

# Ørsted Lecture at DTU

**Lecturer:** Professor Zoubin Ghahramani, Department of Engineering,  
University of Cambridge

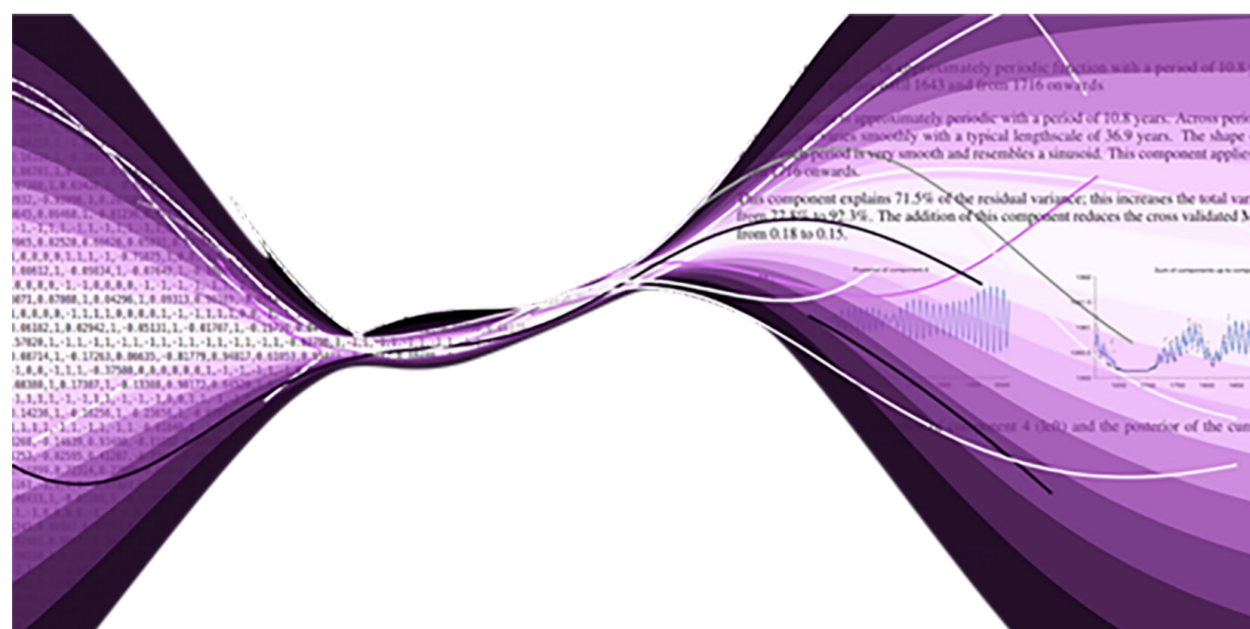
**Title:** Probabilistic Machine Learning:  
Artificial Intelligence and the Automation of the Data Sciences

**Time and place:** Monday, April 24 at 14:00

Technical University of Denmark, Building 303A, Auditorium 42,  
Asmussens Allé, Kongens Lyngby

## Abstract

How can a machine learn from experience? Probabilistic modelling provides a mathematical framework for understanding what learning is, and has therefore emerged as one of the principal approaches for designing computer algorithms that learn from data acquired through experience. The field of machine learning underpins recent advances in artificial intelligence, and data science, and has the potential to play an important role in scientific data analysis. I will highlight some current areas of research at the frontiers of machine learning, including our project on developing an Automatic Statistician.



Zoubin Ghahramani is Professor of Information Engineering at the University of Cambridge and the Cambridge Liaison Director of the Alan Turing Institute, the UK's national institute for Data Science. He is also the Deputy Academic Director of the Leverhulme Centre for the Future of Intelligence. He studied computer science and cognitive science at the University of Pennsylvania and received his PhD from MIT in 1995. He was a postdoctoral fellow at the University of Toronto. His academic career includes concurrent appointments as one of the founding members of the Gatsby Computational Neuroscience Unit in London. He was elected a Fellow of the Royal Society in 2015.