



Position: Senior Research Scientist on Applied Machine Learning (Statistical Learning)

The Network and Traffic Optimization research team of the Mathematical and Algorithmic Sciences Lab, Huawei France Research Center, located in the Paris area, is looking for candidates for a permanent research position on Machine Learning to commence by the end of the year. The research will focus on developing algorithms and novel network analysis schemes to drive research and innovation in the context of advanced traffic engineering. The successful candidate will be involved in the development of competitive solutions Intelligent Network Management systems.

Major Responsibilities:

- Lead research and innovation in machine learning to improve data center networks performance and decrease the cost of operation.
- Identify future business and technologies requirements in machine learning and networking, especially, use the artificial intelligence in network. Collaborate with other units to ensure the successful exploitation of research outputs.
- Responsible for theory exploration, advanced algorithm design, analysis, and performance evaluation to meet challenging business requirements.
- Generation of intellectual property through the patenting of ideas.
- Responsible for the quality of project deliveries
- Disseminate research outputs in major research and industry events worldwide.
- Create and maintain strong collaborations with academia, industry and research agencies.
- Contribute to the creative and innovative atmosphere in Huawei Research Labs.

Required Degree: PhD **Experience:** 10+ years **English:** Operational

Specific Requirements:

Candidates must have a strong background in Statistical Learning in the context of Machine Learning and experience in system design, algorithm development, and simulation of networked systems. In addition, the following skills and experiences are highly desirable:

- PhD Degree in Applied Mathematics or Computer Science
- Solid background on machine learning and data center networking
- Good knowledge of standard statistical learning tools (e.g., regression methods, kernel methods, artificial neural networks, reinforcement learning).
- Good knowledge of standard stochastic optimization paradigms (MDPs, dynamic programming) and sequential learning algorithms (multi-armed bandits)
- Good Knowledge of network architectures, data center architectures and protocols Proficiency with machine learning tools (R, Sage, SciPy, Matlab)
- Practical experience with big analytics tools (Hadoop, Spark, Storm, Flink) will be a plus
- Familiarity with low-level development languages (C/C++) will be a plus.
- Solid publication record in machine learning applied to networking problems

Candidates must have the ability to conduct independent research while also contributing to team-oriented projects that often span across multiple international Huawei research sites.

Huawei is a leading global information and communications technology (ICT) solutions provider. Through our dedication to customer-centric innovation and strong partnerships, we have established end-to-end advantages in DC network telecom networks, devices and cloud computing. We are committed to creating maximum value for telecom operators, service provider, enterprises and consumers by providing competitive solutions and services. Our products and solutions have been deployed in over 140 countries, serving more than one third of the world's population.

To apply please send a complete CV, two reference persons and a cover letter briefly explaining your expertise and research interests. Applications should be submitted by email to:

jeremie.leguay@huawei.com and sonia.rodriguez@huawei.com