

January 18, 2019



Life as a (Non-Life) Actuary at USAA

➤ The University of Texas at Dallas

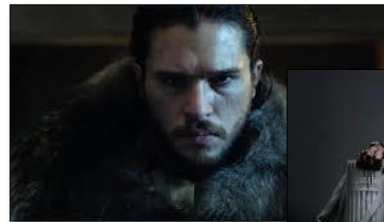
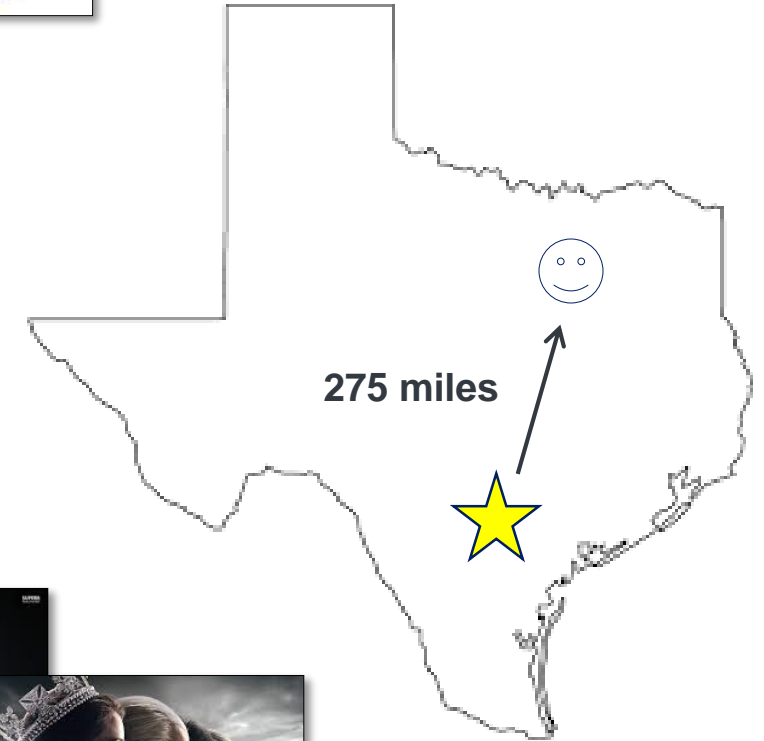
Dalesa Bady, ACAS
Associate Actuary

