

Iain McLaughlan

PUBLIC HEALTH SCOTLAND · PHYSICS GRADUATE · RYA SCOTLAND LASER PERFORMANCE TEAM HEAD COACH · RYA SCOTLAND LASER ACADEMY PROGRAMME HEAD COACH

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Summary

I am a motivated individual who seeks performance in all aspects of my life. Whether that be in work, looking to refine, optimise, and improve; in coaching where I work to produce the highest performing sailors in the country; or in sport (sailing) where I consistently look for the next edge that will make us faster and better.

I am a Healthcare scientist (epidemiologist) working for Public Health Scotland, where on top of my scientific role I play a large part in the real time data and analytics providing information and guidance relating to the COVID-19 vaccination effectiveness program.

With this and other projects, I use and have experience of a range of tech including Python, R, and C. My skill using these tools allows for fast development of performant solutions to many problems.

I am seeking a position that will provide challenging opportunities to use and develop my skills to solve new problems. This role will allow me to use leading edge technology and methodology to improve, adapt, and overcome.

Skills

Programming

Python, R, Django (python web framework), R Shiny (R web framework), Markdown / Rmarkdown, LaTeX, C, Business Objects, Tableau, SQL.

Data management

Database design and management, analysis and presentation to a range of audiences.

Electronics

Developed many small projects combining coding and hardware using Arduino, Raspberry Pi, and breadboard circuitry.

Employment

Healthcare Scientist (Epidemiologist)

UK, Scotland

PUBLIC HEALTH SCOTLAND

Mar 2021 - Present

As a healthcare scientist I have worked on Scotland's COVID-19 response by providing real time data and analytics, guidance, and public facing information on vaccine effectiveness and failures.

I have worked to develop surveillance systems that collect data from a range of data streams and combined them in novel ways to produce meaning from the data. I then clean, prepare, and analyse the data to be presented using a range of formats. These include written reports (one example can be found here: *PHS COVID-19 weekly statistical report*), presentations to partners, consultants and chief executives, and interactive web based dashboards.

Information Analyst

UK, Scotland

PUBLIC HEALTH SCOTLAND

Nov 2019 - Mar 2021

Accident and Emergency

I produced weekly, monthly and annual publications for the A&E team, which are presented to a range of different people from the Scottish Government to the general public and media. I had responsibilities in producing new reports and answering information requests. This involves having to balance delivering against a number of on-going projects, often requested in quick succession. I had to understand the importance of each and prioritise work and negotiate deadlines.

Drug and Alcohol Treatment Waiting Times

I produced monthly management reports as well as quarterly and annual publications where I had to understand the publication process carried out within PHS. I also worked on developing the new Drug and Alcohol Information System DAISy. Here I had been part of focus groups determining what functionality is best needed for the system from both a data collection and an analytical point of view. I developed the Open Data publication for the Drug and Alcohol Treatment Waiting Times team.

System Watch

I work with other analysts to produce daily data that provides boards and management with very up to date data and insights into the pressures in the health care system. Some of this data is shared amongst other PHS teams including HPS COVID teams. I am currently working on developing this system through testing to improve the robustness of the system with time.

Laser Performance Team Head Coach

UK, Scotland

RYA SCOTLAND

2017 - Present

I organise and deliver coaching sessions to the top youth (u21) sailors in Scotland. This involves communication with governing bodies, host venues and participants to organise each session. Each year I work with the sailors in the team to plan out a training program to allow them to perform at their best in the coming season and future careers. I have to work with them to set goals, plan for contingencies, and evaluate success at all points throughout their journeys.

Within this role, I have coached four UK national championship medallists, with one of my sailors this year being invited to be part of the UK's Olympic pathway program.

Laser Class Academy Head Coach

RYA SCOTLAND

UK, Scotland

2018 - Present

In this role, I organise, plan and deliver open training to sailors across Scotland. I have to liaise with host venues as well as communicating with the governing body and participants to organise training sessions. I lead a team of assistant coaches that I work with throughout the year. I have the responsibility for mentoring and helping these coaches develop their own coaching abilities. We hold a regular community of practice sessions with other coaches to share our experiences and develop our own abilities. I have taken a lead role in the set up and organisation of these continued professional development sessions.

I have also had the responsibility of working with the national governing body to produce COVID secure working guidelines to allow for our safe return to on the water coaching sessions.

Education

B.Sc.(Hons) in Physics

THE UNIVERSITY OF EDINBURGH

UK, Edinburgh

2015 - 2019

- Achieved a B.Sc.(Hons) 2:1 degree.

SQA Qualifications

GRYFFE HIGH SCHOOL

UK, Renfrewshire

2009 - 2015

- Advanced Higher: Maths A, Physics B, Chemistry B.
- Higher: Maths A, Physics A, Chemistry A, Biology A, History A.
- Standard Grade/Intermediate 2: 7 1s & 1 A.

Extracurricular Activity

Sailing Exercises Website

SAILINGEXERCISES.CO.UK

UK, Edinburgh

2020 - Present

To help organise coaching ideas helping myself and other sailing coaches I developed a website using the Django python web framework. This site acts as a collaborative database to store and find different sailing exercises that can be searched for inspiration based on criteria such as time availability, number of participants, etc. The site has its back end developed in python with the front end built using Javascript (and Typescript), HTML5 and CSS3. The site is deployed using Digital Ocean running a PostgreSQL database. The site has various flourish add ons such as using crontab to post updates and most recent posts to Twitter daily.

Performance Sailing Experience

ATHLETE

International

2007 - Present

I am a sailor who competes in many different types of sailing boats, in races both nationally and internationally. In the time that I have been racing, I have become a World, European, British and Scottish champion. This has happened mainly in the J111 class of sailing yacht where I competed as part of a team of 8 on the boat, and in the Laser which is a one-person sailing dinghy. As part of my progression through the sport, I have been part of several performance programmes:

- UK U21 Youth squad.
- Scottish U19 Squad.
- The University of Edinburgh Individual Performance Programme.
- Supported by the Scottish Institute of Sport.

Being part of these programmes and working with the people in them is what has allowed me to achieve the success that I have. These experiences taught me how to achieve high-level targets through performance thinking and goal setting. These are skills which I apply in other areas of my life to help achieve targets. An important skill that I have developed while taking part in all of these sailing activities is time management. I have had to plan my training alongside other work, such as school and university, to be able to balance top-level sport with my education.

Google Hash Code

PARTICIPANT

Edinburgh

2018, 2019 & 2020

- Developed problem solving skills under pressure with a time limit.
- Working on team coding challenges in small groups.

Hacktoberfest, DigitalOcean

PARTICIPANT

Edinburgh

2018, 2019 & 2020

- Had my first real experience contributing to open-source projects.
- Learned the basics of GitHub to allow me to help contribute to other peoples work.

Code Jam, Google

PARTICIPANT

Edinburgh

2019 & 2020

Competitive programming working with a range of different algorithms to solve challenging problems against the clock.