Colton Gearhart
PROFESSOR

- Alexandria, KY, USA
- gearhart.colton.work@gmail.com
- coltongearhart.github.io/myportfolio/
- @coltongearhart
- @coltongearhart

TECHNICAL SKILLS

- 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.
- Creating documents in LaTeX.
- Git and GitHub.
- Designing and implementing simulation studies / computational experiments in R.
- Bayesian modeling via R Stan.
- Modeling in R, including model selection and data reduction techniques.
- Data management in SAS and SQL.

EXAMS / CERTIFICATIONS

- Exam P: Society of Actuaries
- Exam FM: Society of Actuaries
- Base SAS Certified

LANGUAGES

- Native English
- Upper Intermediate Spanish

WORK EXPERIENCE

PROFESSOR

Ball State University — Aug 2022 - Present

- Design and implement an asynchronous course in data visualization.
- Lead students through undergraduate probability and statistical theory courses and a quantitative reasoning course.
- Prepare all course materials such as syllabi, guided notes, and homework assignments.
- Deliver content lectures and facilitate classroom discussions.
- Serve on the Undergraduate Programs Committee.

Columbus State & Cincinnati State Community Colleges — Jan 2022 - Aug 2022

- Plan, prepare, and conduct introductory statistics courses.
- Lead students through a quantitative reasoning course which emphasizes numeracy, model-building, probability and statistics in a real-world context.

DATA MANAGER

STATKING Clinical Consulting — Apr 2021 - Jul 2021

- Perform data entry, quality control checks and creation of source documents for clinical trials.

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.