Jose Torres, ACAS
Associate Actuary

About Me - Dalesa



- 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



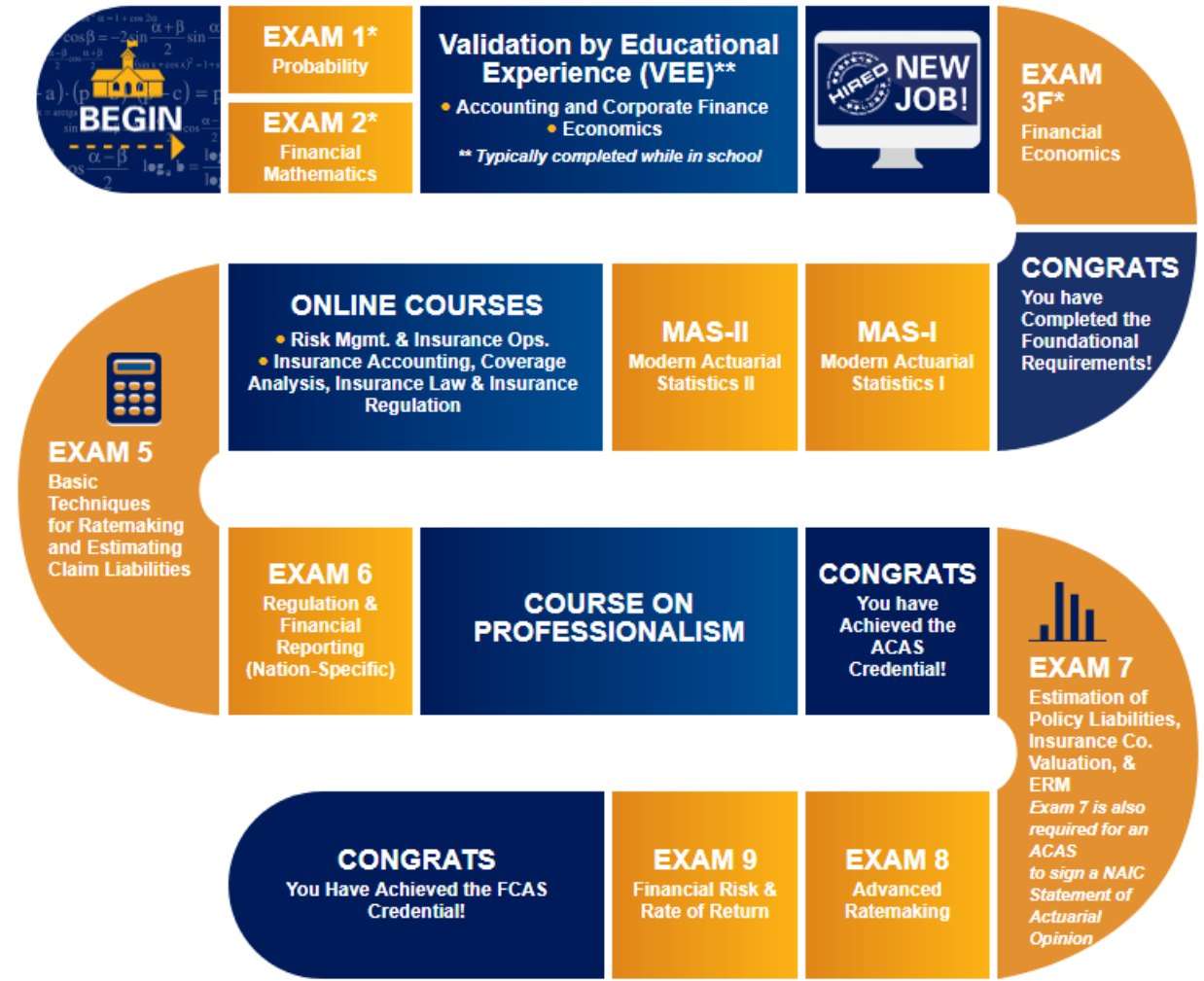
- Founded by group of officers in 1922
- Provider of insurance AND other financial services
- Military-focused
- No stockholders
- Has over 32,000 employees today
- Serving over 12 million members
- Main campus in San Antonio, several regional offices, W@H



