

# CONNOR CHIA

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## EDUCATION

### Bachelor of Science in Financial Actuarial Mathematics, Specialization in Computing

September 2022 - Present

University of California, Los Angeles

Graduation: September 2025

Relevant Coursework: Life Insurance & Annuities, Long-Term Actuarial Mathematics, Loss Models, Probability & Statistics, Theory of Interest, Mathematics of Finance, Python with Applications, Intermediate Programming in C++

### Bachelor of Science in Actuarial Science (Transferred)

September 2021 - June 2022

University of California, Santa Barbara

## ACTUARY EXAMS

Exam P: Sitting September 2025

Exam FM: Sitting October 2025

## EXPERIENCE

### Media Content Intern

July 2023 - March 2024

*UCLA Students with Dependents Program – Los Angeles, CA*

- Led a team of five interns to produce multimedia content and marketing campaigns, reaching over 3,000 followers.
- Designed and distributed digital newsletters using Canva to highlight key resources and events.
- Collaborated with 8 staff members to plan and promote university-wide events.

## UNIVERSITY INVOLVEMENT

### UCLA Bruin Actuarial Society

September 2022 - Present

- Participated in case competitions addressing annuity pricing, reserving analysis, and catastrophe modeling using Excel.
- Engaged in technical workshops to develop proficiency in R, Excel, and VBA.
- Organized collaborative study sessions for actuarial exams.

### UCSB Actuarial Association

September 2021 - June 2022

- Attended workshops on reserving techniques and data analytics for actuarial applications.

## PROJECT HIGHLIGHTS

### NBA Player Salary Insurance Pricing Model

April 2025 - May 2025

- Built a predictive model to estimate long-term disability premiums for NBA players with applied principle of expected value.
- Integrated variables such as age, position, injury history, and salary coverage using Excel.
- Confirmed pricing model through research of real-world benchmarks and loss ratio validation.

### UCLA Bruin Actuarial Society Case Competitions

January 2022 - January 2025

2025 – *Commercial Property CAT Risk Simulation and Insurance Program Optimization*

- Modeled annual fire loss severity for a national real estate portfolio using Poisson frequency and severity curve fitting.
- Conducted Monte Carlo simulations in R to project aggregate losses from fire, earthquake, and named windstorm (CAT perils), incorporating external CAT model assumptions for claim frequency and severity.
- Compared three insurer program structures by stress testing loss scenarios and quantifying Total Cost of Risk (TCOR), Total Retained, and Loss Ratios under varying retention, limit, and co-insurance conditions.

2024 – *Predictive Lapse Modeling for Fixed Annuity Product Pricing*

- Developed a predictive lapse rate formula using historical fixed annuity data for specific policy years of a new product.
- Selected four key predictors, then built and validated a dynamic linear regression model with interpretable coefficients.
- Delivered actionable pricing recommendations to support annuity product design with enhanced forecast accuracy.

2022 – *Reserving Methodology and Automation for P&C Insurance Lines*

- Created a comprehensive VBA tool to process earned premium and claims data, construct loss development triangles, and automate reserving calculations.
- Applied Chain Ladder, Expected, Bornhuetter-Ferguson, and Cape Cod methods to evaluate ultimate losses across three lines of business.

## SKILLS

**Language:** C++, Python, Java, R, SQL, VBA

**Analysis:** NumPy, pandas, scikit-learn

**Visualization:** ggplot2, matplotlib, seaborn

**Development:** Github, Microsoft Excel, Office, Google Workspace, Jupyter, Canva