# Grant Rousseau

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## PROFESSIONAL EXPERIENCE

**Research Data Analyst**　　　　　　　　　　　　　　　　　　　　　　　July 2025-Present
*Huntsman Cancer Institute*　　　　　　　　　　　　　　　　　　　　　　　*Salt Lake City, UT*
- Abstracted 320 cases from Epic EHR to EDC to create historical control group for clinical trial
- Met timeline quota to qualify for $45,000 in additional incentives for Huntsman's research funding
- Trained and certified in HIPAA, CITI, Jira, Epic EHR systems, and hematologic malignancies

**Machine Learning Engineering Intern**　　　　　　　　　　　　　　　May 2025-August 2025
*Nusano, Inc.*　　　　　　　　　　　　　　　　　　　　　　　　　　　　　*Salt Lake City, UT*
- Developed and trained a deep learning model to measure the payload position of a pneumatic transfer system based on time series pressure data with 99% accuracy
- Launched model to Beckhoff PLC, improving operations efficiency by 300%
- Demonstrated ability to write production-level code for rapidly scaling biotechnology startup company

**Research Technician I; Computational Biology**　　　　　　　　　　June 2024-August 2024
*Ding Lab; Washington University Saint Louis Division of Oncology*　　　　　　　　*Saint Louis, MO*
- Led independent project analyzing large scale genomic datasets to investigate patterns in prostate cancer biomarkers and produced scientific-publication quality visual figures/dashboards for findings.
- Built and ran spatial transcriptomics, single-cell RNA-seq, and ATAC-seq genomic pipelines
- Identified key regions of interest across prostate serial sections for 3D reconstruction of spatial data

**Research Assistant; Scientific Communication**　　　　　　　February 2023-December 2024
*Reco Evo Research Group*　　　　　　　　　　　　　　　　　　　　　　　　　　*Provo, UT*
- First author of a high impact paper with a top 10% attention score and over 16k social media interactions
- Analyzed data in R and SPSS; used ggplot data visualization to create publishable figures for lab team
- Awarded a $2000 grant to head personal research project efforts studying academic motivation

**Curriculum Development; Biostatistics**　　　　　　　　　　　　　　August 2023-May 2024
*BYU Plant and Wildlife Sciences*　　　　　　　　　　　　　　　　　　　　　　　*Provo, UT*
- Created R and Bash autograder software for 22 homework assignments in a new biostatistics course
- Tutored, mentored, and graded for a class of 35+ intro to programming students as a teaching assistant

## SKILLS & CERTIFICATIONS

- **Languages**: R, Python, Linux, SQL, Java, Perl
- **Machine Learning**: PyTorch, TensorFlow, scikit-learn, Keras, ONNX, Docker
- **Data Analysis & Visualization**: ggplot2, Pandas, dplyr, Power BI, Matplotlib, Tableau
- **Other**: Cloud Computing, Version Control, Agile Methodologies, Oncology, Genomic Analysis, EHR, ETL, Fluency in Vietnamese, IRB, HIPAA, CITI Certified: 55245365

## PUBLICATIONS

- **Rousseau, Grant**; et. al. (2025). Offering Alternatives to Biblical Literalism May Be the Key to Increasing the Public's Acceptance of Evolution. Journal for the Scientific Study of Religion
- Hubble, G., Willis, J., Abele, J., Bourne, D., Lawrence, O., Patterson, D., Rockwood, M., **Rousseau, G.**, Shumway, S., Tolman, E., Zollinger, T., & Jensen, J. (2023). Using a Reconciliation Module to Change Minds about COVID-19. Medical Research Archives, 11(5). doi:10.18103/mra.v11i5.3554
- Spatial Transcriptomics Analysis Reveals the Role of Club Cells in Prostate Cancer (Under review)

## EDUCATION

**Brigham Young University**　　　　　　　　　　　　　　　　　　　　　　　December 2024
*Bachelor of Science: Genetics, Genomics, and Biotechnology*　　　　　　　　　　　*Provo, UT*
Minor in Healthcare Leadership, Entrepreneurship
- Graduated Cum Laude with 3.97 GPA
- Awards/Presentations: College Undergraduate Research Award (CURA), Simmons Center For Cancer Research Summer Fellowship Award, BYU Full Tuition Academic Scholarship, Utah Conference on Undergraduate Research 2024, BYU Life Science Research Conference 2024