

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 within actuarial practice. 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 an actuarial internship at MassMutual, contributing to strategic decision-making and risk management in various industries.

EDUCATION

University of Missouri Columbia, MO
Bachelor of Science, major in Actuarial Science, major in Statistics
Minor: Information Technology.
Honors: Winner of DataFest for use of Statistical Analysis, University of Missouri Dean's List
Coursework: Accounting, Applied Statistical Model, Database System, Mathematical Statistics, Probability Theory, Statistical Inference, Statistical Software Analysis, Theory of Interest

Expected Graduation: May 2025
GPA: 3.92/4.0

PROFESSIONAL EXAMS

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

January 2024

May 2024

November 2024

TECHNICAL AND SOFT SKILLS

Programming Languages: Microsoft Excel, R, Python, SQL, NoSQL, C#
Skills: Analytical Thinking, Communication, Time Management, Organization, Quick Learner

RELEVANT EXPERIENCE

- University of Missouri**, Columbia, MO
Research Assistant

August 2023 - Present
- 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
Undergraduate Researcher

May 2023 - August 2023
- 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**
 - Developed comprehensive understanding of financial derivatives models: the Black-Scholes Model.
 - Derive rigorous proof of the Black-Scholes Model and applied in practical applications.
 - Collaborated with graduate student to refine modeling techniques and delta hedging.

