

# DEYU XU

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## EDUCATION

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<b>University of Connecticut (Uconn)</b> 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
<b>Shandong University (SDU)</b> 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

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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

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

  

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

## ACTIVITIES

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

## SKILLS/HOBBIES

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<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