Jacob M. Merrell

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EDUCATION

Brigham Young University, Provo, UT

Bachelor of Science, Actuarial Science

- Cumulative GPA 3.91
- I also completed master's level coursework in such topics as data mining, statistical learning, optimization, linear models, covariance structures, and simulation studies

EMPLOYMENT HISTORY

Graduate Research Assistant Brigham Young University

Provo, UT

September 2017 - August 2018

- Involved in data denumeration project which strips data of individual information yet preserves marginal totals
- Used results of a matching algorithim and SQL to compare claims costs for Vioxx and Celebrex drug users to similar persons who did not take Vioxx and Celebrex

Actuarial Analyst *Milliman*

Salt Lake City, UT

December 2015 - August 2017

- Helped price individual and small group rates for multiple carriers, as well as generate their rate tables
- Aided in formulating accrual recommendations for an employer by calculating the changes in large claim experience
- Developed a process to streamline the creation of pro forma scenarios which showed high and low estimates for the gain/loss

Actuarial Intern SelectHealth

Murray, UT

May 2015 - August 2015

- Analyzed claim distributions and ran simulations to price a reinsurance product
- Created automated monthly reports in Excel; this included writing code to query Oracle SQL using VBA
- Created a web scraping tool to export data embedded in HTML

Statistical Research Assistant Brigham Young University

Provo, UT

January 2015 - August 2015

- Headed 28 student research assistants for Brigham Young University's statistical program
- Involved in a project to determine mortality rates of U.S. immigrants and pioneers who journeyed westward
- Constructed a name matching algorithm to identify immigrants

Statistics/Property Valuation Intern Church of Jesus Christ of Latter-day Saints

Salt Lake City, UT

May 2014 - Dec 2014

- Created VBA tools to dynamically optimize decision making for the land acquisition and sizing of Church temples worldwide; helped save \$72 million for organization
- Analyzed economic indicators and created a multiple regression model to predict land values
- Designed spreadsheet to automatically adjust accounts due to changes in foreign currency rates

CERTIFICATIONS AND EXAMS

- Financial Mathematics (FM) Exam December 2014
- Probability (P) Exam July 2015
- Models for Financial Economics (MFE) Exam November 2015

SKILLS / STRENGTHS

- R, SQL, Python, VBA, Access, SAS
- Wrote a script in R that uses Markov Chain Monte Carlo methods to decipher encrypted messages
- Public speaking; addressed an audience comprised of members of the Federal Reserve Bank, and 500 other students
- Fluent in Spanish (speaking, writing, and reading)

MEMBERSHIPS/INTERESTS

- Member, Collegiate Investment Society responsible for the asset allocation of a \$5 million endowment fund
- Piano player
- Sports enthusiast
- Computer programming