Samuel K. Wells

Email: samuelkwells9@gmail.com
Phone: (801) 440-2221
Website: https://samwells9.github.io
LinkedIn: https://www.linkedin.com/in/samuel-k-wells/

EDUCATION

B.S. in Statistics April 2025
Department of Statistics
Brigham Young University, Provo, UT
Minor: Mathematics
GPA: 3.94/4.0

HONORS & AWARDS

Dean's List - Awarded Fall 2023, Winter 2023, Winter 2024, and Fall 2024
Merit-based Scholarship - Awarded half-tuition for academic excellence, 2023 – 2025

RESEARCH INTERESTS

- Bayesian Statistics
- Statistical Learning
- Algorithmic Fairness and Ethical AI

RESEARCH EXPERIENCE

Statistical Research Assistant April 2024 – April 2025
Brigham Young University, Provo, UT
Advisor: Jake Rhodes

- Developed Python implementation of Random Forest Geometry- and Accuracy-Preserving (RF-GAP) proximities for data imputation

- Conducted literature review on missing data imputation, evaluating techniques for measuring imputation quality and identifying current best methods for imputation

Statistical Research Assistant January 2025 – July 2025
Brigham Young University, Provo, UT
Advisor: Nathan Sandholtz

- Developed a probabilistic simulation framework in R to model football penalty outcomes under varying execution errors and goalkeeper dive strategies, laying the groundwork for a game-theoretic analysis of optimal shot placement and strategic decision-making

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TEACHING EXPERIENCE

Teacher's Assistant - Statistics December 2022 – December 2023
Brigham Young University, Provo, UT

- Oversaw performance of over 40 students, conducting outreach for one-on-one assistance

- Produced weekly review presentations and instructed 100+ students on challenging statistics concepts

- Inspected students' work with quality and efficiency, while providing quick instructive feedback

Leadership

Mentor & Statistical Science Representative   April 2024 – April 2025
BYU Statistics Association

Academic Experience

Completed Coursework: Calculus I-III, Linear Algebra, Mathematical Statistics, Probability, Real Analysis I, Fundamentals of Mathematics, Applied R Programming, Introduction to Computer Science, Statistical Modeling I, Statistical Modeling II, Data Science Process, Introduction to Bayesian Statistics, Predictive Analytics, Readings in Sports Analytics, Applied Bayesian Statistics, Analysis of Correlated Data

Work Experience

Analytics Intern   October 2023 – April 2024
Extra Space Storage, Salt Lake City, UT

- Translated complex datasets into clear visualizations, facilitating a more accessible understanding of business trends and contributing to improved strategic planning

- Utilized Python and SQL programming languages to perform in depth data analysis, deriving insights which enhanced customer acquisition and increased revenue

- Collaborated with cross-functional teams to identify data-driven opportunities, improve operational efficiency, and optimize resource allocation

Consulting Intern   June 2023 – July 2023
Airbus (via the Beacon Fellowship), Madrid, Spain

- Evaluated economic value creation of rapid prototyping for world's largest commercial airplane manufacturer

- Compared business model (financing, tech capabilities, operations, marketing) of in-house lab against direct competitors (Boeing, Northrop Grumman, Raytheon, Lockheed Martin) and 6 other industry leaders

- Conducted 8 expert interviews to identify best practices for operation and presented success plan to executives

Skills

- **Programming Languages:** R, Python (NumPy, scikit-learn, pandas, XGBoost, matplotlib), SQL
- **Languages:** English, Spanish

Memberships

- American Statistical Association   2024 - Current
- International Society for Bayesian Analysis   2024 - Current