

SHARAN MAIYA

sm2783@cam.ac.uk

sharanm.uk \diamond github.com/maiush \diamond linkedin.com/in/sharanmaiya

EDUCATION

University of Cambridge PhD AI for Environmental Risks <i>Supervised by Anna Korhonen, Ramit Debnath</i> <i>Large Language Models for Decision-Making Under Risk in Climate Science</i>	<i>Oct 2023 - 2027 (expected)</i>
MRes Environmental Data Science <i>Supervised by Ramit Debnath, Laura Cimoli, Anna Korhonen</i> <i>Thesis: Aligning Language Model Evaluators with Human Judgement</i>	
Imperial College London MSc Statistics <i>Supervised by Ioanna Papatsouma, D.K. Arvind</i> <i>Thesis: A Novel Method of Tuning and Comparing Causal Discovery Algorithms on Real Data</i>	<i>Oct 2020 - Sep 2021</i> Merit
The University of Edinburgh BSc Computer Science and Mathematics <i>Supervised by D.K. Arvind</i> <i>Thesis: Investigating the Respiratory Rate Response to PM_{2.5} Exposure in Asthmatic Adolescents</i>	<i>Sep 2016 - Jun 2020</i> First Class

WORK + RESEARCH EXPERIENCE

Supervised Program for Alignment Research <i>Student Researcher</i>	Oct 2023 - Jun 2024
<ul style="list-style-type: none">· Project 1: Towards a better understanding of sycophancy in large language models (LLM evals).· Project 2: Investigating task breakdown in LLM's through model component clustering (mechanistic interpretability).· Project 3: Contrast-pair clustering for CCS-style methods (concept-based interpretability).	
Cambridge AI Safety Hub <i>Intro Fellowship Facilitator</i>	Oct 2023 - Dec 2023
<ul style="list-style-type: none">· Teaching / guiding reading groups on literature in AI Safety.· Topics covered both philosophical arguments and technical research.	
The University of Edinburgh <i>Research Assistant</i>	Sep 2021 - Jun 2023
<ul style="list-style-type: none">· Statistical methods and machine learning for a range of problems in air pollution epidemiology.· Causal discovery algorithms and causal effect estimation.· Debaised (targeted) machine learning for semi/non-parametric models.· Advising undergraduates and masters students on a weekly basis.	
TradingHub <i>Software Engineer Intern</i>	Jun 2020 - Aug 2020
DataGrasp <i>Freelance Data Scientist</i>	Jan 2020 - Apr 2020
Royal Bank of Scotland <i>Summer Intern</i>	Jun 2019 - Aug 2019
The University of Edinburgh <i>Undergraduate Researcher</i>	Sep 2018 - Dec 2018

Walter Laurito, **Sharan Maiya**, Grégoire DHIMOÏLA, Owen Ho Wan Yeung, and Kaarel Hänni. “Cluster-Norm for Unsupervised Probing of Knowledge”. *ICML Workshop on Mechanistic Interpretability* 2024, <https://openreview.net/forum?id=kXRYju6Jtt>.

D K Arvind and **S Maiya**. “Sensor data-driven analysis for identification of causal relationships between exposure to air pollution and respiratory rate in asthmatics”. *arXiv* 2022, <http://arxiv.org/abs/2301.06300>.

D K Arvind, **S Maiya**, and P Sedeno. “Identifying causal relationships in time series data from a pair of wearable sensors”. *IEEE 17th International Conference on Wearable and Implantable Body Sensor Networks* 2021, <https://doi.org/10.1109/BSN51625.2021.9507030>.

A Miller, D Miron, and **S Maiya**. “GraphDraw - A Tool for the Representation of Graphs Using Inherent Symmetry”. In *Proceedings of The First International Conference on Symmetry*, 2018, <https://doi.org/10.3390/proceedings2010086>.