

Alastair Flynn

For a version with full contact information, please email me at contact@alastairflynn.com

Researcher using methods from data science and machine learning to solve practical challenges. Background in applied mathematics with a focus on numerical methods, algorithms and HPC. I am enthusiastic to find an opportunity where I can take on challenging projects which have merit to other people.

Skills & Achievements

Data Science & Machine Learning

- Neural networks (PyTorch) to perform remeshing in finite element simulations
- Neural networks (PyTorch) to interpret weather forecast data

Algorithms & HPC

- 98% mark in scientific computing module at the University of Bath
- Optimisation and parallel programming

Software Engineering

- Written, documented and published two Python libraries
- C++, Matlab, Fortran
- HTML, CSS, Angular, Django, REST API
- Linux, git
- Software documentation

General

- Interdisciplinary collaboration with experimental mechanical engineering group
- Teaching assistant for 5 courses: helping students, writing exercises, marking, managing student assistants
- Co-supervised student summer project

Personal

- Glider pilot's licence
- Chairman of the university gliding club
- Second place in student robotics competition
- Silver and bronze Duke of Edinburgh awards

Languages

- English (native)
- French (B2)
- German (A1)
- Italian (A1)
- Spanish (A1)

Professional Experience

2020 – Present	Machine Learning Researcher	<i>Osylum</i>
2017 – 2019	Assistant–Doctorant	<i>École Polytechnique Fédérale de Lausanne</i>
2016 – 2017	Postman	<i>Royal Mail</i>
2015 – 2015	Summer Research Intern	<i>Bath Institute for Mathematical Innovation</i>
2014 – 2014	Summer Intern	<i>Roke Manor Research</i>

Education

2012 – 2016 **Master of Mathematics (MMath)** *University of Bath*

Projects & Hobbies

Gliding

I started learning to fly with the University of Bath gliding club. I obtained my licence and in my final year I became the chairman of the club. As chairman I was responsible for organising trips to the gliding club for students, liaising with the host gliding club and attracting new members. I have competed in the 2016 UK inter-university gliding competition and the 2019 championnat romand Alpes. I now fly from Bex in Switzerland.

Restoring a Glider

I am a member of a [group](#) that is restoring a Neukom AN66B which is a very rare Swiss glider from 1966. I have worked on the sponsoring document including translating it into English as well as creating a promotional video for the project. I have also helped during restoration days. Our project has been featured in the magazine of the Vintage Glider Club and in Aerorevue, the magazine of the Swiss Aero Club.

Squash

I play squash regularly and I am the captain of a team competing across Romandy.

Cartograph

I wrote a [Python library](#) to draw map tiles and a [tutorial](#) to use this library and others to draw maps using OpenStreetMap data and elevation data. I have used my maps whilst hiking.

Student Robotics Competition

While I was at Peter Symonds College I took part in the student robotics competition at the University of Southampton. The competition is between teams of 16-18 year olds and involved building and programming a robot to race around a simple course and collect (full) baked bean cans. I was programming the robot and deciding the game strategy. In the end, we came second.