

Mohamed Nazaal Ibrahim

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EDUCATION

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

EXPERIENCE

- Research Assistant (Part-time)** **Stockholm, Sweden**
Department of Physics, KTH Royal Institute of Technology *January 2021-June 2021*
 - To develop robust deep learning models on CT imaging data, as part of a collaboration with Karolinska Institute which relates to Sweden's effort to provide better medical care to COVID-19 patients.
- Research Intern** **Gothenburg, Sweden**
Huawei *June 2020 - August 2020*
 - Worked on probabilistic machine learning methods for optimization problems arising in antennas
- Research Intern** **Bristol, United Kingdom**
Visual Information Laboratory, University of Bristol *June 2018 - August 2018*
 - Worked on Convolutional Neural Networks for Semantic Segmentation used for 6D pose estimation in drones
- Teaching Assistant** **Bristol, United Kingdom**
Dept. of computer science, University of Bristol *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. 10% of applications were funded.

KTH Scholarship (~ USD 38 000)

KTH Royal Institute of Technology

- Merit based scholarship given to 30 students from over 2000 applicants for the academic year starting 2019

Maldivian President's Scholarship (~ USD 130 000)

Rep. of Maldives

- Given to the 28 students out of over 2000 for getting the highest grades in high school on a national level

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.