

Anton Yang

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SUMMARY

As an undergraduate in Actuarial Science and Statistics, I am interested in exploring data analysis and statistical modeling. Through my coursework and research, I've been exposed to the practical applications of statistical techniques in addressing real-world issues. I am excited about the opportunity to apply my knowledge in a data science internship at Vituity, contributing to data analysis and offering assistance by contributing fresh ideas.

EDUCATION

University of Missouri Columbia, MO	Expected Graduation: May 2025
Bachelor of Science, major in Actuarial Science, major in Statistics	GPA: 3.92/4.0
Minor: Information Technology.	
Honors: Winner of DataFest for Use of Statistical Analysis, University of Missouri Dean's List	
Coursework: Applied Statistical Model, Database System, Mathematical Statistics, Probability Theory, Statistical Inference, Statistical Software Analysis, Theory of Interest	

PROFESSIONAL EXAMS

• Passed SOA Exam P (Probability)	December 2023
• Passed SOA Exam FM (Financial Mathematics)	January 2024
• Passed SOA Exam SRM (Statistical Risk Modeling)	May 2024
• Sitting for SOA EXAM FAM (Fundamental of Actuarial Model)	November 2024

TECHNICAL AND SOFT SKILLS

Programming Languages: R, Python, SQL, Microsoft Excel, C#
Skills: Analytical Thinking, Attention to Detail, Time Management, Organization, Quick Learner

RELEVANT EXPERIENCE

University of Missouri , Columbia, MO	August 2023 - Present
<i>Research Assistant</i>	
<ul style="list-style-type: none">Developed and implemented a simulation using R to predict probabilities and validate our mathematical computations.Utilize simulation results to optimize probability calculations, enhancing the precision of winning predictions for Base and Bullseye KENO games.Presented research findings at our school's research week, contributing to thought leadership and facilitating knowledge exchange within the gaming and statistics communities.	
University of North Carolina Charlotte , Charlotte, NC	May 2023 - August 2023
<i>Undergraduate Researcher</i>	
<ul style="list-style-type: none">Conducted extensive simulations using R programming language to develop and optimize statistical methods for personalized medicine.Explored various techniques like Ordinary Least Squares, LASSO, Kernel regression, and PCA to find the optimal treatment based on individual patient characteristics.Skillfully utilized High-Performance Computing (HPC) to expedite simulation runs, mitigating the curse of dimensionality and significantly reducing computational time by 60%.	

PROJECT EXPERIENCE

Regression Analysis on Individualized Treatment Rules

- Built extensive simulation to randomly generate medical data that accurately depicts real-world data.
- Implemented Qian and Murphy's method on optimizing Individualized Treatment Rules.
- Explored various ways to mitigate the curse of dimensionality such as PCA and Random Forest.

The Black-Scholes Model

- Designed and implemented an RShiny application to analyze stock market trends utilizing moving average smoothing and exponential smoothing techniques.
- Created interactive visualizations to display stock market performance, utilizing Holt-Winter Model and Arima models.
- Conducted comprehensive data analysis to support investment strategies and improve predictive accuracy for stock market fluctuations.