# Anton Yang

1228 Shingle Oak CT, Troy, MO 63379 | (636) 579-7776 | [anton794904@gmail.com](mailto:anton794904@gmail.com)

## SUMMARY

## Ambitious, adaptable, and detail-oriented professional with a Bachelor of Science in Actuarial Science and Statistics, seeking an entry-level actuarial position. Proven self-starter with a strong ability to work both independently and collaboratively within team environments. Successfully completed three actuarial exams within one year and conducted a comprehensive statistics research project, demonstrating exceptional analytical skills and a commitment to continuous learning.

## EDUCATION

**University of Missouri** Columbia, MO Expected Graduation: May 2025

Bachelor of Science, major in Actuarial Science, major in Statistics GPA: 3.91/4.0

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, Economics, 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 |
| *Research Assistant*   * 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` |

*Undergraduate Researcher*

* 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.   **Stock Market Application**   * 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. |  |