



## **A ONE DAY INTRODUCTION TO MACHINE LEARNING**

Friday 15th February 2019, The Studio, Birmingham

### **PROGRAMME**

- 09:00 – 09:30 **Coffee and registration**
- 09:30 – 09:40 **Introduction**  
Jonathan Taylor, Sheffield Teaching Hospitals
- 09:40 – 10:10 **Introduction to machine learning: Basic Concepts**  
Dr Sarah Gulliford, University College London Hospitals NHS Foundation Trust
- 10:10 – 10:50 **Principles of Training and Validation**  
Dr James Leighs, University Hospitals Southampton
- 10:50 – 11:00 **Discussion**
- 11:00 – 11:20 **Coffee**
- 11:20 – 11:50 **Classical Algorithms for Classification Tasks**  
Dr David Towey, Northampton General Hospital
- 11:50 – 12:30 **Neural Networks**  
Prof Nasir Rajpoot, Warwick University
- 12:30 – 12:40 **Discussion**
- 12:40 – 13:30 **Lunch**
- 13:30 – 14:10 **Applications in Medical Physics**  
Dr Jorge Cardoso, King's College London
- 14:10 – 14:50 **Development of Machine Learning Algorithms: Worked Examples**  
Dr Zach Eaton-Rosen, King's College London
- 14:50 – 15:00 **Discussion**
- 15:00 – 15:20 **Coffee**
- 15:20 – 15:50 **Challenges of Clinical Implementation**  
Jonathan Taylor, Sheffield Teaching Hospitals
- 15:50 – 16:15 **Questions/discussion**
- 16:15 **Close**

*Programme subject to change*