

Elizabeth Wong

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Analyst Portfolio: <https://missyou22too.github.io/ElizabethWong-Analyst-Portfolio>

SUMMARY

Data Analyst with expertise in Python, SQL, and machine learning. Proven track record building automated analytics pipelines that reduce manual work by 85% and translating complex datasets into actionable insights. Combines scientific research rigor with business analytics—background in biomedical research brings strong statistical analysis skills and meticulous attention to data quality.

TECHNICAL SKILLS

Programming: Python (pandas, NumPy, scikit-learn, Flask) • SQL • R • Excel

Tools and Skills: Tableau • Dashboard Development • Machine Learning • Statistical Modeling • ETL Pipelines • KPI Tracking • AWS

EXPERIENCE AND PROJECTS

Data & Insights Specialist

Oct 2024 – Present

Regatta-Playbook • Remote

- Created an automated race analytics platform *Regatta-Playbook* and ETL pipeline removing a historic cost barrier to develop a previously untapped customer market using Python and Machine learning, reducing analysis time by 85% and saving over 400+ hours annually
- Developed predictive models analyzing 10,000+ data points per event to identify patterns and optimize team strategy, establishing high-trust data infrastructure and QA safeguards for real-time analytics
- Designed interactive dashboards enabling non-technical stakeholders to explore performance insights independently

Research Technician I

Mar 2021 – Jun 2024

Fred Hutchinson Cancer Center • Seattle, WA

- Spearheaded new experimental end to end ELISpot study becoming immunoassay subject matter expert, presenting and coordinating findings with multiple institutions, contributed analysis and data to peer reviewed publications
- Ran specimen tracking database of over 100,000 samples and developed SOPs that improved data accuracy and reduced processing errors by 30%
- Managed BSL-2 lab operations including quality control, data security protocols, and training for 5+ team members

Laboratory Analyst

Dec 2020 – Feb 2021

Institute of Environmental Health • Seattle, WA

- Processed 1,000+ COVID-19 samples daily with 24-hour turnaround, maintaining 99%+ accuracy under high-volume conditions

EDUCATION

Massachusetts Institute of Technology

2024

Applied Data Science Program — Machine Learning, Statistical Modeling, Python

Whitman College

2019

B.A. Biology, summa cum laude

PUBLICATIONS

Zamora, D., Xie, H., **Wong, E.** *et al.* ELISPOT as a predictor of clinically significant cytomegalovirus infection after hematopoietic cell transplantation in letermovir recipients. *Bone Marrow Transplant* 60, 1137–1145 (May 2025). <https://doi.org/10.1038/s41409-025-02611-4>

Wang, W., **Wong, E.**, Cato, M. L., *et al.* Quick Oil Red O, Paint3D and Biopython as an economical tool to measure total lipid levels in *Caenorhabditis elegans*. *microPublication biology*, (Jan 2025). <https://doi.org/10.17912/micropub.biology.001320>