Vice-Chancellor’s PhD Scholarships

**Application of Artificial Intelligence to identify predictors of cardiometabolic health from complex diet and lifestyle data.**

## School of Human Sciences and School of Computing and Digital Media

A healthy diet has long been recognised as an important factor to reduce the risk of cardiometabolic disease. The constituents of a healthy diet form the basis of healthy living guidelines. However, a key challenge is to identify nutrients, food and lifestyle patterns that can be predictive of longer term cardiometabolic disease. Traditionally, standard statistical models have been used to predict health outcomes but with limited success due to the complex interactions and nonlinear associations between diet-related data and health outcomes.

Artificial Intelligence (AI) based approaches show great potential in this field because of their capacity to better capture such complexity. This project aims to use AI to identify predictors of health outcomes from complex diet and lifestyle data available from epidemiological studies in the UK and USA.

This exciting cross-disciplinary project will help establish AI-based approaches for nutritional data research and will develop a PhD candidate with expertise in artificial intelligence and statistical approaches in the context of nutritional research and epidemiology.

For informal enquiries about the project, please contact:

Prof. John Lodge [j.lodge@londonmet.ac.uk](mailto:j.lodge@londonmet.ac.uk) or

Dr Elaheh Homayounvala [e.homayounvala@londonmet.ac.uk](mailto:e.homayounvala@londonmet.ac.uk)