CAS Overview

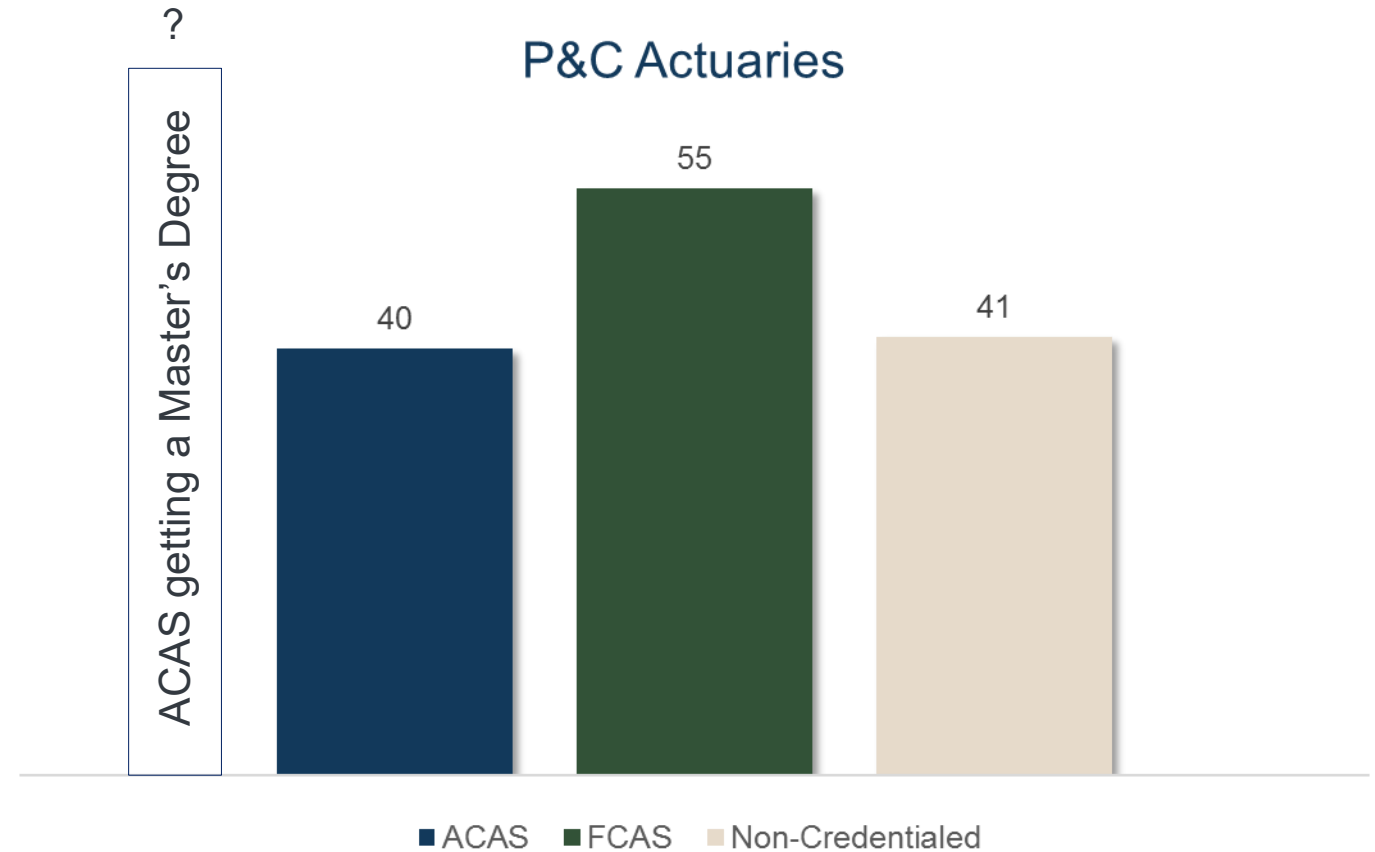


- Over 8,000 members
- Practice areas
 - Enterprise Risk Management
 - Predictive Modeling
 - Ratemaking
 - Reserving
- Continuing education is required while practicing



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 resumè)

Full-Time

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

[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

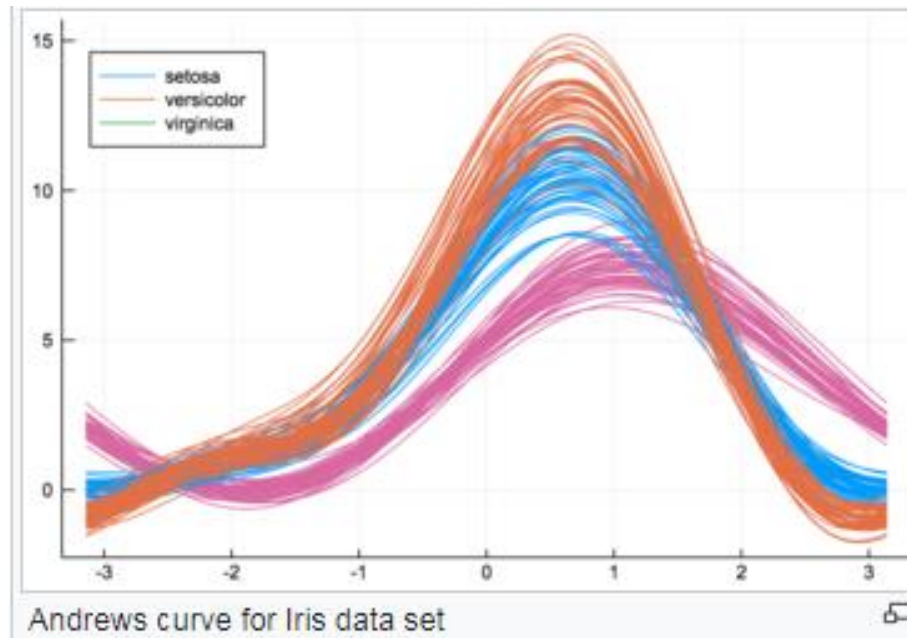
- Communication
- Communication
- Communication
- Knowing a programming language never hurts
- Attention to detail
- Focus on fundamentals



Some Additional Biased Advice by Jose

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

$$f_x(t) = \frac{x_1}{\sqrt{2}} + x_2 \sin(t) + x_3 \cos(t) + x_4 \sin(2t) + x_5 \cos(2t) + \dots$$



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



Jeopardy!



