

Andrew Parry

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EDUCATION

- **University of Glasgow** Glasgow, Scotland
PhD in Computer Science - Full scholarship; Research in Neural Search Robustness Oct 2022 - 2025
- **University of Glasgow** Glasgow, Scotland
Bsc (Hons) in Computer Science with specialization in Data Management; 1st Class Honours Sept 2018 - May 2022
Courses: Artificial Intelligence, Machine Learning, Deep Learning, Big Data, Text as Data, Information Retrieval, Functional Programming, Algorithmics

SKILLS SUMMARY

- **Languages:** Python (Strong), C++ (Proficient), R (Proficient), Java (Proficient), C, Q, SQL,
- **Tools:** Pytorch, Tensorflow, Spark (Java & Python), Kubernetes, Docker, GIT, Azure ML, DevOps and Data Pipelines, Postgre, Power BI, FastAPI

EXPERIENCE

- **University of Glasgow** Glasgow, Scotland
Research Assistant May 2022 - Sept 2022
 - **Produced Novel Architecture with Real Applications:** Using neighbourhood sampling to generalize to populations in multiple modalities when training with low information. Specifically utilising concepts from local robustness and generalization through ensemble networks trained with variational methods.
 - **Empirically Tested New Preprocessing Method:** Investigated multiple methods with empirical testing of parameters. Applied proper software development practises to create a scale-able reusable codebase.
 - **Verified Masters Thesis Results:** Verified baseline results and took steps to optimize previous codebase to better scale to both larger models and datasets using Tensorflow probability.
- **Waterstons Consulting** Durham, England
Data Analytics Intern May 2021 - August 2021
 - **Delivered Production Ready Image Classification Model:** Handled full development of a production ready model and interface with a client representing a large logistics company. Created a high performing image classification model and deployed it with a REST API to be integrated into a larger software suite. Feedback from my client was excellent.
 - **Delivered HR Dashboards for Senior Management:** Created dashboards delivering KPIs and graphs for HR tasks and goals integrated with a HR database to reduce workload updating senior management.
 - **Modernised Assessment Process for Software Bidding within the Company:** Created a digital form and associated dashboard to quickly assess the opinions of multiple stakeholders in a software bidding process to replace previous manual methods.
 - **Provided On-site Training During Client Merger:** Assisted with digital transition during the merger of two clients, provided I.T and database training across the full hierarchy of employees.
- **Digital Skills Scotland** Glasgow, Scotland
Teaching Assistant, Graphic Designer June 2015 - Sept 2021
 - **Designed Graphics for Online Learning:** Created banners for lessons catching the attention of Edinburgh University with whom I created a banner for a talk and workshop at their science festival.
 - **Provided Learning Materials for SQA National 5 Computing Course:** Provided a mock brand logo and web assets to be used in the National 5 Computing Web Design component of teaching.
 - **Assisted Teaching in Disadvantaged Areas of Glasgow:** Worked with children and young adults to help them develop an interest in both programming and wider technology such as hardware including Arduino and Raspberry Pi computers.

SELECTED ACADEMIC WORKS

- **LLM Based Re-Ranker (Natural Language Processing / Information Retrieval):** Investigating sample importance to find highly representative subsets of datasets in Neural Ranking utilising both stochastic and un-supervised methods to improve model performance in ranking tasks.
- **Context Attacks on Retrieval Systems (Natural Language Processing / Information Retrieval):** Investigating sample importance to find highly representative subsets of datasets in Neural Ranking utilising both stochastic and un-supervised methods to improve model performance in ranking tasks. Under Review.
- **Deep Learning with Aggregate Level Uncertainties (Machine Learning):** Using ensemble methods and variational inference to extrapolate from aggregate training examples, Applications in low information environments and privacy-preserving ML across multiple modes of data. Under Review.

ACADEMIC SERVICE

- **Marking:** Text as Data (MSci), Machine Learning (BSc Hons)
- **Peer Review:** Springer Nature Computer Science
- **Assistant Reviewer:** KDD'23, WWW'23, ICTIR'23, CIKM'23, SPIRE '23, NeurIPS'23
- **Undergraduate Mentoring:** YanLing Liu, Rajan Rana
- **Postgraduate Co-Supervision:** Rachael Charmaine Martin, Hallton Jiao