

I have had an interest in all things mathematical and logical for as long as I can remember. I have always been very curious, and when I was little, I learned mathematics from my parents and my teachers in elementary school. At the age of 10, I got accepted into Békásmegyeri Veres Péter Gimnázium, one of the top high schools in Hungary.

However, I only realized my true potential a few years later, when I joined Lajos Pósa's weekend math camps, and the Joy of Thinking Foundation's summer camps. In these camps, I found a community of people genuinely passionate about mathematics and problem solving. This motivated me in my pursuit of maths, and I started seeing real success in competitions. Ever since then, I am one of the top competitors in Hungary, achieving first place in the Bátaszéki Mathematics Competition (2019), the Hanoi Open Team Selection Test (2019), the Arany Dániel Mathematics Competition (2020 and 2021), the KöMaL B Competition (2022) and the Bolyai Mathematics Team Competition (2022). Some of my other results include 2nd place in the Kalmár László Mathematics Competition (2019), 5th place in the Mathematics OKTV (2022), 6th place in the Zrínyi Ilona Mathematics Competition (2019, 2020, and 2022). I have also taken part in international competitions: I won a bronze medal at the Hanoi Open Mathematics Competition (2019), and a gold medal at MEMO (2022), where I finished in absolute 3rd place.

I also enjoy exploring mathematics on my own, and inventing Olympiad-style problems. I think of this as the more creative side of this science; in certain aspects, it is more comparable to certain art forms than to competition mathematics. As of writing, I have proposed three problems to KöMaL, the most prestigious high-school mathematical journal in Hungary. I also won first prize in the Polygon Research Competition in 2021 for my summary of, and research in Olympiad-level geometric problem solving methods.

I have attended numerous international mathematical camps, where I met people from all around the world. This year, I attended WARP (Winter Applied Rationality Program) in Oxford, which allowed me to get a taste of English culture and the English environment, and to learn more about the world and myself. It really opened my eyes to the potential benefits of studying abroad, and I found its international nature quite uplifting. During my time there, I also befriended multiple Hungarians studying in England; their experience inspired me to apply to English universities. I took part in MBL (Maths Beyond Limits) twice, where I was introduced to new concepts in higher level mathematics, some of which have fascinated me ever since. One of my favourite topics is type theory and computerized proof verification, to which I was first introduced during MBL 2021 by Jakub Wornbard. The formalisation of mathematics is something I always enjoyed studying: I think bridging the divide between our intuitive understanding of maths, and the strict logical systems that underlie it is essential not only for forming a strong foundation of mathematics, but for developing new intuitions about it.

I am also an active competitor in the Hungarian IMO/MEMO selection process, regularly taking part in selection tests, and the Olympiad-level classes of Sándor Dobos. So far, I have attended the Hungarian IMO-preparation summer camps twice, gaining valuable problem solving experience each time.

Outside of mathematics, I enjoy playing table tennis and chess, the latter of which I used to play semi-competitively. In fact, I like playing almost any ball game, be it football, tennis, badminton, et cetera. I also play the ukulele recreationally.

I would like to study at a UK university because of the fast-paced, reputable learning environment, as well as the opportunity to meet new people. I think that studying in the UK is the best way for me to fulfil my academic potential.