



Statistical Learning Postdoctoral Fellowship Starting Summer/Fall 2019



The Quantitative Life Sciences (QLS) section of the Abdus Salam International Center for Theoretical Physics (ICTP) seeks applications for a postdoctoral position starting summer/fall 2019 from outstanding young scientists of any nationality with a strong research record. The ICTP is a UNESCO Category 1 research institute supporting science and education in the developing world. It promotes worldwide initiatives for the career development of Women in Science.

The QLS section provides a unique international research environment for postdoctoral fellows with about 15 group members (faculty, postdocs, graduate students and visitors), an intense programme of workshops and conferences, close collaborations with local institutions (SISSA, ICGEB, Trieste University) and internationally renowned research institutions (ENS Paris, EPFL, IPHT, UCSD, NTNU, MPIPKS, Aalto University). The QLS section has expertise in a broad range of fields including statistical physics of information processing, information theory, statistical learning (mathematical and applied aspects), reinforcement learning, algorithms, stochastic processes and thermodynamics etc. Postdoctoral fellows are encouraged, and supported, to participate in activities in developing countries in order to promote the mission of the ICTP.

Candidates should have a background in mathematics (probability, statistics), theoretical physics (statistical physics), computer science, information theory, electrical engineering and/or related disciplines, and be able to carry out active, independent and multidisciplinary research in the following areas:

Statistical Inference & Learning: Mathematical & Algorithmic Aspects

High-dimensional statistics, probability, statistical inference, signal processing, machine learning, neural networks, analysis of algorithms, statistical physics, spin-glass models, information theory, error-correcting codes, discrete mathematics, combinatorial optimization.

Candidates with expertise in numerical implementation of inference and machine learning algorithms, in addition to the analytic skills, are especially encouraged to apply. The take-home monthly salary will be in the range of 2100 — 2,300 EUR (depending on seniority). Benefits include health insurance, a pension contribution, and special allowances for family members. Appointments will be made for two years, with the possibility of renewal for one more year.

Applications and expressions of interest are welcome. Applications should include a cover letter, an updated CV including the full list of publications, a statement of research interests, and two or more letters of recommendation. Applications must be submitted on-line at: [online application](#). Incomplete applications will not be considered.

For additional enquiries, and expressions of interest, please contact: qls@ictp.it
Application deadline: **July 1, 2019**.