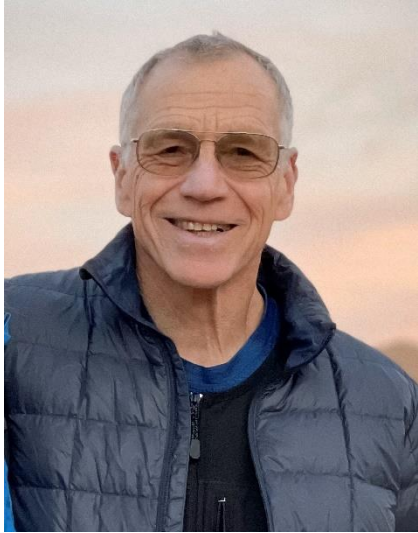




HARVARD UNIVERSITY
17 Oxford Street
Cambridge, MA 02138

Mathematical Picture Language Seminar



Tuesday, September 10

4:45 p.m. Boston time

Jefferson 356 and Zoom

Michael Freedman

Harvard University

What can ML learn from the proof of the Kolmogorov-Arnold theorem

Abstract: The Kolmogorov-Arnold representation theorem shows that even very shallow, non-linear neural nets can express general continuous multivariate functions. I will begin by giving a proof. The theorem has often been regarded as "irrelevant" to machine learning because of the unrealistic precision required in its representation of Real numbers. I agree with this criticism but will present another path to ML-relevancy - not of the statement but of the proof.



Zoom QR Code & Link:

<https://harvard.zoom.us/j/779283357?pwd=MitXVm1pYUJlVzZqT3lwV2pCT1ZUQTog>

Passcode: 657361

<https://mathpicture.fas.harvard.edu/seminar>