

# From Graph Neural Networks to Explainable AI: comprehending and trusting Machine Learning algorithms



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## Keynote talk: Actionable and responsible AI in medicine

*Thursday, September 21, 2023 5:30 PM (1 hour)*

In this talk Professor Lio will present applications of AI in medicine, focusing on how to build a digital patient twin using graph and hypergraph representation learning and considering physiological (cardiovascular), clinical (inflammation) and molecular variables (multi omics and genetics). He will discuss methodologies that help keeping the clinicians in the loop to avoid excessive automatization using logic and explainer frameworks.

Pietro Liò Is Professor in Computational Biology in the AI division and internationally leading researcher in Machine Learning and Computational Biology, member of the Cambridge centre of AI and Medicine and The European Laboratory for Machine Learning (Ellis). He holds two PhDs: one in nonlinear dynamics and complex systems and the second in genomic sciences, therefore interfacing complex systems, machine learning and biomedicine. He is currently contributing the scientific community in developing graph representation learning methods and enhancing their interpretability, particularly in the biomedical fields.

**Presenter:** Prof. LIÒ, Pietro (University of Cambridge)