

DEYU XU

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Github

EDUCATION

University of Connecticut (Uconn) M.S. in Statistics GPA: 3.533/4.0 Relevant Coursework: Mathematical Statistics I & II, Linear Model I, Applied Statistics I & II, Advanced Probability I, Experimental Design	09/2024-Present
Shandong University (SDU) B.E. in Statistics GPA: 3.18/4.0 Rank:32/158 (Top 20%) Relevant Coursework: Advanced Algebra, Mathematical Statistics, Time Series Analysis, Statistical Computing, Nonparametric Statistics, Multivariate Statistical Analysis, Applied Regression Analysis	09/2018-06/2023

RESEARCH INTERESTS

Bayesian inference, time series analysis, machine learning, and applied probability with applications in actuarial science, risk modeling, and data-driven decision-making.

RESEARCH EXPERIENCE

The Impact of Low Interest Rates on Pension Contributions and Actuarial Present Value 07/2022 – 05/2023

Student Researcher Jinan, China

- Conducted comprehensive literature review and empirical analysis examining pension fund sensitivity to interest rate fluctuations.
- Developed quantitative models to assess long-term financial impacts on pension systems.
- Delivered policy recommendations adopted by local government for pension plan adjustments in Jinan City.

Analysis of Actuarial Present Value of Annuities with Variable Interest Rates 12/2021 – 05/2022

Student Researcher Yantai, China

- Derived closed-form expressions for first- and second-order moments under stochastic interest rate conditions.
- Implemented Monte Carlo simulations in MATLAB to compute actuarial present values across diverse interest rate scenarios.
- Validated computational results against classical actuarial models, achieving 90%+ accuracy.

Science Summer Camp, School of Mathematics, Shandong University 06/2020 – 08/2020
Participant Jinan, China

- Reproduced proofs of foundational theorems in probability and mathematical statistics.

PRACTICE

New China Life Insurance Company, Ltd. <i>Banking Intern</i>	02/2023 – 05/2023 Yantai, China
<ul style="list-style-type: none">Processed and analyzed large-scale customer investment portfolios using MATLAB and SAS, improving data accuracy by about 9%.Designed data-driven recommendations for life insurance products tailored to client profiles.Contributed to team presentations on customer segmentation strategies for senior management.	

Agricultural Bank of China <i>Bank Lobby Manager Assistant</i>	07/2022 – 12/2022 Yantai, China
<ul style="list-style-type: none">Assisted 50+ daily clients in navigating banking services and coordinating with specialized financial advisors.Supported customer service operations including financial product consultation, account management, and regulatory compliance reporting.Maintained 95%+ customer satisfaction rating through effective communication and problem resolution.	

ACTIVITIES

The International Chinese Statistical Association(ICS), Volunteer 06/18/2025, 2025	06/15/2025 –
<ul style="list-style-type: none">Provided technical support for presenters and facilitated smooth execution of conference sessions.	
Shandong Museum, Volunteer	03/2021 – 05/2021
<ul style="list-style-type: none">Guided visitors and introduced major collections to the public.	
Mathematical Modeling Society, Member	09/2019 – 06/2020
<ul style="list-style-type: none">Mentored junior students on mathematical modeling tools and R programming.	

SKILLS/HOBBIES

Programming Languages	Python, R, SAS, MATLAB, SQL, HTML
Machine Learning Tools	Sklearn
Tools & Platforms	Git/GitHub, LaTeX, VsCode, RStudio
Language	English (Fluent), Mandarin Chinese (Native)
Hobbies	basketball and fitness