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

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CONFERENCES

Spring College on the Physics of Complex Systems,
24 Feb - 20 Mar 2020, The Abdus Salam ICTP, Trieste (Italy)

Lecturers and Courses:
M. Bandi (OIST, Okinawa, Japan) Fluctuations and Information in Physical Systems
R. Ramaswamy (Indian Institute of Technology, Delhi, India) Synchrony in nonlinear dynamical systems
S. Redner (Santa Fe Institute, New Mexico, USA) A Kinetic View of Statistical Physics
A. Silva (SISSA, Trieste, Italy) Quantum systems out of equilibrium
L. Zdeborova (CNRS, Paris, France) Statistical Mechanics toolbox for Machine Learning
Applications and Rules for Participation: http://indico.ictp.it/event/9024/ Deadline: 15 November 2019.

From: Matteo Marsili <marsili@ictp.it>

Physics Informed Machine Learning, Santa Fe, January 13-17, 2020

The 3d workshop seeks perspectives on leveraging the deep connection between machine learning and physics, with the goal to better understand and model physical systems, both static and dynamic. Topics include methods from statistical and deep learning, graphical models, optimization and tensor networks, as well as their applications in physics, computer science, biology, dynamical systems, novel computational paradigms, fluid mechanics and turbulence. Abstract submission and travel grant application deadline is November 15, 2019. For more details, see: cnls.lanl.gov/piml2020

From: Andrey Lokhov <andrey.lokhov@gmail.com>

POST-DOC POSITIONS

PostDoc Position Equity Factors identification through non-Gaussian features extraction, Paris, France

The number of "risk factors" today available is huge (400+) and expanding. From a purely statistical perspective, a number of questions have been raised and remain controversial: What is the effective number of factors? How is their risk rewarded? How significant are overfitting and in-sample biases? We open a postdoctoral Position within the CFM Econophysics & Complex Systems group (www.econophysiX.com), under the supervision of M Benzaquen, co-supervised by S Ciliberti and JP Bouchaud. Exploring the Independent Component Analysis (ICA) methodology, we wish to find a robust protocol for factor identifications which would be sound from an economic perspective. A good background in statistical physics, data analysis and Python is advised.

From: Michael Benzaquen <michael.benzaquen@ladhyx.polytechnique.fr>

Postdoctoral opening in theoretical biophysics, Virginia Tech, VA, United States

The Biomaterials Theory Group led by Prof. Nadir Kaplan at Virginia Tech Department of Physics (Blacksburg, VA) invites applications for a postdoctoral position in theoretical biophysics with a focus on Hard and Soft Matter Interfaces in Biomineralized Systems. The anticipated start date is Spring 2020 and is negotiable. The appointment will be initially for one year and may be extended for an additional year subject to performance

and availability of funding. Review of applications will begin on December 1, 2019 and continue until the position is filled. For details: https://academicjobsonline.org/ajo/jobs/15373

From: Nadir Kaplan <nadirkaplan@vt.edu>