

**Xiaochuan Yang, Ph.D.**

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**October 26, 2023**

**Sogeti  
Luxembourg**

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**Ref: Senior Statistician - SOGETI Luxembourg**

Dear Hiring Manager,

I am writing to apply for the role of Senior Statistician, and my expertise in probability theory, stochastic processes, and statistical models make me a strong fit for this position.

I hold a Ph.D. in Mathematics from Université Paris-Est, where my research was statistical analysis of some stochastic processes. My work has resulted in 21 peer-reviewed papers in statistical methodologies and theories that are applicable to a broad array of data-intensive projects. This academic background is strengthened by a 10-year-long journey in quantitative research, teaching, and consulting, with a current role as a Researcher and Lecturer in Data Science at Brunel University, London.

In my most recent role, I have taught advanced courses in statistics, time series analysis, and Bayesian methods, which are directly relevant to the tasks of a Senior Statistician. I am also currently supervising a Ph.D. student who is researching statistical analysis of Hawkes processes.

I have extensive experience with various statistical models, such as GARCH, EWMA, and Point Processes. While my primary focus has been on statistical theory and application, I am familiar with key regulations such as GDPR, which are relevant to data management and analytics. I am committed to continuous learning and skill development in this pivotal aspect. My technical prowess extends to programming skills with mastery in Python and proficiency in R, SAS, and SQL. I have used these tools for modeling data and conducting analyses in my previous roles as an EPSRC Postdoctoral Researcher at the University of Bath and an FNR Luxembourg-Singapore bilateral researcher.

Professionally, I have consulted for the NHS Rheumatology in Bath, where I developed statistical models for damage detection in Psoriatic Arthritis. In addition, I developed a project on toxin diagnosis by cellular morphology for the Defence Data Research Centre and Alan Turing Institute in Exeter. These experiences have fortified my ability to handle real-world applications of mathematical models, thereby aligning with the bank's focus on practical risk management.

Being bilingual in English and Chinese and having a level C1 proficiency in French, I meet the language requirements for the role. As someone deeply passionate about sharing knowledge and fostering teamwork, I believe I align well with the transversal skills sought in your job description.

I am eager to contribute my extensive experience in statistical modeling and data analysis to your organization's diverse projects. I am particularly attracted to this role because it not only allows me to apply my academic learnings to real-world problems but also brings me closer to my personal goal of relocating to Luxembourg, where my wife resides.

Enclosed are my curriculum vitae and copies of my diplomas for your review. I look forward to the possibility of discussing my application with you further.

Thank you for considering my application. I am available for an interview at your earliest convenience.

Yours sincerely,

Dr. Xiaochuan Yang