

Maya Arnott

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Data scientist passionate about leveraging programming, statistical modeling, and laboratory expertise to generate meaningful insights for life sciences and healthcare challenges.

EDUCATION

Master of Science in Environmental Health Data Science *Columbia University*, August 2025 - December 2026

Relevant Coursework: Biostatistical Methods (Linear Modeling, Estimation & Hypothesis Testing, Analysis of Variance),

Data Science (Data Visualization, Reproducibility, & Data Handling), Public Health GIS, Machine Learning for Epidemiology

Clubs: Columbia Mailman Consulting Club and Health Tech Group

Bachelor of Arts in Environmental Science *Washington University in St. Louis*, August 2019 - May 2023

Major Environmental Biology **Minor** Urban Studies

Relevant courses: Biogeochemistry, Applications in GIS, Environmental Engineering, Computing for Engineers

(Python/MATLAB & Computer Systems), Statistics, Microeconomics (Consumer Theory, Market Structures & Failures)

SKILLS & CERTIFICATIONS

- **Programming Languages:** R, Python, SQL
- **Libraries, Frameworks, Techniques:** tidyverse, Shiny, pandas, NumPy, raster, leaflet, matplotlib
- **Databases:** PostgreSQL/ MySQL, CSV/Excel/structured datasets
- **Tools:** Git/GitHub, VSCode, RStudio, Tableau, API usage, QGIS/ ArcGIS, Jupyter Notebook
- **Laboratory Skills:** Flow cytometry, ELISA, BAMA, phagocytosis assays, cell culture, sterile technique, buffer formulations, SOP compliance

EXPERIENCE

Life Science & AI Research Expert, *Mercor Corporation* | Remote Contractor | May 2025 - Present

- Craft datasets and domain specific problems to train large language models in biology and life sciences for an AI startup, improving AI hallucinations by 26.7%
- Collaborate with engineers, scientists, and designers to evaluate the content complexity and accuracy of AI response

Research Technician II, *Duke University* | Durham, NC | July 2023- June 2025

- Performed highly technical bioassays to evaluate vaccine candidates and adjuvants for HIV-1 and SARS-CoV-2
- Streamlined project workflows by creating automated reports in R and SAS, reducing turnaround time by 30%
- Trained new hires on complex bioassays and how to understand and analyze the assay readouts
- Synthesized complex immunological results to support data-driven recommendations for vaccine design and strategy

Air Quality Analyst, *Washington University in St. Louis* | St. Louis, MO | June 2022- May 2023

- Used custom Python scripts to analyze and clean global air quality datasets containing millions of records from a global particulate network called SPARTAN, improving workflow by 40%
- Quantified black carbon levels using image and regression analysis, supporting environmental impact assessments
- Presented findings to academic advisors and engineering faculty, contributing to larger research publications

Research Intern, *Donald Danforth Plant Science Center* | St. Louis, MO | March 2021- June 2022

- Analyzed large datasets on plant material/phenotypes to develop sustainable crops using R
- Focused on determining the extent to which plant traits determine community and soil ecosphere properties
- Developed lesson plans for middle and high schoolers to grow enthusiastic around biology and plant science

ACTIVITIES

Varsity Basketball Team Co-Captain, *Washington University in St. Louis* | St. Louis, MO | August 2019 - May 2023

- NCAA All-American and All Conference team member in 2023
- Received Junior Athlete of the Year Award for my skill and excellence in playing varsity basketball