Anagh Malik

anaghmalik.com

Education

University of Toronto — Toronto, Canada
PhD in Computer Science — *Sep. 2022 – Sep. 2026*
- Supervised by Prof. David Lindell.

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

Imperial College London — London, UK
BSc Mathematics — *Oct. 2018 - July 2021*
- Graduated 3rd in class. G-Research Prize for Academic Excellence.

III LO im. Marynarki Wojennej RP w Gdyni — Gdynia, Poland
High School International Baccalaureate — *Sept. 2015 - June 2018*

Publications

- Weihan Luo, **Anagh Malik**, and David B. Lindell. "Transientangelo: Few-Viewpoint Surface Reconstruction Using Single-Photon Lidar." In submission, 2024.
- **Anagh Malik**, Noah Juravsky, Ryan Po, Gordon Wetzstien, Kiriakos N. Kutulakos, and David B. Lindell. "Flying with Photons: Rendering Novel Views of Propagating Light." European Conference on Computer Vision, 2024. **Oral Presentation, top 2%**
- **Anagh Malik**, Parsa Mirdehghan, Sotiris Nousias, Kiriakos N. Kutulakos, and David B. Lindell. "Transient Neural Radiance Fields for Lidar View Synthesis and 3D Reconstruction." Advances in Neural Information Processing Systems, 2023. **Spotlight, top 3%**
- **Anagh Malik**, Shuaifeng Zhi, Marwan Taher, Ronald Clark, Andrew Davison. "SegDIP: The Unreasonable Effectiveness of Randomly-Initialized CNNs for Interactive Segmentation." Technical Report, 2022.

Experience

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

HandsOnTable — July 2017 – Aug. 2017, Mar. 2019
Summer Research Intern — *Gdynia, Poland*

Projects & Activities

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

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

Robert E. Lansdale/Okino Computer Graphics Graduate Fellowship Jan. 2024

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