HENRY GROVES

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Education

Further Study, University of Newcastle upon Tyne   **2023-2027**
- **M.Comp.** (Hons) Computer Science

A Levels, Pontefract New College, Pontefract   **2021-2023**
- **A Levels:** Mathematics (**A***), Further Mathematics (**A**), Physics (**A**), Computer Science (**A**)
- **EPQ:** "To what extent will quantum computing replace high performance computing in computational biology?" (**A**)

GCSEs, Carleton High School, Pontefract, West Yorkshire   **2016-2021**
- **GCSEs:** 5 **9**'s, 3 **8**'s
- **BTECs: D*2**, **D2**

Projects

"Study Room" - A real-time productivity application

Developed a full-stack, real-time application as part of A-Level Computer Science. The application is a customisable productivity workspace with a module system to tailor to individual user's needs. Built with a React.JS and TypeScript front-end, Next.JS / tRPC and TypeScript back-end, with MongoDB as the core database.

"CLAuDE" - Accessible and modular GCM (Global Climate Model)

Project manage a large-scale open-source climate model CLAuDE (Climate Analysis using Digital Estimations), written in Python. The project's focus is on simplicity and approachability for use as a learning tool. Manage contributions, versioning, packaging and community engagement, whilst also writing simulation code and CI/CD pipelines.

Work Experience

***Data Scientist*, Northern Powergrid (DSO)**   **May-September 2024**

***Data Analyst*, Northern Powergrid (System Forecasting)**   **May-August 2023**
- Combined numerous data sources with SQL and Python scripting to design and implement a statistical model for predicting the demand of almost 4 million customers on low-voltage electrical distribution networks.
- Created a dashboard in Excel from the output, and created visualizations for presentations to the wider team and executives.
- Extracted and processed data for, and worked with other colleagues on regulatory submissions under very tight deadlines whilst also working on the model.

Hillside Fisheries, Ackworth, Pontefract   **June 2021-September 2023**
- Work in the kitchen and on front of house serving and preparing fresh fish and chips. Role includes serving customers, taking payments and using kitchen equipment to prepare food.
- Developed culinary skills along with conversational and transactional skills. Working in a high pressure environment requires good time management and task prioritisation.

Research

Cluster-Based Short Term Load Forecasting for Low Voltage Networks Using Neural and Statistical Models   **CIRED, 2025**

H. Groves & I. Middleton

Key Skills

- Problem-Solving
- Attention to Detail
- Procedural Thinking
- Software Development
- Machine Learning and AI
- Data Exploration & Analysis

Programming Languages / Frameworks:
- Python 3
- Rust
- C/C++
- TypeScript
- React.JS
- Next.JS
- Node.JS
- OCaml
- Java

Additional Technologies:
- Git / GitHub
- GNU/Linux
- LaTeX
- MongoDB
- SQL (PostGreSQL)
- HTML/CSS
- tailwindcss
- Access / Excel