Imperial College London

A UROP perspective by Raluca-Anamaria Constantinescu

Summer 2022 (undertaken in the Department of Bioengineering)

Raluca-Anamaria was a year 3 undergraduate at Imperial College London in 2021-2022: MEng Biomedical Engineering, Department of Bioengineering

UROP title: Improving the robustness of automatic quantification of fungal burden in histology images

I did a UROP project last summer (2021) and I was very enthusiastic about the research environment in our university. It was a very useful experience as I am thinking of doing a PhD in the future and this was a great trial for me. This year I have decided to repeat the experience but in a different field which involves both healthcare and programming. I got in contact with my supervisor earlier to discuss the available options and my interests. My project included the improvement of a neural network model that was designed to quantify fungal burden from histology images. I wanted to develop my skills in the field of Deep Learning as they are very useful in industry nowadays. Prior to the actual start of my project, I have prepared myself by doing literature review in the relevant field. This helped me in starting the actual work right from the beginning of the summer.

This project helped me develop some useful skills for the research field. I became more organised as I was guiding myself to achieving the goals on time. Working with another student was also very rewarding as I learnt how to communicate efficiently and express and listen different points of view. I made many new contacts inside the lab group from whom I received feedback for my ideas and proposals.

It was a great experience that helped me discover more from the bioengineering area. This project helped me in choosing my dissertation topic and will guide my future career choice.