

Mikias Woldetensae

Researcher and Data Analyst with 8+ years of experience across wet-lab and dry-lab roles, specializing in bioinformatics, data analysis, and high-dimensional data workflows. Proficient in statistical modeling and advanced analytical methods, with a proven record of designing cost-effective, scalable solutions that improve data integrity, rigor, and operational efficiency.

Work Experience

Research Associate, Fred Hutch Cancer Center

July 2024 - Oct 2024

- Analyzed Multiple Myeloma clinical trials leveraging multinomial logistic regression to correlate cell type distributions and clinical outcomes.
- Enhanced single-cell RNA sequencing analysis workflows by updating transformation methods, allowing for increased data resolution.
- Optimized cryogenic patient sample retrieval workflow leading to a 20% reduction in cell loss.

Research Technician/Data Analyst, Benaroya Research Institute

Aug 2019 - July 2024

- Designed a 24 color flow cytometry workflow, utilizing various R scripts for experimental preparation, sample annotation and data analysis.
- Reverse-engineered a RNA extraction method, reducing costs by over 80% per sample while enhancing workflow flexibility.
- Validated three humanized mouse models to study virally induced asthma and hospitalization in immunocompromised patients.
- Developed an inventory management system leading to a 30% reduction in wasted resources and costs.
- Conducted risk assessments of laboratory spaces and revised Institutional Biosafety Committee protocols to align with CDC guidelines, achieving a 15% reduction in hazardous incidents.

Phlebotomist/Medical Assistant, Bloodworks Northwest

June 2017 - Aug 2019

- Performed approximately 2,000 blood collections with 98% efficacy, ensuring donor safety and maintaining high procedural standards.
- Implemented techniques to minimize adverse reactions, enhancing donor comfort and safety.

Educational Background

Bachelor of Science, Molecular & Cellular Biology

University of Washington
Graduated Jan 2016

- Specialization in Mathematics

Bachelor of Art, Psychology

University of Washington
Graduated Jan 2016

Character Reference

Florence Roan MD PhD

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Contact

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Skills

Technical Skills

- Statistics
- Machine Learning
- Cloud Computing
- Data Analysis Pipelines
- Single Cell Sequencing
- Spatial Sequencing
- Transcriptomics & Proteomics
- Flow & Mass Cytometry

Tools/Software

- VS Code
- Jupyter Lab
- Linux
- Github
- Excel
- Power Bi
- Tableau

Languages

- R (Proficient)
- Python (Proficient)
- SQL (Intermediate)
- Bash (Intermediate)
- C++ (Beginner)

Self Study

- “Hands-On Machine Learning with Scikit-Learn & TensorFlow” Aurelien Geron
- “Tidy Modeling with R” Max Kuhn & Julia Silge

Online Presence



github.com/MikiasHWT



linkedin.com/in/MikiasHWT



MikiasHWT.com