Biwen Ling

Naamsestraat 69 | Tel: +32 472744418
Leuven, Belgium, 3000 | Email: biwenling1997@gmail.com

Education

KU Leuven | Oct. 2021 – Sep. 2025
Ph.D. Candidate in Actuarial Science and Quantitative Finance | Leuven, Belgium

University of Amsterdam | Oct. 2021 – Sep. 2025
Joint Ph.D. Candidate in Quantitative Economics | Amsterdam, Netherlands

University of Illinois at Urbana-Champaign | Aug. 2018 – Dec. 2019
Master of Science in Actuarial Science | Champaign, US

Nankai University | Sep. 2015 – Jun. 2019
Bachelor of Science in Mathematics | Tianjin, China

Research in Progress

Understanding the Correlation Risk Premium | Submitted
together with Jan Dhaene, Daniël Linders, and Qian Wang.

Dispersion Swap in a Continuous-time Financial Market | Ongoing Research
together with Daniël Linders and Bertrand Tavin

Decomposition of unit-linked insurance claims | Ongoing Research
together with Jan Dhaene and Daniël Linders

Industry Experience

PwC Mainland China and Hong Kong | Jan. 2021 – Apr. 2021
Associate, Risk Assurance | Beijing, China

- Conducted the market investigation through face-to-face interviews with 26 nationwide Mercedes-Benz dealers and 2 competing companies to get aware of the current pain points of retail market management in the industry, assisted project members to jointly compiled a 131-page report "BMBS Retail Market Management - Summary of Market Research, Opinions and Suggestions".
- Participated in Jaguar Land Rover retail marketing consulting and audit projects, reviewed the daily market operation quality of nationwide Jaguar Land Rover dealers, in Excel and Python, analyzed their expenses in the 3rd and 4th quarter of 2020 and provided analysis report of the final audit results for JLR China .
- Engaged in BMBS dealer digital touchpoint transformation project, cooperated with colleagues to collect the current data and summarize the key points of BMBS dealer digital touchpoint, proposed standardization management implementation plan, and wrote the report "BMBS Dealer Digital Touchpoint Transformation Project - Communication".

China Merchants Bank Co., Ltd. | Jun. 2018 – Aug. 2018
Summer Intern, Credit Department | Xi'an, China

- Utilized VBA to classify the bank accounts based on the credit rating condition.
- Predicted the credit rating by employing general linear model to the real data from year 2015 to 2018.
- Assessed different factors' influence on credit rating prediction.

The Prudential Assurance Company Limited | Jun. 2017 – Jul. 2017
Summer Intern, Life Insurance Department | Hong Kong SAR

- Led a team in the simulated fund investment competition and gained the top rank among ten groups.
- Made Monte Carlo simulation in Python by using data from Hong Kong Life Table to evaluate premium, underwriting expenses, reported losses and underwriting profits of a certain type of term insurance.

Conference and Seminar Presentations

Actuarial and Financial Mathematics Conference — Feb. 2023
Poster Presentation: A note on dependence and volatility in P and Q. — Brussels, Belgium

Perspectives on Actuarial Risks in Talks of Young Researchers — Jan. 2023
Presentation: A note on dependence and volatility in P and Q. — Valencia, Spain

The 25th International Congress on Insurance: Mathematics and Economics — Jul. 2022
Presentation: A note on dependence and volatility in P and Q. — Online

Academic Experience

Master's Thesis Supervisor — KU Leuven
5 projects — 2021 – Present

Teaching Assistant — KU Leuven
Course: D0R57B Foundations of Quantitative Risk Measurement — 2021 – Present

Graduate Supervisor — Illinois Risk Lab
Project: European basket option pricing: independence and comonotonicity approximations. — 2019

Teaching Assistant — UIUC
Courses: ASRM 510 Financial Mathematics, ASRM 471 Life Contingencies — 2019

Specialized Skills

Languages: English, Chinese.
Programming: Python, MatLab, R, C++ (basic).
Other Skills: LaTex, MS Office, SQL.