

Faizan Khalid Mohsin

647-10 Capreol Crt., Toronto, ON, M5V 4B3 • faizan.mohsin@mail.utoronto.ca • (647) 648-2979

September 12, 2016

Dear Professor Victoria Landsman,

I would like to apply for your practicum Use of Joint Point Regression for Temporal Analysis of Trends, since I am very interested in joint point regression; in fact, I had read the paper *Joinpoint regression analysis of lung cancer mortality, Andalusia 1975–2000* and found the analysis of the change in trend of incidences of lung cancer to be very interesting.

I would be a great candidate for this practicum as I have a lot of experience doing statistical consulting through my company Cube Statistica. As a statistical consultant I have worked with real world data, performing the entire data analysis process from data cleaning to delivering the final report. This experience has given me the ability to learn new statistical techniques quickly and at a deep level in a short period of time. I have also learned how to perform in high pressure situations.

Throughout my past years of study, I have demonstrated an outstanding level of academic achievement and shown particular strength in statistical research, demonstrating extensive analytical, computational and quantitative skills. I have been consistently engaged in conducting long-term and short-term research projects, where I have been able to apply my critical thinking and learn quickly and independently new concepts, techniques and skills. I am a hard worker with the desire to continue learning and improving. Through my many research presentations, I have also achieved excellent visualization and oral communication skills which can be seen as I won the best undergraduate research presentation award at the Statistical Society of Canada's annual student conference. As the lead researcher of several research projects, as well as through my many leadership experiences, I have developed the ability to work both independently and in a team.

I am a highly creative individual, always thinking out of the box to find the best and the most appropriate solution to problems. Through statistical consulting, research, industry workshops and forecasting competitions, I have had the opportunity to apply advanced statistical techniques I have learned and think out of the box to solve real world problems. For example, in the case study competition on "What predicts sustainability of Canadian charities?" which we won, we used a novel clustering method to segment our data. We first used principle component analysis to reduce the extremely high dimensionality of our data and then used the principal components as the input to our k-means clustering to segment the successful Canadian charities into different groups, obtaining a very insightful segmentation of the charities.

These projects have helped improve my critical and creative thinking and given me a lot of experience in research. I am a proactive, innovative and highly motivated student. I would like to thank you for considering my application and I look forward to hearing from you.

Sincerely,

Faizan Khalid Mohsin