Hera Dashnyam

Data Analytics – Bioinformatics | Environmental Science
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EDUCATION

MIAMI UNIVERSITY   **Oxford, OH**
Bachelor of Arts   **December 2025**
Data Analytics (Bioinformatics) & Environmental Science
- Applied Python, R, and genomic tools (BLAST, GenBank) in research-based coursework and faculty labs; active in Women in Computing and Data Scholars.

KOREA UNIVERSITY   **Seoul, Korea**
Study Abroad   **April 2024**
Environmental Science
- Studied environmental science in a cross-cultural academic setting; strengthened global perspective on environmental policy and data-driven research.

SKILLS

- Bioinformatics & Genomics: RNA-Seq, BLAST, GenBank, StringTie, pybedtools, GTF/GFF3.
- Programming & Analysis: Python, R; data processing, statistical modeling, workflow automation.
- GIS & Public Health: ArcGIS, ACS data, spatial analysis for climate and health research.
- Scientific Communication: Research writing, hypothesis testing, interdisciplinary collaboration.

EXPERIENCE

MIAMI UNIVERSITY   **Oxford, OH**
Public Health Research Assistant   **June 2025 - Present**
- Conducted paid research on climate-related power outage risks using ArcGIS, ACS, HHS emPOWER, and VIIRS data; supported public health planning with spatial analysis and cross-level collaboration.

MIAMI UNIVERSITY   **Oxford, OH**
Information Services Specialist   **August 2024 - Present**
- Planned campus events and facility operations by coordinating audio/visual setup, assisting with event technology, and responding to on-site technical needs in real time.

MERRIFIELD GRANITE & MARBLE   **Newington, VA**
Environmental Data Analyst & Product Development Intern   **January 2024 - July 2024**
- Conducted environmental and product data analysis on creek health and 200+ materials, helping reduce ecological impact and improve company sustainability by 15%.

PROJECTS

SUSTAINABILITY & PUBLIC HEALTH DASHBOARDS +   **Oxford, OH**
Solo Projects - https://maralguadashnyam.github.io/Portfolio   **August 2022 - Present**
- Designed a forest-themed animated portfolio site using R Markdown, HTML/CSS, and JavaScript.
- Built interactive dashboards and automated genomic pipelines using R, Python, BLAST, and GenBank.

RNA-SEQ TRANSCRIPTOME COMPARISON   **Oxford, OH**
Miami University – Dr. Chun Liang, Department of Biology   **August 2024 - Present**
- Developed RNA-Seq pipelines using pybedtools and StringTie to identify novel transcripts and gene isoforms from chicken genome data.

VOLUNTEER WORK

HERACADEMIA   **Ulaanbaatar, Mongolia**
Volunteer English Tutor   **June 2024 - Present**
- Tutored students (ages 7–18) in English remotely and in hybrid settings, supporting language development and cross-cultural communication.