

EDUCATION

Cardiff University

PhD, Computer Science

MSc Artificial Intelligence, *Distinction*

BSc Computing & Mathematics, *First Class Honours*

2021 - Present

2020 - 2021

2015 - 2018

RELEVANT EXPERIENCE

Machine Learning Engineer (6 month PhD Placement)

Spring 2024

Amplifyfi

- Built an end-to-end pipeline for detecting and creating timelines of events using ML
- Worked on automated generative reports and cross-checking sources for factuality
- Deployed using Docker, AWS OpenSearch, Lambda and ECR

Machine Learning Research Intern

Spring 2023

Eunice AI

- Researched and built a SoTA Twitter bot detection model for the crypto industry
- Deployed using AWS EC2 and Sagemaker

Machine Learning Intern

Summer 2021

Factmata

- Integrated interpretability visualisations to existing models
- Integrated Human-in-the-Loop feedback to models using a Chrome extension
- Trained a new sentiment analysis model using HuggingFace

PUBLICATIONS

Dialz: A Python Toolkit for Steering Vectors

Zara Siddique, Liam D. Turner, Luis Espinosa-Anke. ACL System Demo, 2025.

Shifting Perspectives: Steering Vectors for Robust Bias Mitigation in LLMs

Zara Siddique, Irtaza Khalid, Liam D. Turner, Luis Espinosa-Anke. 2025.

Automatic Extraction of Metaphoric Analogies from Literary Texts: Task Formulation, Dataset Construction, and Evaluation

Joanne Boisson, Zara Siddique, Hsuvas Borkakoty, Dimosthenis Antypas, Luis Espinosa Anke, Jose Camacho-Collados. COLING 2025.

Who is better at math, Jenny or Jingzhen? Uncovering Stereotypes in Large Language Models

Zara Siddique, Liam D. Turner, Luis Espinosa-Anke. EMNLP, 2024.

How Are Metaphors Processed by Language Models? The Case of Analogies

Joanne Boisson, Asahi Ushio, Hsuvas Borkakoty, Kiamehr Rezaee, Dimosthenis Antypas, Zara Siddique, Nina White, Jose Camacho-Collados. CoNLL, 2024.

SKILLS

I have experience with the following programming languages, libraries and software:

Python PyTorch/TensorFlow AWS Docker HuggingFace Django Git
HTML5/CSS3 React/Redux NodeJS Express.js MongoDB Adobe Suite

OTHER

Lead Organizer: DjangoGirls PyCon 2023, Cardiff NLP Hackathon 2022.

Organizing Committee: Cardiff NLP Workshop 2024, 2023. PyCon UK 2023, 2022.

Co-founder: Glitter Sisters (BAME LGBT+ group), Lez Read (book club), Rhetorik (sustainable clothing).

Completed Blue Dot's AI Safety Fundamentals Course.

Recipient of the Master's Excellence Scholarship 2020-21.

President and 2018 BUCS Gold Medallist, Cardiff Uni Boxing Club.