A PhD position is available in the area of large random matrix theory applied to signal processing and machine learning.

Research fields include statistical estimation, spectral clustering, and neural network-related problems in the light of large random matrix theory. From a purely mathematical aspect, the focus will be on the spectral behavior of some classes of large random matrices, such as non-Hermitian random matrices as well as so-called kernel random matrices.

The position will be hosted by SUPELEC, under the supervision of Prof. Romain COUILLET (http://couillet.romain.perso.sfr.fr/) with close collaborations with the computer science department at Ecole Normale Supérieure of Ulm and the communication and signal processing departments at Telecom ParisTech. The three schools are leading French electrical engineering, computer science, and mathematics schools located in Paris, France.

The candidate is expected to have a solid background in probability theory, in statistics, as well as possibly in electrical engineering or computer science.

The contract is a standard three-year French PhD student contract, starting around October to December 2014.

A competitive remuneration will be offered.

Interested applicants should email a short statement of research interests and a CV to Romain COUILLET: romain.couillet@supelec.fr