Maya Arnott

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Interested in applying data science and analytical principles to complex healthcare and environmental challenges.

EDUCATION

Columbia University | Mailman School of Public Health | New York, NY *August 2025 - August 2026*
Master of Science (M.S.) in Environmental Health Data Science
Relevant courses: Data Science I & II, Biostatistical Methods I and II, Public Health in GIS, Molecular Epidemiology
Activities: Consulting Club

Washington University in St. Louis | College of Arts and Sciences | St. Louis, MO *August 2019 - May 2023*
Bachelor of Arts (B.A.) in Environmental Science
Major Environmental Biology **Minor** Urban Studies
Relevant courses: Biogeochemistry, Applications in GIS, Sustainability in Business, Environmental Engineering, Environmental Biology, General Chemistry I & II, Introduction To Computing for Engineers, Microeconomics

The Beacon School– New York, NY *September 2014 - 2019*
High School Diploma

KEY SKILLS

GIS | R | Python | Technical Writing | Data Analytics | Microsoft Office Suite
Always Curious | Problem-Solving | Leadership | Detail-Oriented | Teamwork

EXPERIENCE

Mercor Corporation | Contractor | Remote *May 2025 - Present*
Life Sciences & AI Research Expert
- Craft datasets and domain-specific problems to train AI language models in biology and life sciences
- Collaborate with AI teams to evaluate the content complexity and accuracy of AI responses

Duke University | The Tomaras Laboratory | Durham, NC *July 2023 - June 2025*
Research Technician II
- 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%
- Synthesized complex immunological results to support data-driven recommendations for vaccine design and strategy
- Supported ongoing research projects with regular updates and coordination across research leads and labs

Washington University in St. Louis | Professor Martin's Environmental Engineering Laboratory *June 2022- May 2023*
Air Quality Analyst
- Used custom Python scripts to analyze and clean global air quality datasets from a global particulate network called SPARTAN, improving workflow by 40%
- Quantified black carbon levels using image analysis and statistical methods, supporting environmental impact assessments
- Presented findings to academic advisors and engineering faculty, contributing to larger research publications

Washington University in St. Louis | Professor Bose's Microbiology Laboratory *April 2022- January 2023*
Research Intern
- Worked on my research project assessing if microbes can break down the carbon-fluorine bonds in PFOS, a forever chemical contaminant that has been linked to cancer and other health risks, in hopes that microbes can be used to mitigate the harmful effects that PFOS have on humans, animals, and our oceans
- Grew cell culture media and was trained working in anaerobic/aerobic environments

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

ACTIVITIES

Varsity Basketball Team | Washington University in St. Louis *August 2019 - May 2023*
Team Captain
- 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
- Developed strong team-building, leadership and time management skills