Life as a (Non-Life) Actuary at USAA

The University of Texas at Dallas

Dalesa Bady, ACAS  Jose Torres, ACAS
Associate Actuary  Associate Actuary
Graduated from UT Austin

Started USAA in Property Pricing

Work in Product Management

Relocated to Dallas in June 2017

Travel and (dark) TV shows
About Me - Jose

- **Supporter**
- **Data mining enthusiast**
- **Work in Claims Analytics**
- **Pierre**

**Past-time activities**
- Action/adventure anime & movies
- Algebra
- Computers
- Graduate Student @ SMU
- Travel
Agenda

- Introduction
- Overview of USAA
- Actuarial Life at USAA
- Q & A
- Jeopardy
- Google Colab Intro
USAA Overview

- Founded by group of officers in 1922
- Provider of insurance AND other financial services
- Military-focused
- No stockholders
- Has over 32,000 employees today
- Serving over 12 million members
- Main campus in San Antonio, several regional offices, W@H
CAS Overview

- Over 8,000 members
- Practice areas
  - Enterprise Risk Management
  - Predictive Modeling
  - Ratemaking
  - Reserving
- Continuing education is required while practicing
Actuarial Support at USAA

- **Summer Internship**
- **Actuarial Student Program**
  - Paid time off leading up to exam
  - Time off based on specific exam
  - Study materials and exam fees
- **Cross-Train Program**
  - Pricing / Reserving / Risk Mgmt
  - Modeling / Claims Analytics
  - Networking
    - Building relationships
- **Other Resources**
  - Continuing education webinars / Actuarial conference
Internship and Full-Time Applicant Considerations

Internships

- 1-2 actuarial exams preferred
- Participation in student organizations preferred
- Strong presentations skills (including resumé)

Full-Time

- 2+ actuarial exams preferred
- Recent analytical experience examined
- Strong presentation skills (including resumé)

Link to USAA Internship Posting
Actuarial Career Path at USAA

Manager vs. Technical
- P&C Pricing Director
- P&C Actuary Innovations Director
- Executive Management Group (e.g., Vice President)
  - OR –

Actuary
- Traditional probabilistic regression models
- Exploratory machine learning
- Advanced pricing / reserving analysis
- Exploratory product data mining
Some Advice to Prospective Actuaries

- Communication
- Communication
- Communication
- Knowing a programming language never hurts
- Attention to detail
- Focus on fundamentals
Some Additional Biased Advice by Jose

- Pick up Python
- If you enjoy math, master it. It will make you a better analyst.

\[ f_x(t) = \frac{x_1}{\sqrt{2}} + x_2 \sin(t) + x_3 \cos(t) + x_4 \sin(2t) + x_5 \cos(2t) + \cdots \]

https://archive.ics.uci.edu/ml/datasets/iris