



United Nations
Educational, Scientific and
Cultural Organization



ICTP - East African Institute
for Fundamental Research
under the auspices of UNESCO

High Energy and Cosmology Seminar

A Walk through the Landscape of Reinforcement Learning

Speaker: **Jonathan Shock** (University of Cape Town)

Date and time: **Wednesday, 23 February 2022 at 16:00 (GMT+2)**

Physical venue: **EAIFR's conference hall** (top floor)

Zoom Meeting ID: 821 6573 0200 ([Zoom link](#)) Passcode: 228897



Abstract:

This is a very introductory walk through some of the basic ideas of reinforcement learning - the third arm of machine learning which is perhaps less often talked about than supervised and unsupervised learning, but which is showing fascinating promise as well as giving us plenty of questions about our own interactions with the world. It is the study of how agents interact with the world using trial and error. I will discuss some of the most fundamental algorithms in RL, from model based to model free learning and show some of the recent advances and challenges that we still face in this area.

The seminar will be streamed in the conference hall on EAIFR's top floor (EINSTEIN Block, former "KIST2" Building, UR-CST, Nyarugenge campus)

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