

# DEYU XU

Phone: (+1) 959-995-0746 ◇ Email: [vqp24001@uconn.edu](mailto:vqp24001@uconn.edu)

Homepage: <https://deyuxu0218-creator.github.io>

[Github](#)

## EDUCATION

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### 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

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

## RESEARCH EXPERIENCE

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### 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

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