

Adam Ott

adamott20@gmail.com

Education

- **Brigham Young University** *August 2016 - Present*
 - Master of Science in Statistics
 - GPA: 4.0
 - Graduation: April 2021
 - Undergraduate Major: Statistics
 - Undergraduate Minor: Math

Work Experience

- **Healthcare Research Assistant, BYU** *October 2019 – Present*
 - Used SQL and R to retrieve and clean data on emergency room visits at Intermountain Healthcare
 - Formulated a statistical model utilizing various correlation structures to predict which populations may be at risk of visiting the emergency room unnecessarily
- **Data Science in Sports TA, BYU** *August 2020 – December 2020*
 - Worked with students in their sports projects through the entire data science process, collecting data, performing an exploratory data analysis, fitting an appropriate model, and creating product that allows a non-technical audience to understand their results
- **Data Science Intern, UnitedHealth Group** *June 2020 – August 2020*
 - Gathered and cleaned data from a large healthcare database using SQL and R
 - Fit machine learning and statistical models to explain the variation in provider treatment to patients with chronic conditions
 - Presented findings to both a technical audience and company leaders
- **Applied R Programming TA, BYU** *September 2018 – December 2019*
 - Designed fun and relevant Monte Carlo simulation studies in R twice per semester to be used in reviews and on exams
 - Debugged and graded R scripts for 15 students per week to provide feedback on how to write cleaner code
- **Energy Market Analyst Intern, Energy Exemplar** *May 2018 - August 2019*
 - Worked closely with prospective clients to formulate their database to work with the company's optimization software
 - Provided prompt feedback to developers on whether code changes had their intended effects and how those changes affected the overall user experience
 - Co-wrote 20 technical comparison documents used to help the company makes decisions on which product features to keep after a merger
- **Data Analytics Research Intern, BYU Tennis Team** *January 2018 - April 2018*
 - Collected data in Excel on over 1000 tennis points to give feedback and analysis to the BYU Men's and Women's Tennis Teams
 - Performed a statistical study in R on whether the BYU Women's Tennis Team played better or worse in "clutch" situations

Skills

- Proficient in R, SQL
- Working Knowledge of Python, SAS, Stan, C++, JMP
- R Shiny
- Some Experience Working in a Linux Environment
- Spanish

Interests

- Baseball Sabermetrics
- Healthcare Research
- Bayesian Statistics
- Data Visualization
- Musical Theater

Awards

- Part of Winning Team for Domo/Weave 2020 Case Competition
- 2020 Most Outstanding Graduate Student- BYU Statistics Program

Shiny Apps

- Baseball Scouting App
- Baseball Game Simulator
- Astros Banging Scheme Visualizations

Data Science Projects

- Finding Democratic Primary Lanes Using Correlations in Debate Word Counts
- Predict Ball-In-Play Outcomes Using Ordinal Logistic Regression
- Using Hierarchical Bayesian Logistic Regression to Assess the Impact Catchers and Umpires Have on the Probability that a Pitch is Called a Strike
- Distributional Clustering: The Key to Grouping Baseball Players

Effectively Wild Research Topics

- [Episode 1523](#)- Most consecutive years with different opening day starter at a single position
- [Episode 1524](#)- Most consecutive years with the same opening day starter at a single position
- [Episode 1541](#)- Winning pitcher giving up more Earned Runs than losing pitcher
- [Episode 1541](#)- Hit in every at bat in debut and last game
- [Episode 1553](#)- Players with World Series rings without playing in the World Series
- [Episode 1575](#)- Most Batters in an inning without a hit
- [Episode 1579](#)- Team vs. team winning streaks
- [Episode 1580](#)- Combined Half No-Hitters
- [Episode 1584](#)- Matching scores on the same day
- [Episode 1587](#)- Same Lineup spot for the entire season
- [Episode 1594](#)- Highest percentage of losses with blown leads
- [Episode 1600](#)- Biggest difference in height between opposing starting pitchers
- [Episode 1612](#)- Players with Home Runs from every lineup spot
- [Episode 1616](#)- Combinations with the most putouts
- [Episode 1623](#)- Most seasons by two overlapping players
- [Episode 1631](#)- Player with most seasons without playing for the same team