

## Ajit Pillai

2018 – Lecturer – University of Exeter 2016-2018 – Postdoctoral Research Fellow – University of Exeter 2012-2016 – Offshore Wind Research Engineer – EDF Energy/University of Edinburgh

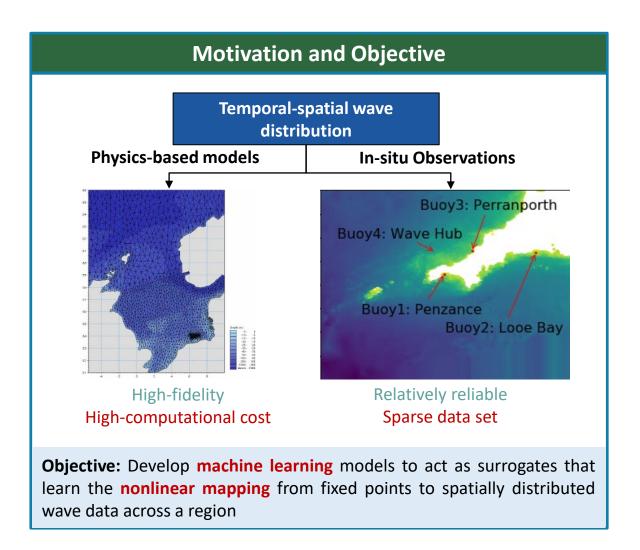
2019 - PI – EPSRC I-CASE Studentship – Autonomous Systems for Offshore Wind O&M 2019 - Co-I EPSRC Supergen ORE Hub FlexFund – Accounting for Current in Wave Buoy Measurements

2020 – Co-I – InnovateUK KTP – Machine Learning for Structural Health Monitoring 2020 – Co-I – EU Interreg-Channel – EuroSwac

2020 – PI – EPSRC Supergen ORE Hub FlexFund – Machine Learning for Low Cost Offshore Modelling

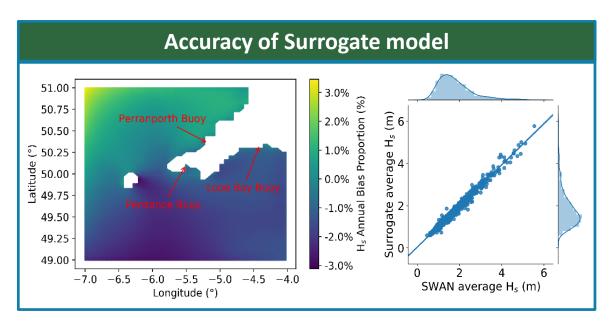
## **AIMS AND OBJECTIVES**

 Malcom aims to demonstrate a machine learning system that can integrate metocean sensor networks and physical models, to improve the provision of met-ocean data





## **PRELIMINARY RESULTS**



- At the Wave Hub buoy, the surrogate model outperforms SWAN for now-casts in all four parameters
- RMSE of surrogate  $T_Z$  predictions was half that of SWAN predictions
- Offers instant access high-accuracy model output with limited computational requirements

