

Physics meets Biology Webinar

Wednesday, December 16th, 2020 at 4 pm

Talk by Dr. Nazim BOUATTA

Harvard Medical School
(invited by Prof. Massimiliano ESPOSITO)

'Through the glass darkly': DeepMind AI at the protein olympics!

Abstract:

At CASP14, the biennial competition for protein structure prediction, researchers at DeepMind, Google's premier AI research group, declared that they have solved the 'protein folding problem.' In my talk, I'll try to convey a nuanced view of DeepMind's results and CASP14. I'll first unpack the many meanings of the 'protein folding problem.' I'll explain the magnitude of DeepMind's leap for predicting protein structures in quantitative terms. I'll end by speculating on DeepMind's method and network architecture.

Biography:

Dr. Nazim Bouatta is Senior Research Fellow in the Laboratory of Systems Pharmacology at Harvard Medical School. He obtained his PhD in Theoretical Physics at Université Libre de Bruxelles.