

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), R(Proficient), C++ (Proficient), Java(Proficient), C, Rust 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
 - **Empirically Tested New Preprocessing Method:** Investigated multiple methods with empirical testing of parameters.
 - **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.
- **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

- **Lexical Distillation in Retrieval (Natural Language Processing / Information Retrieval):** Grounding neural retrieval with an axiomatic lexical teacher for efficient training.
- **SEO attacks on relevance models (Natural Language Processing / Information Retrieval):** Using white-box knowledge to attack prompt based systems in neural IR. Under Review
- **Context Attacks on Retrieval Systems (Natural Language Processing / Information Retrieval):** Using LLMs and exploiting the transformer attention mechanism to mask harmful content in web search. Under Review.

ACADEMIC SERVICE

- **Marking:** Text as Data (MSci), Machine Learning (BSc Hons)
- **Peer Review:** Springer Nature Computer Science, NeurIPS'23, SPIRE '23
- **Assistant Reviewer:** KDD'23, WWW'23, ICTIR'23, CIKM'23
- **Undergraduate Mentoring:** YanLing Liu, Rajan Rana
- **Postgraduate Co-Supervision:** Rachael Charmaine Martin, Hallton Jiao
- **TREC:** Lead on Deep Learning 2023 Track