

### **STATEMENT OF RESEARCH INTEREST:**

I am writing to express my interest in the doctoral program available in Analytical Chemistry, Environmental chemistry or any related field of science with focus on profiling the fatty acid constituents of green coffee beans from Amhara region and to compare with other regional coffee using GC-MS or related to that works by using chromatographic techniques.

While pursuing my Bachelor degree in natural and computational science departments of chemistry at University of Gondar where I performed research in Organic Chemistry research project working in Title **“Extraction and isolation of the crude extracts of cucumis L and study its antibacterial activity “with work “Excellency”**. This opportunity incited me to start reading scientific papers and improving my scientific interest. After I have realized that, my problem-solving and dynamic personality led me to area of analytical chemistry area where I carried out research projects under the supervision of Dr. Minaleshewa Atlabachew (Asso.prof.) in titled **“Profiling the Fatty Acid Constituents in Green Coffee Beans from Some Selected Areas of Amhara Region by using GC-MS”** at Bahir-Dar University. Hence, I quickly became involved with related to Chromatography science mainly because it offers a rapid improvement between academic research for a new method and application of such a method in real cases. Therefore, I developed a strong interest in exploring the theory of gas and liquid chromatography (GC, LC) with mass spectrometry (MS), mass spectra elucidation, method development, metabolism of xenobiotics and chemo metrics. Having above mentioned in mind, I have decided to apply for this PhD position, as it will bring me one-step closer to my goal of becoming a researcher and an academic professor. In addition to the above, now I am writing a proposal on Titled **“Determining the Geographic Origin of Potatoes Using Mineral and Trace Element Content of East Hareghe, Oromia Region, Ethiopia”** this research proposal helps me to understand how to analysis trace metal by using ICP- OES, Multivariate analysis (MVA) techniques. As an analyst-researcher, I was able to improve my multi-tasking ability.

There for, the next my intention on working the Research will done by using GC-MS, ICP- OES and CIP-MS and related instruments not only this but also, I am interesting to do on Nano science and technology.