

Dear Sir or Madam,

With this letter, I am applying for a position in the Masters of Mathematics offered at University of Bergen. I am currently a Bachelor of Mechanics and Mathematics with specialization in Algebra of Taras Shevchenko National University of Kyiv. My area of interest includes graph theory and Linear algebra with their computer variations.

Since my early years I was obsessed with mathematics and my further participation in mathematics and physics olympiads, where I usually was in the list of the strongest participants, only strengthened that feeling. Even now, while studying in university, i can't ignore them and got the bronze medal(almost silver, in fact) on International Math competition-2021. This, and the need for mathematics in many scientific areas including but not limited by physics, biology, computer sciences were the reasons why I have chosen my department. While studying at university I actively participated in organising and running mathematics olympiads. As a student, I was able to be on the jury of Kyiv mathematical tournaments and evaluate pupils' performance during the Kyiv city olympiad. Moreover, I run a special course in my native school for pupils of the 6th and then 7th form where basic olympiad methods were taught.

Not only math was the subject of my deep study but also computer sciences. Though that is not my main specialization, I am really into programming and that is the reason why I have chosen Algebra as the main vector in my studies. I still sometimes participate in Codeforces contests and spend a lot of time doing my own projects including but not limited by my library for machine learning(nn and cnn), Huffman encoding. Moreover, during the winter I took part in a software engineering internship where I have got a lot of practical experience. I modified the sql parser, implemented hashing of our files and added/fixed functionality in our application with help of python and c++, programming languages I am best at.

With all my academic background and desire to study, I believe that I am able to perform well on this masters program.

Thank you for considering this application.

Yours faithfully,

Illia Bovtriuk.