Jackson Passey

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EDUCATION

Brigham Young University

Master of Science: Statistics   August 2024-Present
- GPA: 3.90   Provo, Utah
- GRE Math Score: 168/170

Bachelor of Science: Statistics, Emphasis in Statistical Science; Minor in Mathematics   August 2021-April 2024
- GPA: 4.00   Provo, Utah
- Co-valedictorian, Summa Cum Laude, Dean's List Scholar, BYU Statistics Association President, Mu Sigma Rho

SKILLS AND ACHIEVEMENTS

- **Proficient:** R, Python, SQL, Markdown, LaTeX, Excel, Power BI, Tableau
- **Experience**: C++, Snowflake, SAS
- Coursework in Data Science Processes, Experimental Analysis, Parametric Modeling, Machine Learning, Bayesian Methods, Statistical Simulation, Linear Algebra, Multivariate Calculus, Probability and Inference
- Co-publisher and collaborator for Instagram's @UtahStats: research on college culture at BYU/UVU
- First place winner at BYU Statistics Association 2023 statistics team case study competition
- Teaching assistant for introductory statistics class of 150+ students
- 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

Department of Statistics, BYU   May 2022-Present
Research Assistant II   Provo, Utah
- Co-authored working publications for analyzing glucose intake on cognitive function and youth athlete development
- 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, MANOVA, pairwise comparisons, experiment design and power analysis (sample sizing), PCA, LDA, regression (WLR, OLR, splines, CP, LASSO, etc.), BART, random forests

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

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 (to 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