

DEYU XU

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[Github](#)

EDUCATION

University of Connecticut (Uconn)

09/2024-Present

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

Shandong University (SDU)

09/2018-06/2023

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

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.
Banking Intern

02/2023 – 05/2023
Yantai, China

- 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
Bank Lobby Manager Assistant

07/2022 – 12/2022
Yantai, China

- 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(ICSA), Volunteer

06/15/2025 – 06/18/2025, 2025

- Provided technical support for presenters and facilitated smooth execution of conference sessions.

Shandong Museum, Volunteer

03/2021 – 05/2021

- Guided visitors and introduced major collections to the public.

Mathematical Modeling Society, Member

09/2019 – 06/2020

- 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