Anagh Malik

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EDUCATION

Imperial College London   London, UK
MRes Machine Learning   *Oct. 2021 – Sept. 2022*
  - Supervised by Prof. Andrew Davison and Dr. Ronald Clark, working on Self-Supervised Computer Vision

Imperial College London   London, UK
BSc Mathematics   *Oct. 2018 - July 2021*
  - 3rd Year: Grade: 88.11%, Dean's List, G-Research Prize for Academic Excellence, Ranked 5th
  - 2nd Year: Grade: 90.38%, Dean's List, Ranked 2nd
  - 1st Year: Grade: 80.71%, Top 15%

III LO im. Marynarki Wojennej RP w Gdyni   Gdynia, Poland
High School International Baccalaureate   *Sept. 2015 - June 2018*
  - 41/45 — Higher Level: Mathematics, Physics, English — Standard Level: Philosophy, Geography, Polish
  - Extracurricular Activities: Olympiad Mathematics Club, Volleyball Team, Debate Club, Band Drummer

EXPERIENCE

Dyson Robotics Lab, Imperial College London   June 2021 – Present
Researcher   *London, UK*
  - Working on real time interactive semantic segmentation
  - Research under Prof. Andrew Davison

Cognitive Robotics Group, Imperial College London   Aug. 2020 – Oct. 2020
Researcher   *London, UK*
  - Worked on Automatic Curriculum Design on the Animal-AI testbed
  - Inspired by research papers designed and implemented a student-teacher setup to train a DRL agent
  - Research under Dr. Matthew Crosby at Prof. Murray Shanahan's Cognitive Robotics group

Nate   Aug. 2019 – Dec. 2019
Machine Learning Researcher   *London, UK*
  - Worked on a page classifier using NLP techniques (Tensorflow, Keras)
  - Created an automatic reward generating function for a DRL agent
  - Designed and implemented a new model for checkout automation (in the process of being patented)
  - Gave a lecture to other engineers on the Wasserstein GAN and Information Theory

HandsOnTable   July 2017 – Aug. 2017, Mar. 2019
Summer Research Intern   *Gdynia, Poland*
  - Developed and investigated the algorithm behind the "Select All" function in Excel - like spreadsheets
  - Gave a lecture about the algorithm to 10 engineers on the implementation, design and efficiency
  - Created a web scraper for data collection using Python and Selenium

PROJECTS & ACTIVITIES

Research Project – 'Squared Music'
Created a song using a novel map from integers to notes and the x-squared function

TriMat 2017 – Mathematics Conference
Gave a lecture to over 100 people on the Konigsberg Bridge Problem and introduced the concept of Graph Theory

TriMat 2016 – Mathematics Conference
Gave a lecture to over 50 people on the Chinese Remainder Theorem and its use in Olympiad style Mathematics

Research Paper – 'Effect of Wind on Projectile Motion'
Wrote, solved multiple differential equations and used Lambert's W function to find closed-form expressions

Google DevFest - Presenter
Presented the Hackathon winning project during the Google developers festival

SKILLS

Languages: Hindi – native, Polish – native, English – native
Technical Skills: Latex – proficient, Python – proficient, Git – proficient, Unix – proficient, Matlab – basic

AWARDS

G-Research Prize for Academic Excellence   Oct. 2021
1st Place in ICHack   Jan. 2019
Built a lecture based interactive 3D AR visualiser. Worked on interaction with the 3D model (rotations and zoom) in Unity using C#
1st Place in AIHack   Nov. 2018
Built an accurate neural network predicting severity and number of casualties of an accident
1st place in G-Research NLP Coding Challenge   Nov. 2018
Scholarship for All Round Excellence, Pomeranian State of Poland   Oct. 2017
Scholarship for Academic Excellence, President of Gdynia, Poland   Oct. 2017