Cameron Oscar Buhaenko Michie

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EDUCATION

University of Manchester **Manchester, UK**

BSc Physics with Theoretical Physics (2:1) 09/2020 – 06/2023

Analytical problem solving, mathematical methods, analysing large datasets and building models using C++, Python.

- Programming modules: *Object Orientated Programming in C++*, *Markov chain Monte Carlo (MCMC) Models*.

Monmouth School **Monmouth, UK**

- A-Level: A* A* A* A in *Physics, English Literature, Maths* and *Further Maths* 09/2013 - 03/2020
- GCSE: 5 grades at A*, and 5 grades at 9.
- *Deputy Head of School, Captain of Boats (Rowing).*

Bloomberg Market Concepts Certification Completed 02/2022

EMPLOYMENT

Ably Realtime **London, UK**

Developer Success Manager – Intern 09/2023 - *Present*

I was the pioneering Developer Success Manager at Ably, and worked at driving customers to convert from free to paying users (and from paying users to paying more).

- This required a data driven approach for discovering the key metrics which indicated conversion, and deriving insights directly from querying SQL, techniques such as principal component analysis, and training neural networks.
- I developed an outreach strategy for learning more about the usage habits of recently upgraded users, to better target free tier users with potential to upgrade, developing metrics to track my progress.
- I tackled technical support queries, completing an accreditation programme to be the primary technical support engineer online at a time, which meant developing my technical skills for responding to technical support tickets.
- I engaged in overhaul projects of the faq.ably.com website and the webchat bot workflow, developing the ways customers interact with the product to maximise the accessibility of information and services.

Innovative Technology Ltd. **Oldham, UK**

Data Science Summer Intern 07/2022 – 09/2022

My primary project was to implement Particle Swarm Optimisation (PSO) on banknotes to search for the regions on which AIs performed best in a binary classification task (real vs fake) for deployment in banknote validators, boosting fake rejection from 97.0% to 99.8%.

- Researched and produced effective machine learning code in Python and C++ involving neural networks and SVMs.
- Lead an optimisation project into deployment in a data science pipeline using Jira and Git in an Agile framework.
- Use of advanced data visualisation techniques including animation using Python and matplotlib.

ISIS Neutron and Muon Source, STFC RAL **Harwell, UK**

Research Physics Work Experience 07/2019 - 09/2019

I worked on the TOSCA instrument with Dr Svemir Rudic, collecting and analysing neutron scattering data while researching the lattice structure of theorised new ice XVII at near 0K temperatures and at extreme ranges of pressures.

PROJECTS, LEADERSHIP AND VOLUNTEERING

MAMOC Blog – mamoc.netlify.app **UK**

Co-founder 08/2023 - *In development*

- Produce technical long-form articles and posts about interesting mathematical and computational topics.
- A specific focus on generating data to create interesting visualisations.
- Proposed topics include PINNs, Turing pattern generation, bubble formations at phase transitions.

Manchester University Boat Club **Manchester, UK**

Senior Mens' Captain and *Senior Mens' Coach* 05/2021 – 05/2023

- How to motivate, manage expectations, and give constructive criticism from a leadership position.
- Executing a training strategy that balances both long-term and short-term goals.