Amanda Gale

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Education

Masters of Bioinformatics   Sept. 2024- April 2026 (expected)
Northeastern University, Boston, MA   GPA: 4.0
Data Analytics Certificate   December 2026 (expected)
Northeastern University, Boston, MA
Bachelor of Science in Biochemistry   March 2017 – June 2020
Minors in Math & Physics
Western Washington University

Technical Skills

Programming Languages: Python, R, SQL
Bioinformatics Skills: HPC cloud, samtools, BLAST, FASTA
Biotechnology Skills: mRNA production & cell expression pipeline
Operating Systems: Linux, Windows, Mac
Tools: MS Office, LaTeX, Git

Employment

Quality Control Technician (Genscript)   April 2022 – Sept 2022
- rigorously tested mRNA to ensure quality for research or medical use
- expressed mRNA in human cells and produced robust analytical data reports
- aided my team members in production efforts and SOP management
- predicted mRNA expression levels based on proprietary sequences

Research Associate (Altius Institute for Biomedical Sciences)   April 2021 - Oct 2021
- extracted and analyzed mRNA from COVID-19
- surveyed the spread of viral variants in a major metropolitan county
- designed a Python script for locating archived samples of interest for sequencing
- developed new testing method for out-of-state patients
- assisted team in experiment design and execution

Academic Projects

Undergraduate Researcher (WWU)   Sept 2018 - June 2020
- explored drug development with amino acid scaffold in multistep organic synthesis
- reviewed CRISPR-based gene knockout potency in *C. elegans*
- optimized proteins for targeted chemotherapeutics
- discovered new form of algal-based lipid used to make jet fuel: (O'Neil et al., 2021)

Leadership

President   September 2018-June 2020
Western Washington University Motorcycle Club