

Jackson Passey

(949) 357-5059 • jxnpass@gmail.com • LinkedIn: [Jackson Passey](#) • GitHub Blog: jxnpass.github.io

EDUCATION

Brigham Young University

Master of Science: Statistics August 2024-Present Provo, Utah

- GRE Math Score: 168/170
- Coursework in Data Mining, Advanced Probability Theory, and Statistical Computation and Simulation

Bachelor of Science: Statistics, Emphasis in Statistical Science; Minor in Mathematics August 2021-April 2024 Provo, Utah

- GPA: 4.00
- Co-valedictorian, Summa Cum Laude, Dean's List Scholar, BYU Statistics Association President, Mu Sigma Rho
- Coursework in Data Science Processes, Machine Learning, Correlated Data Analysis, Bayesian Statistics, Linear Algebra, Multivariate Calculus, Probability and Inference, and Programming in R, Python, SQL, Excel, and LaTeX

SKILLS AND ACHIEVEMENTS

- **Proficient:** R, Python, SQL, Markdown, LaTeX, Microsoft Office (Excel, PowerPoint), Power BI (M-Code, DAX)
- **Experience:** C++, Snowflake, SAS, Tableau
- Co-publisher and collaborator for Instagram's @UtahStats: research on dating culture in Provo/Orem
- First place winner at BYU Statistics Association 2023 statistics team case study competition
- Teaching assistant for introductory statistics class of 150+, 30+ students tutored on statistics concepts and methods
- Regional supervisor for two-year mission for Church of Jesus Christ of Latter-day Saints in Bismarck, ND
- Boy Scouts of America Eagle Scout Award (Top 6% of Scouts)

EXPERIENCE

Swire Coca-Cola

April 2024-August 2024

Category Market Insights Intern

Draper, Utah

- Developed back and front-end of Power BI dashboards for space planning team, visualizing shelf changes in stores.
- Hosted live training of Power BI software to team of 12+, demonstrating navigational tools to efficiently pull insights
- Presented ETL pipeline, front-end visual, and anticipated outcomes from project to 60+ peers and 5+ stakeholders
- Scribed 40+ DAX calculations to display various metrics, such as market share, store presence, and product coverage
- Extracted data sources from Snowflake, SharePoint, Excel; ingested to back-end for Power Query transformation

Department of Statistics, BYU

May 2022-Present

Research Assistant II

Provo, Utah

- Co-authored, modeled, and visualized data for working publication [analyzing glucose intake and cognitive function](#)
- Cross-validated 6 unique ML methods for increasing accuracy in knee movement model recorded from device
- Visualized data and broke down complex analyses to share insights with colleagues of various academic backgrounds
- Presented discoveries in statistical techniques in 2023 and 2024 BYU STEM Research Conference for 20+ academics
- Researched independently [tree-based ML methods](#), outlier detection algorithms for datasets, and clustering metrics
- Feature engineering, ANOVA, LME model, MANOVA, pairwise comparisons, experiment design and power analysis (sample sizing), PCA, LDA, and WLS, OLS, change-point, spline regressions, BART, random forests

BYU Statistics Association

May 2022-April 2024

President

Provo, Utah

- Co-founder and developer of the first general statistics club for BYU Statistics department
- Transitioned club volunteer roles into part-time paid roles during presidential term
- Increased membership by 50% over 2023-2024 year, now with membership of 250+ students
- Hosted 40+ club events to improve skills, share knowledge, and foster student camaraderie
- Delegated tasks in advertising, finances, record-keeping, and off-campus collaborations to team of 25 peers
- Instituted department-wide peer mentorship program to improve resumes, career development, and interview etiquette

Missionary Training Center

May 2023-June 2023

Research and Evaluation Intern

Provo, Utah

- Wrangled open-analysis survey results to present discoveries on missionary trainee experiences
 - Optimized department labor by utilizing NLP to auto-categorize participant responses
 - Designed R code to automate sample stratification among select demographics and improve annual analysis efficiency
-