

Emma Ricks's Resume

Emma Ricks

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Education

Bachelor's in Statistics | Emphasis: Statistical Science | Minor: Natural Resources

Sept. 2023 - Dec. 2027 Rexburg, ID, U.S.A

Brigham Young University-Idaho

- Completed Applied linear regression
- Exceeded in Experimental Design
- Used statistical simulation to evaluate model assumptions
- Conducted hypothesis testing and confidence intervals with large datasets
- Interpreted statistical output to support evidence-based decisions
- Worked with biological data involving population and environmental metrics
- Completed projects involving model diagnostics and residual analysis

Plane Crashes Project

July 2025 Rexburg, ID, U.S.A

Brigham Young University–Idaho

- Built a multiple logistic regression model
- Identified key factors associated with plane crash likelihood
- Used AI tools to assist in data acquisition and exploratory research
- Cleaned, organized, and analyzed aviation safety
- Developed interpretable model outputs including odds ratios and probabilities
- Effective communication and statistical reasoning

Experience

Teacher Aide

Jan. 2025 - Present Rexburg, ID, U.S.A

Math Department–Brigham Young University–Idaho

- Led class sessions and delivered instructional material when the professor was unavailable
- Graded assignments, projects, and research papers with consistent and detailed feedback
- Supported instruction for courses in biostatistics, business statistics, and intermediate statistics
- Provided academic support that improved student comprehension and course performance

Mathematics Tutor

Apr. 2025 - Present Rexburg, ID, U.S.A

Math Department–Brigham Young University–Idaho

- Tutored 15-20 students weekly, improving their understanding of algebra and statistics
- Tracked student progress using performance metrics and helped them reach their goals
- Mentored and supported students struggling with qualitative subjects, resulting in increased test scores and confidence in math

Skills

- R studio coding
- SQL coding
- Python coding
- Excel