

Mohamed Nazaal Ibrahim

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EDUCATION

Aalto University <i>Doctoral Researcher in Machine Learning</i> <i>Working on probabilistic models for interactive AI under the ELLIS PhD programme.</i> <i>Main Supervisor: Professor Samuel Kaski</i> <i>Advisor: Dr Ti John</i> <i>Exchange Supervisor: Dr Stefano Albrecht</i>	Espoo, Finland October 2021-Present
KTH Royal Institute of Technology <i>Masters in Applied and Computational Mathematics</i> <i>Thesis: Causal Discovery Algorithms for Context-Specific Models, supervised by Dr Liam Solus</i>	Stockholm, Sweden August 2019-June 2021
University of Bristol <i>Bachelors in Mathematics and Computer Science</i> <i>First class honours, 3rd in cohort</i> <i>Thesis: On Latent Gaussian Process Regression & Bayesian Quadrature, supervised by Dr Carl Henrik Ek</i>	Bristol, United Kingdom September 2016-June 2019
Center for Higher Secondary Education <i>A-levels, Final year average 97%</i>	Male', Maldives May 2013-July 2015

EXPERIENCE

Teaching Assistant <i>Dept. of computer science, Aalto University</i> <ul style="list-style-type: none">CS-E4895 Gaussian Processes	Espoo, Finland February 2024 - April 2024
Research Assistant (Part-time) <i>Department of Physics, KTH Royal Institute of Technology</i> <ul style="list-style-type: none">Implementing deep learning models on CT imaging data related to Sweden's effort to provide better medical care for COVID-19 patients. Done in collaboration with the Karolinska Institute. Supervised by Mats Persson.	Stockholm, Sweden January 2021-June 2021
Research Intern <i>Huawei</i> <ul style="list-style-type: none">Worked on probabilistic machine learning methods for optimization problems arising in antennas	Gothenburg, Sweden June 2020 - August 2020
Research Intern <i>Visual Information Laboratory, University of Bristol</i> <ul style="list-style-type: none">Worked on Convolutional Neural Networks for semantic segmentation used for 6D pose estimation in drones	Bristol, United Kingdom June 2018 - August 2018

Teaching Assistant

Dept. of computer science, University of Bristol

Bristol, United Kingdom

September 2017 - June 2019

- September 2017 - June 2018: Mathematical methods for Computer Scientists (Year 1 unit)
- September 2018 - June 2019: Lead TA for Mathematical methods for computer scientists (Year 1 unit), Coding and number theory (Year 2 unit), Algorithms (Year 1 unit), Probability and statistics (Year 1)

Intern

Maldives Monetary Authority

Male', Maldives

August 2017 - September 2017

- Worked as a web development intern in the Maldivian central bank

PAPERS

Targeted Causal Elicitation

- [NeurIPS 2022 Workshop on Causality for Real-world Impact](#)

SCHOLARSHIPS, ACHIEVEMENTS & POSITIONS OF RESPONSIBILITY

KAUTE Foundation Grant (EUR 24 000)

KAUTE Foundation, Finland

- Working grant for doctoral students. [Acceptance rate ~ 10% \(39/387\)](#).

KTH Scholarship (~ USD 38 000)

KTH Royal Institute of Technology

- Merit based scholarship covering full tuition fees, given to incoming international masters degree students. [Acceptance rate ~ 1.5% \(30/2000+\)](#).

Maldivian President's Scholarship (~ USD 130 000)

Rep. of Maldives

- Most prestigious scholarship for Maldivian students given for achieving the highest grades in high school. Covers all expenses for undergraduate university education. [Acceptance rate ~ 1.4% \(28/2000+\)](#).

Barry Thomas Scholarship (~ USD 600)

University of Bristol

- Given to the highest achieving international students starting at the University of Bristol

President, Bristol University Research Society

University of Bristol

- President of the Bristol University Research Society over the academic year 2018-19, overseeing increased membership and activities including talks from researchers and AI panel discussions with leading AI/ML researchers.

FUNKA Mentor

KTH Royal Institute of Technology

- Working as a mentor for students with disabilities mainly related to study skills and organizing life at university

Highest National A-level Results in Mathematics, Accounting

Rep. of Maldives

- Received Presidential Medals for getting 100th percentile marks in both Accounting and Mathematics in the Pearson International A-levels.

3rd place in Huawei AI Hackaton

Huawei

- We were given images and labels and given 24 hours to get the best predictive performance. The first step was to identify the problem as semi-supervised image classification. Our (simple) solution involved using an autoencoder with convolutional layers, which were used to build the final classifier, and of course a fair amount of hyperparameter tuning.

Best product in Boeing Computer Science Society Hackaton

Boeing

- Space-themed 24 hour event where we built a system which detects crashes based on an accelerometer attached to a helmet. Once a crash is detected, the satellite modem on the helmet sends a signal which can be seen on a simple web interface.

3rd place in G-Research Sentiment Analysis challenge

G-Research

- Team competition where we had to classify whether certain sentences about financial industry signified positive, negative or neutral sentiment. Solution involved using Python's NLTK and spaCy.