results of electronic density functional theory. For more info visit

<http://chemlabs.princeton.edu/csi2020/> .

From: Clarice Gethers-Mubarak <cgethers@princeton.edu>

POST-DOC POSITIONS

**Postdoc at Physics Dept., with D. Sivak, Simon Fraser U,
Vancouver, Canada**

Postdoc in stochastic thermodynamics of molecular machines, developing theory and numerical simulation for the design, analysis, and interpretation of experiments probing the fundamentals of effective molecular-scale energy transduction, both in model biophysical systems and molecular machines. Within this broad research thrust there is ample freedom to pursue particular areas of personal scientific interest. Initial 1 year appointment; renewable with mutual agreement. Start date is flexible. <http://davidsivak.com/postdocad.html>

From: David Sivak <dsivak@sfu.ca>

**Postdoctoral position in simulation and theory of self-assembling
materials at the University of Texas at Austin, USA**

These will focus on molecular simulation and theory of self-assembling materials as part of ongoing collaborations in UT Austin’s MRSEC (Center for Dynamics and Control of Materials) and EFRC (Center for Materials for Water and Energy Systems). There will also be opportunities to engage with an industrially funded collaboration that focuses on using SAXS and coarse-grained modeling to understand the structure and dynamics of concentrated monoclonal antibody solutions. Candidates should have a strong background in molecular simulation and statistical mechanics.

From: "Truskett, Thomas M" <truskett@che.utexas.edu>

Postdoctoral fellowship in Statistical Physics at SISSA, Trieste, Italy, 2 years beginning in autumn 2020

Research topic: Dynamics and effective interactions in the presence of long-range forces or correlated/active media. Supervisors: Andrea Gambassi, Stefano Ruffo (to be contacted for further details).

<https://www.sissa.it/bandi/selezione-pubblica-titoli-conferimento-di-n-1-assegno-di-ricerca-area-fisica-ref-prof-5>

Application: <https://pica.cineca.it/sissa/ar-fe-fisi-30-2020/>

Deadline for applications: 15/06/20 (at 13:00 CET).

From: Andrea Gambassi <gambassi@sissa.it>

5 year Teaching-Research position in Cergy-Pontoise (France)

CY Cergy Paris Université will open a non-permanent Teaching-Research position in Theoretical Physics within LPTM, for a duration of 3 + 2 years, Position to open Oct. 1st, 2020. A permanent (competitive) Junior Professor position will open at the end of these 5 years allowing for the laureate to compete for tenure.

Additional information can be found here:

<https://euraxess.ec.europa.eu/jobs/525797>

Contact: jean.avan@cyu.fr

From: A. Torcini <torcini@gmail.com>

2 years Postdoctoral Research Fellow on the molecular design of complex lubricants to reduce friction, Swinburne University of Technology, Australia

The goal is to investigate potential new lubricants that significantly reduce frictional dissipation and greenhouse gas emissions. The successful applicant will play a key role in implementing new nonequilibrium molecular dynamics algorithms to predict the friction of realistic contacts under mechanical operating conditions of high strain rates, temperatures and pressures. <https://swinjobs.nga.net.au/?jati=9786DACB-8D39-45A6-6F1B-B660A5015F38>.

The closing date for application is 30 June 2020.

From: Billy Todd <btodd@swin.edu.au>

MISCELLANEOUS

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