

Manav Ponnekanti

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EDUCATION

University College London

MBBS BSc Medicine

September 2022 – present

Haberdashers' Boys' School

*A*A*A in Biology, English Literature, and Chemistry*

September 2016 – July 2021

EXPERIENCE

UCL Research Intern

IoO Retina Bioinformatics Lab

January – September 2022

May – September

- Extraction and processing of keratometer values produced by the adaptive optics scanning laser ophthalmoscope (AO-SLO) under Dr Angelos Kalitzeos
- Used Python, RegEx, and HTML/CSS

Pontikos Lab

January – May

- Non-reference-based enhancement of degraded retinal fundus images using neural networks
- Used Python, Anaconda, PyTorch, Git

Work Experience

July 2019

UCL Institute of Ophthalmology

- Observing the Multimodal Retinal Imaging team and learning to use retinal imaging equipment
- Analysis and comparison of retinal pathologies in Optical Coherence Tomography scans

Shadowing

August 2018

Moorfields Eye Hospital

- Observing ocular plastic surgery and an AAV gene therapy trial for the treatment of Retinitis Pigmentosa in the surgical wards

EMPLOYMENT

Sciences and Maths Tutor

Purple Ruler

April — October 2022

- Teaching GCSE and A-Level Biology, Chemistry, Maths; UCAT and BMAT; and interview preparation

Generalist Tutor

Triangular Learning Centre

January 2019 — March 2020

- Teaching classes of 3-10 pupils KS1-GCSE English, Mathematics, and Science
- The job demanded a range of communicative registers, organisation and maintenance of learning materials, and leadership of students

PROJECTS AND AWARDS

Perry Keenlyside Prize

Graduating award for English Literature

July 2021

Aske Project (EPQ-equivalent)

Distinction

June 2020

- *Evaluating neurotransmitter-symptom relationships for the integration of precision medicine into the treatment of major depressive disorder*

Keith Dawson Extended Research Project

Distinction with Honours

May 2017

- *What role does epigenetics play in the development of cancers?*

TECHNICAL SKILLS AND INTERESTS

Languages: Proficiency in Python (Anaconda), PyTorch, HTML/CSS, and LaTeX. Have used JavaScript, Golang, and Ruby

Academic Interests: Computational neuroscience, philosophy of mind, phenomenology, existential psychiatry

Hobbies: Reading science fiction, running, playing jazz piano, open source software