

# Colton Gearhart

ACTUARY

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## TECHNICAL SKILLS

- Proficient in SQL.
- Data handling in R, including extensive use of tidyverse packages.
- Data visualization using R, including ggplot, plotly and shiny applications.
- Creating dynamic reports and websites in Quarto.
- Modeling in R, including model selection and data reduction techniques.
- Git and GitHub.
- PowerBI.
- Excel VBA.
- AS400.

## EXAMS / CERTIFICATIONS

- Exam P: SOA
- Exam FM: SOA
- MAS 1 Exam: CAS
- Exam 5 (ratemaking): CAS → Awaiting results
- Base SAS Certified

## LANGUAGES

- Native English
- Upper Intermediate Spanish

## WORK EXPERIENCE

### COMMERCIAL LINES ASSISTANT ACTUARY

*Stillwater Insurance Group*

May 2024 - Present

- Produce, manage, and make enhancements to the Excel rater, which includes applying newest ISO loss costs to the current book of business.
- Create database used to update current tier factors using SQL and R. This included aggregating, trending, and developing claims data; creating a data file of premium and rating factor information at the policy term level; and tying monthly exposure data to the corresponding policy term.
- Perform ad hoc analyses to examine loss results using a combination on Excel, R, and PowerBI.
- Manage and improve monthly in-force reports using SQL.
- Produce quarterly indications.

### PROFESSOR

*Ball State University*

Aug 2022 - May 2024

- Designed and implemented an asynchronous course in data visualization.
- Led students through undergraduate probability and statistical theory courses and a quantitative reasoning course.
- Prepared all course materials such as syllabi, guided notes, and homework assignments.
- Delivered content lectures and facilitate classroom discussions.
- Served on the Undergraduate Programs Committee.

### PRICING / PRODUCT INTERN

*American Modern Insurance Group*

Jan 2017 - Sep 2017

- Advanced use of Excel and SQL to price a new water policy.
- Work with RADAR to analyze portfolios.

## EDUCATION

**Miami University**

Aug 2018 - May 2020

**Master of Science in Statistics**

**Northern Kentucky University**

Aug 2015 - May 2018

**Bachelor of Science in Mathematics & Statistics**

## RESEARCH EXPERIENCE

**Master's Project: Sample size requirements for fitting multiple regression models**

- This research project used simulation to determine the validity of these rules under varying circumstances and how simulation can be used to help size a study aimed at prediction.

**Greaves Undergraduate Summer Research Fellowship**

- Gearhart, C. (2018), Implementation of Gibbs Sampling within Bayesian Inference and its Applications in Actuarial Science, SIAM Undergraduate Research Online, Vol. 11.
- This research project investigated a Bayesian approach within an actuarial context, with focus on a particular Markov chain Monte Carlo method, Gibbs sampling. The properties of Gibbs sampling were demonstrated and then applied within R through simulation. Extensions of this project include creating an interactive shiny app in R to demonstrate the results and replicating the Gibbs sampling algorithm in SAS.