

# Elizabeth Wong

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

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## SUMMARY

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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.

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## TECHNICAL SKILLS

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**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

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## EXPERIENCE AND PROJECTS

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### 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

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## EDUCATION

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### Massachusetts Institute of Technology

2024

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

### Whitman College

2019

*B.A. Biology, summa cum laude*

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## PUBLICATIONS

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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>