

I have been interested in life sciences since my early childhood. I found it amazing to attempt understanding how complexity emerges from the combination of tiny and simple particles to form such astonishingly complex systems as, for example, the human body and mind. Throughout my studies, the name of Albert Szent-Györgyi turned up several times. He is the only Nobel laureate who won the Nobel Prize for research conducted in Hungary and his scientific achievements and life inspired me so much that he became my role model.

To pursue this interest of mine in sciences I enrolled in the most academically challenging class available in my city. Namely, a six-year course with specification in mathematics at the Radnoti Miklos Experimental Grammar School. This provided a strong foundation for other natural sciences to build upon. In 11th grade, I chose to study Biology and Physics on a higher level and this year I obtained the Hungarian Matura on the Higher Level with excellent grades in Mathematics, Physics and Biology.

To further challenge myself I competed in various subjects in the past four years. Among others, I qualified to the finals of the National Competitions in Mathematics, Physics and Chemistry in 9th and 10th grade and the National Competition in Mathematics in 11th grade. Furthermore, in 2018 I was a member of the Hungarian team for the International Linguistics Olympiad. Still, I am the most proud of my achievements in the field of Biology. In my final year, I achieved not only the 12th place out of 4000 students in the National Biology Competition but also a place in the Hungarian team for the International Biology Olympiad. The IBO was one of the greatest experiences in my life as I had the chance to meet people with similar interests but very different cultural background. The Olympiad and the preparatory work gave me a deeper understanding of modern biology and the whole experience was crowned for me by being awarded a Gold Medal at the end of the competition.

Besides my academic interests, I have always devoted myself to resolve social issues and I took part in various social activities. After two years of being a member of the student council of my high school, I became elected the president of this council. As president, my most important aim was to provide my fellow students with a perspective on higher education as I found that it is much easier to choose the best university course for someone if one is aware of their options. Thus I invited our alumni on a regular basis to talk about their courses and experiences at the university. I also took part in organising cultural events and it was my responsibility to advocate for other students in case of any concern.

Currently, I am involved in a research project conducted by the team led by Peter Horvath at the Biological Research Centre in Szeged. The team's main focus is implementing Machine Learning techniques, especially Deep Learning in high-throughput microscopy and single-cell microscopy to accelerate and improve the efficiency of image-processing. The main goal of this research is to discover new possibilities in cancer treatment and personalised medicine in general. I was amazed by the novelty of this kind informatics-based approach to biomedical problems and I am excited to have the opportunity to be involved in an interdisciplinary project like this as I firmly believe that this is the visible future of biomedical sciences.

My motivation to become a medical professional comes from the sensation that being a doctor is one of the most complex tasks one can choose to pursue as it requires not only studying or being good at conducting research but also to be empathetic, a good communicator, and prepared to handle immensely stressful situations quickly. Hence, I regard becoming a medical professional a mission rather than a mere job.

I hope that my above-mentioned qualities and achievements make me eligible for a place at an excellent university.