

Mohamed Nazaal Ibrahim

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EDUCATION

- Aalto University** **Espoo, Finland**
PhD in Machine Learning
Working on probabilistic models for interactive AI under the ELLIS PhD programme. *October 2021-Present*
Main Supervisor: Professor Samuel Kaski
Co-Supervisor: Dr Stefano Albrecht
- KTH Royal Institute of Technology** **Stockholm, Sweden**
Masters in Applied and Computational Mathematics
Thesis: Causal Discovery Algorithms for Context-Specific Models, supervised by Dr Liam Solus *August 2019-June 2021*
- University of Bristol** **Bristol, United Kingdom**
Bachelors in Mathematics and Computer Science
First class honours, 3rd in cohort
Thesis: On Latent Gaussian Process Regression & Bayesian Quadrature, supervised by Dr Carl Henrik Ek *September 2016-June 2019*
- 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

SCHOLARSHIPS, ACHIEVEMENTS & POSITIONS OF RESPONSIBILITY

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

- Semi-supervised image classification task with 24 hours to come up with a solution, competed with 24 teams of PhD and Masters students, held in Stockholm, 2019. Our method used an Autoencoder with convolutional layers and using the filters learnt to build the final classifier, alongside the usual tricks like dropout, batch-norm etc.

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