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# Alexis J. Drakopoulos

## 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.

## Experience

May - Sep 2020 **Research Engineer Intern - Computer Vision**, VisioLab.
- Researching incremental and metric learning in few-shot computer vision.
- Working on a test environment for evaluation of incremental learning algorithms for model-agnostic and reproducible research.

May - Sep 2019 **Deep Learning Research**, University of Strathclyde.
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.

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 Complex 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.

Technologies — Git, Amazon Web Services, Google Cloud Engine.

Languages — Native English and German speaker.