George Scannell

Location: **Brentwood, Essex**
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Profile

Physics graduate with 2+ years of experience in data-related roles, including processing, analysis, annotating, and reporting. Recipient of the William Lassell award for achieving the highest overall grade of my graduating cohort at university. Proven ability to grasp unfamiliar concepts quickly, adapt to new challenges, and deliver high-quality results in both independent and collaborative environments. Strong interest in applying my experience to help solve real-world problems as part of a data-focused team, while continuing to learn and grow in a role that supports my long-term goals.

Skills

- Python (Pandas, NumPy, Matplotlib, Seaborn)
- Microsoft Suite (Excel, Word, PowerPoint)
- HTML, CSS, JavaScript
- Mathematical and statistical analysis
- Version control (Git, GitHub)
- Quantitative and qualitative research

Experience

AI Trainer/Prompt Engineer – DataAnnotation **Jan 2024 – Present**

- Developed prompts from scratch to train LLMs across various expert-level domains, mostly in programming (data analysis/visualisation, numerical modelling, web development, general bug-fixing, etc.) and mathematical problem-solving.
- Annotated and edited model responses to ensure correctness and alignment with prompt instructions.
- Consistently selected to join a small, high-performing team focused on the training of new and experimental models.
- Communicated with team members and leaders to refine prompting strategies, ensure consistency in annotations, and maintain the quality of collected data for clients.

Data Technician - Cable Tracing Services Ltd. (Surveying) **Apr 2023 – Dec 2023**

- Processed and manipulated laser scan/survey data for integration into 3D CAD software.
- Created detailed AutoCAD drawings using collected data to better visualise client projects.
- Analysed survey data and organised key findings into comprehensive reports.

Service Assistant – Sainsbury's Plc. **Sep 2018 – May 2019**

- Operated tills and recorded balances at the end of each shift to ensure accuracy of cash handling.
- Managed deliveries and organised goods in the shop warehouse.
- Distributed warehouse stock to the shop floor to maintain availability of goods.

Education

Physics BSc (Hons) **Sep 2019 – Jun 2022**
University of Liverpool

- **Grade:** First (86%)
- **Notable Modules:** Mathematics I-IV, Statistical Physics, Computational Physics, Final Year Group and Personal Projects (programming-based).
- **Awards:** William Lassell Prize - Awarded for achieving the highest overall grade in Physics with Astronomy within my graduating cohort.

A Levels: Physics, Maths, Economics **Sep 2017 – Jun 2019**
Shenfield Sixth Form

Projects

Personal Website - georgescannell.com **Jan 2024 – Current**

Developed a personal website using HTML, CSS, and JavaScript to showcase a range of personal projects:

- **Spotify Stream Data Analyser:** Provides visual insights into a user's music streaming history. Highlights top artists, songs, and listening frequency by day, month, and year.
- **Spotify User Data Analyser:** Enables users to download their "Liked Songs" playlist as a CSV file and displays upcoming shows of followed artists in their country.
- **Barnes-Hut Simulation:** Gravitational N-body simulation that uses quadtree data structures for computational efficiency at high particle counts.

The website also has more personal features, including notable photographs, and highlights of my favourite musical artists and films.

Physics Degree Dissertation **Jan 2022 - May 2022**

Designed and implemented a numerical simulation to model the dynamic gravitational movement of the bars within a double-barred spiral galaxy.

- Independently developed a complex Python simulation, aided by in-depth research of numerical modelling techniques and the overall subject matter.
- Delivered a 15-minute presentation with Q&A to academic staff and students, detailing the project progress and outlining next steps.
- Submitted a 15,000-word paper to serve as the project report.
- Managed a one-semester timeline with careful planning and time management, balancing the demands of this intensive project, a group project, and other exam/coursework-based modules.
- Observed novel behaviours in double-bar systems, including exponential increases in bar oscillation amplitudes when the bars are initialised at similar sizes.

Key achievements

- Achieved the highest final year project mark in my academic year.
- Currently in the process of publishing the findings of the project as a paper in the Monthly Notices of the Royal Astronomical Society (MNRAS peer-reviewed journal).