

# JONATHAN DICKINSON

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## TECHNICAL SKILLS

**Languages:** Python, SQL, NoSQL, Javascript, HTML, CSS

**Packages:** Plotly, Matplotlib, Pandas, Numpy, SciPy, Scikit-learn, Streamlit, Requests

**Tools:** Git, Linux/Unix, GCP Firestore

**APIs:** STRING, UniProt, GCP

## EXPERIENCE

### Bioinformatic Analyst II

September 2022 - Present

Remote

- **Developed internal web application** using STRING API to generate graph networks of SomaLogic's 7000-plex proteomics assay leading to biomarker discover and community detection.
- **Consulted with researcher's** and pharma companies on analysis of proteomics data and provided training on SomaLogic analysis packages and tools.
- **Generated novel visualizations** of SomaLogic's normalization pipeline to help explain data standardization and normalization.

### Adjunct Faculty Lecturer

January 2022 - Present

Central Washington University | Ellensburg, WA

- **Developed CRUD [web application](#)** in Python using Streamlit and GCP Firebase. Allows clients to sign up for fitness assessment and provides clients with dashboard to monitor fitness over time.
- **Managed 15 undergraduate and 5 graduate students** across a lab and practicum and taught submaximal VO2max and body composition assessment techniques.

### Graduate Research Assistant

September 2020 - June 2022

Central Washington University | Ellensburg, WA

- **Built data pipelines** to filter and preprocess next-generation sequencing data to evaluate differential gene expression using Python libraries Pandas and Numpy saving 5 hours per week cross-referencing outputs between databases.
- **Performed differential expression analysis** on processed data using Pandas and NumPy to identify the 30 genes most significantly associated with aging.
- **Analyzed bioinformatic visualizations** (protein networks/volcano plots) that led to the discovery of 65 target genes for possible therapeutic intervention.
- **Generated publication-ready visualizations** using Python libraries Seaborn and Matplotlib for multiple research projects, resulting in 5 publications and 5 regional conference presentations.

## EDUCATION

### Master of Science: Human Physiology

June 2022

Central Washington University | Ellensburg, WA

### Bachelor of Science: Biology

March 2019

University of California, Irvine | Irvine, CA