



## MSc Applied Data Science and Statistics

### Student Projects – 2019/20

Listed below are some of the Project titles from students studying the programme in 2019/20.

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Assessing improvements in Air Quality due to Covid-19.

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Quantifying the global variability in the health effects of air pollution.

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Predicting attacks in Ménière's Disease.

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Optimising a LoRaWAN Network in Cornwall and the Isles of Scilly.

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Modelling Nucleosome Positioning with Gaussian processes.

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Application of Natural Language Processing in Stock Market prediction: Support Vector Machine and LSTM.

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Short term forecasting of harmful algal blooms (HABs) in South West England aquaculture sites.

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Utilising machine learning to investigate electrical activity in ventricular myocytes.

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Decadal Variability of Air Quality in Latin America and the Caribbean and Climate Change: El Niño and La Niña events.

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Using Agent-Based Modelling to estimate personal exposure to PM2.5 in Devon.

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A Parametric Study of Deep Q-Networks applied to a Battery Management in Grid Connected Photovoltaic System with Time-of-Use Tariff.

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Using Big Data to Explore Temporal and Geographic Patterns of Psychology Problems: Depression, Anxiety, and Stress.

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Green Transport Recovery - Investigating the Efficacy and Sustainability of Post-Lockdown Transport Options in Exeter.

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The Impact on Reopening School by modelling the effectiveness of "Student Bubble" under COVID-19 epidemics.

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Large Scale Data Visualisation of Scottish Archaeology: Integrating statistical analytics to determine the impact of reporting and the optimum method for coin classification.

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Using statistical data modelling for quantifying evidence for the Avian Quantum Compass.

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The impact of Covid-19 self-isolation on utility usage.

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Mapping Global Air Quality.

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Investigating risks of Air Pollution on Global Health.

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