

Dear Professors

I'm writing to express my interest at Department of Economics as a Researcher with mathematical skills. With my scientific research experience and expertise in mathematical statistics, econometrics, time series analysis, my problem-solving and scientific skills, I believe I would make a valuable contribution in this position.

My scientific interest is the application of mathematical methods to economics, climatology, sociology, geography, ecology, psychology and biometrics. This requires a solid mathematical background and has practical usage in real life.

The results of research can be used to develop methods for the analysis and modeling of time series describing the economic, physical, biological and other processes.

Also I've got solid background in macroeconomics and theory of optimal taxation with using mathematical application.

As to my *scientific career* up to this point: in 2004, after having graduated from the College of Applied Mathematics (substructure of the National Technical University of Ukraine "Kiev Polytechnic Institute" – NTUU "KPI"), I became a student of the Institute of Applied System Analysis at the NTUU "KPI". During my study at the university, I was already determined to specialize myself in the development of mathematical models for real economic processes. I obtained the Bachelor's degree in Applied Mathematics in 2006. Further, during my Specialist's and Master's study in 2006-2009, I trained myself scientifically as well as I could, with advanced mathematical and statistical tools used in financial and economic analysis, e.g. stochastic calculus, time series analysis and capital market research. The topic of my Master Diploma was "Analysis of Financial Portfolio in Current Market Conditions".

To acquire practical knowledge in financial as well as economic analysis, I started working at the Joint Stock Company, the State Export-Import Bank of Ukraine (JSC Ukreximbank). During my work at the Bank, I gained a better understanding of financial and economic sectors and good practical work experience.

Recently, I have been involved in research programs aimed at construction of diffusion models for financial induces. It provided a good foundation in the development of my future career in research.

I already have experience and knowledge gained from working in earlier teams in long-term Research & Development projects in field of mathematics and economics. In my past I have faced challenges that I learned to resolve.

Furthermore, I obtained rigorous training in statistics, econometrics and computer science.

Over the longer term, I am hoping to get an opportunity to work with time series analysis and construction of mathematical models for *natural processes*.

I believe that the combination of continuing desire for self-improvement, life-long learning, combined with my insistence on approaching problems with both reason and pragmatism, and thus to lay new paths with new ideas, is my distinguishing quality.

Thank you in advance for considering my application. Please do not hesitate to contact me if you have questions or you need further information.

Yours sincerely,

Ms Valeria Bondarenko

✓ **Enclosed:** resume