

Alexis J. Drakopoulos

(+44) 0741 3535 033
alexis.drakopoulos95@gmail.com
www.alexis-drakopoulos.com
GitHub: alexisdrakopoulos

Education

- Exp. 2020 **University of Edinburgh,**
MSc. Computational Applied Mathematics.
- July 2019 **University of Strathclyde,**
BSc. Mathematics & Physics.
1st Class Honours
Award: Frank Leslie prize, for achieving the highest class grade.

Research

- May 2019 - **Deep Learning Research,** UNIVERSITY OF STRATHCLYDE.
Present Project Supervisor: *Dr. Ben Hourahine*
- Investigated the potential differences in performance between regression and classification architectures in deep CNN architectures.
 - Wrote efficient Markov chain Monte Carlo algorithm for data generation.
 - Implemented scale-able procedures to train models on AWS EC2 p3 instances and perform large-scale experiments.

Experience

- Aug - Nov 2018 **Machine Learning Intern,** BENTLEY SYSTEMS.
- Implemented statistical methods for the operational analytics team working on the Amulet calculation engine.
 - Worked primarily on modelling time series sensor data for industry clients.
 - Wrote an ensemble ARIMA forecasting model that was deployed to production.
 - Wrote documentation with compliance to industry standards.
 - Served TensorFlow model using Faster RCNN for object detection on live video.
- May - Aug 2017 **Research Assistant,** RESEARCH CAMPUS AT HARWELL.
- Completed five days of I-12 beamtime at the Diamond Light Source synchrotron.
 - Experimental lead for two days, optimized parameters to improve efficiency.
 - Worked with Prof. Peter Lee, Manchester University and Rolls Royce scientists on additive manufacturing research.

Languages & Technologies

- Python Scientific computing experience, as well as automation and machine learning.
- R Experience with Tidyverse ecosystem, time series and anomaly detection.
- C++ Fundamental knowledge.
- Databases Working proficiency with SQL and relational databases (PostgreSQL, MySQL).
- Technologies Git, Amazon Web Services, Google Cloud Engine.
- Languages Native English and German speaker.