# Contact Information

Sam M Sorensen

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Education

Bachelor of Science in Biology (Emphasis: Bioinformatics)  
Minors: Statistics, Data Science  
Brigham Young University-Idaho, Rexburg, ID

January 2021 - April 2024  
Relevant Coursework: Applied Linear Regression, Bioinformatics, Data Science Programming, Data Wrangling/Visualization, Intermediate Statistics

# Technical Skills

* **Programming Languages:**
  + **R:** Proficient in data manipulation, statistical analysis, and RNA-Seq analysis
  + **Python:** Basic proficiency with a focus on data science applications
* **Data Science & Statistical Analysis:**
  + Data cleaning, preprocessing, and statistical modeling in R
  + Hypothesis testing, differential gene expression analysis
* **RNA-Seq Analysis:** Differential expression, pathway enrichment, visualization
* **Data Visualization:** ggplot2 for creating impactful visualizations
* **Bioinformatics Tools:** Sequence alignment, genomic data analysis, database querying (NCBI)
* **Laboratory Techniques:**
  + PCR, DNA/RNA extraction, Gel Electrophoresis, DNA Cloning, Enzyme assays, Western blotting, microbial culturing
* **Collaboration & Communication:** Teamwork, scientific writing, presentations

# Research Experience

* **DNA Gel Electrophoresis Optimization:** Worked on improving electrophoresis methods in a collaborative setting
* **Insulin Production with Recombinant DNA:** Collaborated on producing insulin in bacteria
* **RNA-Seq Analysis:** Performed RNA-Seq using NCBI counts data
* **Statistical Analysis for Business:** Provided statistical insights for a small business (Yard Works)

Professional Experience

**Teaching Assistant & Tutor – Biostatistics**  
Brigham Young University-Idaho | Jan 2023 – Apr 2023

* Led review sessions, clarified statistical concepts, graded assignments

**Teaching Assistant & Tutor – Calculus I**  
Brigham Young University-Idaho | Apr 2023 – Jul 2023

* Proctored quizzes, provided concept clarification, and graded coursework