

## **Department of Statistics Archive of Industrial Speakers' Seminars - Michaelmas Term 2022**

**Monday 12 December, 3.30 - 4.30pm - Reza Khorshidi (University of Oxford)**

This event will take place in the Leverhulme Library COL 6.15.

**Title:** Model.fit() to Market.fit(): A path towards turning ML research into ML products

**Abstract:** Scientists in the field of machine learning (ML) – including deep learning (DL) -- aspire to build better models (usually judged by beating SOTA in well-defined tasks and datasets). Successful applications of such models, on the other hand, are about product-market fit (PMF) in environments with ever-growing complexities. As many expect ML to play a bigger role in our society, ML scientists' ability to influence this journey will depend on putting ML research in a PMF context and vice versa (i.e., optimising for market.fit() and model.fit(), instead of optimising for model.fit() alone). Therefore, in this talk, I aim to cover some general topics about building ML products in the “real world”, using examples from domains such as medicine and finance.

**Biography:** Reza is currently a PI (in machine learning and biomedicine) at Deep Medicine program of The University of Oxford. He was the Chief Scientist at AIG (until Jul 2023), where he led Investments AI; a group of ML scientists, engineers, designers and product managers, primarily focused on the development of AI-first products in FinTech, and for AIG's investment and insurance businesses. Reza's research at Oxford is focused on probabilistic ML, and neural sequence models for the development of personalised biomedical predictions and recommendations, as well as an improved understanding of multi-morbidity.