

OeAW-ISTA Lecture

AI for the Sciences: towards understanding

Klaus-Robert Müller

BIFOLD & TU Berlin



22 September 2026
6:00 PM

Austrian Academy of Sciences
Festive Hall
Dr. Ignaz Seipel-Platz 2
1010 Vienna

Introduction

Ulrike Diebold, Vice-President of the Austrian Academy of Sciences (OeAW)

Gaia Novarino, Executive Vice President and Vice President for Science Education (ISTA)

OeAW-ISTA Lecture

In recent years, machine learning (ML) and artificial intelligence (AI) methods have begun to play a more and more enabling role in the sciences and in industry. In particular, the advent of large and/or complex data corpora has given rise to new technological challenges and possibilities. In his talk, Müller will touch upon the topic of ML applications in the sciences, in particular in medicine and if time permits also in chemistry. He will also discuss possibilities for extracting information from machine learning models to further our understanding by explaining nonlinear ML models. Finally, Müller will briefly discuss perspectives and limitations.

Klaus-Robert Müller is Professor for Machine Learning at TU Berlin and at Korea University, Seoul. He is director of BIFOLD – one of 5 permanently funded German national AI centers. He is a member of Leopoldina, BBAW and Acatech and an external scientific member of the Max-Planck Society. Among others he received the Berlin Science prize, the Vodafone Innovation Award, the Hector Science award, the Feynman award, the IEEE CIS Neural Network Pioneer Award and the Gottfried Wilhelm Leibniz prize. Consecutively from 2019 on he became ISI Highly Cited Researcher. His research interests are in AI for the sciences and in the foundations of AI.

The Austrian Academy of Sciences (OeAW) and the Institute of Science and Technology Austria (ISTA) initiated a joint lecture series in 2016, aiming to bring to Austria speakers of the highest international standing active in fields that are of mutual interest to both institutions and to a wider public.

CONTACT

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REGISTRATION

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