

Machine Learning and Physics Seminar Series

Thursday, 17 October 2019 at 2.30pm
Dennis Sciama Lecture Theatre, Denys Wilkinson building

ML Approaches for Scientific Computing

Professor Peter Braam
University of Oxford

Machine Learning methodologies and tools have delivered new approaches to scientific computing ranging from new approximation methods to solve differential equations to leveraging advantages of ML hardware over traditional HPC hardware. It is not unlikely that such approaches will be helpful to computational problems that have seen little progress for decades. We will discuss a few examples, and discuss key themes in carrying this forward.

Peter Braam is a scientist and entrepreneur focused on problems in large scale computing. Originally trained as a mathematician, he has worked at several academic institutions including Oxford, CMU and Cambridge. One of his startup companies developed the Lustre file system which is widely used. During the last few years he has focused on computing for the SKA telescope and on research in data intensive computing. Peter is a Visiting Professor of Physics at Oxford University.