

# FREDDIE PARTON

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Portfolio: freddieparton.com | LinkedIn

Applied meteorologist, oceanographer and data scientist with experience delivering high-pressure forecasting, routing and performance analysis for elite sailing teams across the world. Strong background in atmospheric and ocean modelling, data analysis and Python development, with experience translating complex environmental data into clear operational decisions. Comfortable working in fast-paced team environments with early starts, detailed reporting and time-critical decision-making.

## EXPERIENCE

### DRIFT Energy — Data Scientist & Engineer

Sep 2024 – Present

- Developing a bespoke routing algorithm and operational models for a 60 m autonomous energy-harvesting sailing catamaran using Python, GOMBOC and environmental data.
- Contributing to operations planning, onboard systems, controls and communications design, whilst supporting business development at industry and sustainability events.

### MetWind — Private Meteorologist

Mar 2024 – Present

- Producing daily and long-range weather forecasts, race briefings and routing analysis for professional sailing teams in America's Cup, Olympic, IRC/ORC, TP52, RC44, Maxi fleets.
- Delivering concise technical reports and tactical decision support under tight deadlines and early-morning operational schedules. Providing clear operational communication and rapid updates in high pressure environments.

## EDUCATION

### University of Reading — MSc Applied Meteorology | Merit

2024

Dissertation: Modelling mean wind gradient over the ocean in the surface layer of the atmosphere using boundary layer theory and data from racing yachts.

### University of Southampton — MSci Oceanography | 2:1

2023

Thesis: Deep water properties and formation events in the Western Mediterranean basin using ARGO floats. Third year project included modelling teleconnections between El Niño and the North Atlantic Oscillation.

## TECHNICAL SKILLS

- **Programming:** Python, MATLAB, R, JavaScript, Unix, GitHub
- **Forecasting & Routing:** GOMBOC, Expedition, Adrena, atmospheric and ocean model interpretation
- **Data Analysis:** Environmental data, routing optimisation, performance analysis, scientific methods
- **Software:** VScode, Excel, PowerPoint, Word, comfortable across all operating systems.
- **AI & Productivity:** LLMs and AI-assisted development tools to accelerate coding, data analysis, debugging and workflow automation while maintaining data security and validation standards

## SAILING EXPERIENCE

International offshore and inshore racing sailor with key roles as navigator, strategist, tactician and trimmer on Maxi, IRC and multihull campaigns. Competed at events including the Admiral's Cup and Maxi Yacht Rolex Cup, contributing to multiple overall wins, championship podiums and RORC season victories.

## ADDITIONAL INFORMATION

- Bilingual English/French; A2 German
- English and French passport holder
- Full French driving licence
- FaRo processor course (2025)