

MOTIVATION LETTER

I am writing to apply for master program of science department of mathematics scholarship. I graduated from faculty of science.

I have always been keen on mathematics. Mathematical proof was the first point attracted me. "Why?", "Why we do this?"; These were the questions I always asked since I was a little child which were not often answered. But in mathematics there were always definite answers to my why-questions which satisfied my curiosity. My tendency to challenge led me to solve new complicated problems. Since there was no bookshop in our town to buy mathematical books, I used to prove the theorems in my textbook which were not proved. My passion for mathematics stimulated me to choose mathematics to study in university.

Being acquainted with different branches of mathematics, I have gained a deeper insight into mathematics. Algebra, Number Theory, Linear Algebra and Geometry are my favorite. I am fascinated by the way we transcend human capabilities and state Natural Numbers Set as countable, although human cannot count it. One of the properties of mathematics is connections between its different branches and relation between mathematics and real world which sparks my interest. For instance, pure topics such as Rings and Fields drive into proving an evidential statement like "We cannot construct a heptagon with using compass and straightedge."

During my undergraduate study, I was an active student. I was professor aide in problem solving section in linear algebra and number theory. My responsibilities were to solve various problems about the topic for students, to supervise students learning and to evaluate their work. Furthermore, I was a mathematics tutor. I gave private lessons in Basic Mathematics, Engineering Mathematics, Differential Calculus and Statistics to undergraduate students of other fields like management, accountancy, engineering and statistics. These experiences improved my leadership, responsibility, creativity and team work skills.

After completing my master course, I will pursue my studies in the field of algebra or number theory. My ultimate aim concerns returning to Egypt to work in a mathematical research institute or university as a researcher or a professor so that I would be able to utilize the experiences I obtained overseas in an international environment particularly to succor keen students .

The ideal entities of human play the role of chain points. Human development and determining further ideal entities result in chain points growth in quantity and as a result a more precise approximation. Disparate cultures resemble different approximation methods which despite having the same chain points may give an approximation of ideal society with diverse methods. That is why I think acquaintance with diverse cultures enables me to use more dissimilar and

efficient ways to attain a better society. Hence, Mathematics program provides a great opportunity for me to become familiar with other cultures, to acquire an improved world view and to pursue learning other languages efficiently in addition to study at advanced universities.

I really wish to get the scholarship through which I will have a chance to study in an excellent University and pave a road to my future career and accomplishment of my life goals. It will give me freedom to study without thinking about the future financial burden and relieving my parents from the stress of not being able to support my education.

This scholarship opportunity I perceive as an extraordinary chance to interact with students and scholars from diverse professional and cultural backgrounds coming from all the World. This type of networking is very important for integration of different ideas and perspectives pertaining to diverse global issues.

At the end I would like to out that I am determined to make the most out of the scholarship program. I believe that being a student in prestigious University would not only empower my career development, but would give me the tools to utilize my full potentials.

Thank you for your consideration.

Sincerely,

RANIA ATIA MOHAMMED