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**Post-Doctoral Position M/F**  
(Reference: DS\_MF\_ING\_AXA\_052017)

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<b>Research topics</b>	<b>Large-scale Probabilistic Nonparametric Modeling</b>
<b>Department</b>	Data Science
<b>Publication date</b>	03 May 2017
<b>Start date</b>	Mid 2017
<b>Duration</b>	18 Months
<b>Description</b>	<p>We are seeking to appoint an excellent post-doctoral researcher to work on the development of novel advanced statistical methodologies in the area of probabilistic nonparametric modeling, with applications in life sciences.</p> <p>The main focus of the project is to develop novel inference and computational methods to accurately and tractably quantify uncertainty in probabilistic nonparametric models. In particular, the project will target the application of probabilistic kernel machines, such as Gaussian processes and their "deep" extension, to large-scale data modeling problems. The successful candidate will develop and apply a range of techniques in Markov chain Monte Carlo inference, stochastic variational inference, linear algebra, and their parallel and distributed versions. A large portion of the project will be dedicated to the development of novel methodology, but the project will also contain an exciting component of applied work in life sciences, and in particular in neuroscience.</p> <p>The project is linked with a Chair in Computational Statistics entitled "Novel Computational Approaches to Risk Modeling" awarded to Dr Filippone from the AXA Research Fund for the duration of 7 years (2016-2023). The successful candidate will participate in the research activities in machine learning in the Department of Data Science at EURECOM, and will engage in a number of exciting ongoing international collaborations. It is also expected that the successful candidate will take a leadership role in supporting the supervision of Ph.D. and Masters' students.</p> <p>Main tasks and responsibilities include:</p> <ul style="list-style-type: none"><li>- Discuss, plan, and perform research in a stimulating environment</li><li>- Develop statistical approaches for data analysis from fundamental principles</li><li>- Publish findings in peer-reviewed journals and present at international conferences</li><li>- Produce software tools to enable for the use of the wider scientific community</li><li>- Assist with the supervision of students and more junior staff</li><li>- Work in an interdisciplinary team of international scientists</li></ul>
<b>Requirements</b>	<p>Essential (E) and desirable (D) requirements include:</p> <ul style="list-style-type: none"><li>- (E) - Completion of a doctoral degree in Computer Science, Statistics, Physics, Mathematics, Neuroscience or related disciplines</li><li>- (E) - High proficiency in programming with languages such as Python, MATLAB, R or C++</li><li>- (E) - A strong publication record in competitive peer-reviewed journals and conference proceedings</li><li>- (E) - Excellent written and oral communication skills, and effective team-work skills</li><li>- (E) - We are looking for highly self-motivated candidates who are curious and enthusiastic about scientific research, and have a proactive attitude</li><li>- (D) - Experience with life science applications and track record of publication are desirable</li></ul>

**Application**

The application must include:

- Covering letter
- Curriculum Vitae
- Name and contact details of two referees

**A "soft" deadline to submit applications is \*\*\* 01 June 2017 \*\*\* - that is - the first batch of interviews will happen shortly after this deadline. Applications will be accepted until the position is filled.**

**Applications should be submitted by e-mail to [maurizio.filippone@eurecom.fr](mailto:maurizio.filippone@eurecom.fr) and [secretariat@eurecom.fr](mailto:secretariat@eurecom.fr) with the reference: DS\_MF\_ING\_AXA\_052017.**

**For additional information or informal queries please email Dr Filippone at [maurizio.filippone@eurecom.fr](mailto:maurizio.filippone@eurecom.fr)**

**Postal address**

CS 50193 - 06904 Sophia Antipolis, France

**Contact**

[secretariat@eurecom.fr](mailto:secretariat@eurecom.fr)

**Fax number**

+33 4 93 00 82 00

*EURECOM is a French graduate school and a research center in digital sciences based in the international science park of Sophia Antipolis, which brings together renowned universities such as Télécom ParisTech, Aalto University (Helsinki), Politecnico di Torino, Technische Universität München (TUM), Norwegian University of Science and Technology (NTNU), Chalmers University (Sweden) and Czech Technical University in Prague (CTU). The Principality of Monaco is a new institutional member. The Institut Mines-Télécom is EURECOM's founding member.*

*EURECOM benefits from a strong interaction with the industry through its specific administrative structure: Economic Interest Group (kind of consortium), which brings together international companies such as: Orange, ST Microelectronics, BMW Group Research & Technology, Symantec, Monaco Telecom, SAP, IABG.*

*EURECOM deploys its expertise around three major fields: Digital Security, Data Science and Communication Systems. EURECOM is particularly active in research in its areas of excellence while also training a large number of doctoral candidates. Its contractual research is recognized across Europe and contributes largely to its budget.*

*Thanks to its strong ties set up with the industry, EURECOM was awarded the "Institut Carnot" label jointly with the Institut Telecom right from 2006. The Carnot Label was designed to develop and professionalize cooperative research. It encourages the realization of research projects in public research centers that work together with socioeconomic actors, especially companies.*

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EURECOM specifically encourages women to apply with a view towards increasing the proportion of female researchers.

EURECOM Campus SophiaTech – CS 50193, F-06904 Sophia Antipolis Cedex – [www.eurecom.fr](http://www.eurecom.fr)