

For me mathematics is the perfect projection of our world. Despite being exact, and having clear rules, it is endless, and there will always be fascinating questions to discover. In my opinion the importance and power of mathematics is undoubtedly shown by the fact that even though mathematicians love to do math just for itself, with no practical reason, some decades later their completely theoretical theorems often turn out to be essential in the real world too.

My favourite field in mathematics is surely combinatorics, I find it beautiful that the problems can have completely different solutions. An important aspect for me is that you can always think about combinatorics, especially graph theory problems, even when you are on the way somewhere, and you don't have a pen and paper with you. I enjoy thinking about problems while walking and imagining everything in my head.

I fell in love with maths in third grade, when I qualified for the national round of a math competition. Back then I attended competitions from various other subjects too, but in fifth grade I realized that I find mathematics the most interesting of them, so I started to spend more time doing it.

In the last few years I have participated in some international competitions, I won a bronze medal at MEMO 2020, and I participated at IMO 2021, and won a bronze medal, that is my achievement I am the most proud of. I'm also a regular solver of the Mathematical Journal for High Schoolers (KöMaL), in the last 2 years I finished 5th in the B level competition, and this year I also competed in the A level competition, where I finished 4th. This year I finished 9th in the Hungarian National Olympiad (OKTV), and I won the Hungarian National Mathematical Competition for 9-10 graders, which has been postponed to this year due to the covid situation.

Since 7th grade I go to the Fazekas Mihály Secondary School's math specialised class, where we have 7-8 math classes a week. Here I got to know many other students who share similar interests with me, and this is a highly motivating environment for me, because I can do my best if I am surrounded with people who work hard for their goals. Beyond that I also attend numerous extra classes and camps, for example I have been to this year's MBL camp in Poland, which was my first ever opportunity to meet an international community, and I have learned about interesting and deeper fields of mathematics. I am also a regular attender of the camps of Lajos Pósa. Those are held twice a year, and the best students are invited from all over the country. In these camps math is viewed from a slightly different perspective, every time we solve a problem we are encouraged to ask a follow-up question to this problem, and this way

we have built up our knowledge from the basics, and connected at first sight completely different fields.

Besides all the exciting topics, the best thing in these camps is that I met a lot of other math-loving people from all around Europe and I had the opportunity to think and learn together with my friends. I always prefer doing things in a team. In math, there is also a practical reason for that, because if you are stuck somewhere when trying to solve a difficult problem, the others might have the breakthrough idea.

The importance of social relations for me can be seen in my hobbies too. My favourite sport is football, I play football twice a week with friends. We often go hiking with my friends, and I like to play boardgames with them. If I am at home, aside from spending time with my family, I enjoy reading books and watching movies, my favourite topic is history, the 20th century more precisely. I have been playing the violin for 10 years, it was a good form of relaxation for my mind.

I would love to study in the UK because I want to study math at the highest level possible, and the universities there provide this and also a competitive environment I got used to in my school.