

Avery Chen

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Actuarial Analyst

Detail-oriented mathematics undergraduate with a strong foundation in probability, statistics, and financial modeling, and steady progress toward SOA actuarial certification. Eager to apply quantitative and analytical skills to risk assessment and pricing problems within insurance and financial services. Brings hands-on experience building pricing and reserving models in Python and R, backed by a track record of turning complex analysis into clear, decision-ready reports.

EDUCATION & CERTIFICATIONS

Bachelor of Science in Mathematics – Emory University, Expected May 2030 (GPA: 3.7/4.0)

Relevant Coursework: Mathematical Statistics I, Mathematical Statistics II, Linear Algebra

Certifications: SOA Probably (P) Exam -Passed, SOA Financial Mathematics (FM) Exam - In Progress

TECHNICAL SKILLS & CORE COMPETENCIES

Technical Skills: Python, R, SQL, Excel

Core Competencies: Risk Assessment, Probability & Statistics, Data Analysis, Statistical Modeling, Data Visualization, Market Research, Predictive Analytics, Machine Learning, Artificial Intelligence

RESEARCH EXPERIENCE

Emory University

Spring 2025

Undergraduate Research Assistant, Applied Statistics

- ▶ Modeled claim frequency distributions across 10,000+ rows of simulated loss insurance data, optimizing 3 statistical frameworks to streamline predictive accuracy for a faculty-led risk analysis project.
- ▶ Co-authored the foundational methodology section of a faculty working paper, translating complex frequency distribution data into actionable research insights approved by a 4-person panel.

PROFESSIONAL EXPERIENCE

Emory University

2025 – Present

Undergraduate Teaching Assistant, Introductory Statistics

- ▶ Facilitated weekly review sessions for 60+ students across 2 introductory statistics sections, translating probability concepts into applied examples relevant to actuarial coursework.
- ▶ Reviewed and graded 300+ problem sets per semester, providing targeted written feedback that helped raise the section's average quiz score from 74 to 82.

Harborview Insurance

Summer 2025

Actuarial Intern

- ▶ Prepared quarterly reserve estimates for a mid-sized property and casualty insurer, reconciling data across 4 business lines and 8,000+ claims records to flag 2 funding adjustments before the filing deadline.
- ▶ Automated a recurring reporting workflow in VBA, consolidating data from 3 internal systems and cutting prep time from 5 hours to 90 minutes, freeing up capacity for the team to take on 2 additional ad hoc analyses per month.

LEADERSHIP & INVOLVEMENT

Vice President - Actuarial Science Club, Member - Math Honor Society, Club Volleyball Team Member