

## 1 PhD And 4 Postdoc Positions At Supelec, Group Laneas

Several positions are open at Supélec, group LANEAS (<http://www.laneas.com/>), to be filled as soon as suitable candidates are found:

\* **1 PhD student** on random matrix theory for machine learning/big data. The student must have a strong background in mathematics and in particular probability theory, and should have some basic knowledge about machine learning and signal processing.

\* **4 Postdoc positions:**

- 1 position in random matrix theory for wireless communications. This position, attached to a contract with Huawei, requires a student knowledgeable of RMT and wireless communications. The work will be on several considerations of multi-user MIMO communications.

- 1 position at Supélec/Telecom ParisTech in random matrix theory in non Hermitian settings. Here a math expert in the domain is expected. No knowledge about application fields is required.

- 2 positions in machine learning or large dimensional signal processing at large. These positions are open to students with large autonomy on the aforementioned topics. Their work will be to hold a leading position in the LANEAS group and will involve supervision of PhD students and interns in their dedicated fields. Strong mathematical background is demanded. Areas of expertise may cover, non exhaustively, distributed optimization, game theory, random matrix theory, compressive sensing, stochastic geometry, distributed caching, wireless networks, etc.

\* *Internship applications are also accepted, in view of future PhD positions.*

The advisors will be Prof. Romain COUILLET and Prof. Mérouane DEBBAH, at Supélec. Collaborations with Telecom ParisTech and ENS Ulm will be made in the course of the projects. For more information and for applications, please send an email to [romain.couillet@supelec.fr](mailto:romain.couillet@supelec.fr) .