Sneha Yamsani

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Education

Case Western Reserve University, Cleveland, OH — Expected Graduation: 2022
M.S. in Biomedical and Health Informatics

Coursework: Statistical Methods I, Data Driven Introduction to Genomics and Human Health

University of Washington, Seattle, WA — Graduation: June 2019
B.S. in Molecular, Cellular & Developmental Biology
Minor**:** Applied Mathematics GPA: 3.27 Dean's List: Autumn 2015, 2017

Coursework: Computational Modeling of Biological Systems, Data Science for Biologists

Skills

- PCR, qPCR, RT-PCR, LAMP
- ELISA
- Sterile technique
- Inoculation
- Bacterial Culture and Isolation
- Nanodrop
- Agarose Gel Electrophoresis and Gel Documentation
- Primer/Assay Design
- Plant Pathology
- Data Processing (BioEdit)
- Programming Skills (MATLAB, R, Python, SQL)

Work Experience

Molecular Diagnostic Lab Technician, Corteva Agriscience, Johnston, IA — Aug 2019-Jul 2021
- Extract DNA/RNA from diseased **plant samples** and **FTA Cards** to identify and inform disease diagnosis to sample submitters through ELISA, PCR, and sequence analysis
- Examine and diagnose diseases for corn and soybean using microscopy
- Design primers using BioEdit software for disease detection for more accurate diagnoses
- Input sample/diagnostic information into company database

Microbiology Research Intern, Fred Hutchinson Cancer Research Center, Seattle, WA — Feb-Jun 2019
- Homogenized and prepared **stool samples** for long term gut microbiology study
- Extracted DNA from stool samples to identify genetic makeup of samples
- Quantified DNA to determine sample use for later microbiology studies

Biology Intern: Lab Operations, Bristol Meyers Squibb: Zymogenetics, Seattle, WA — Jun-Sep 2017
- Cleaned and sterilized labware saving scientists 20 hours of the workweek
- Restocked lab supplies for 20 bench stations
- Consolidated cell lines for easier use in research studies

Activities

MercyOne Des Moines Medical Center — Aug 2019-Feb 2020
- Disinfected and reorganized toys in pediatrics playroom
- Played games and read stories to pediatric patients

Applied Analytics Club at University of Washington — Sep 2018-Jun 2019
- Created and maintained relationships with local companies to provide mentorship opportunities
- Led networking events with local companies to provide insight into Data Analytics field

DAWGMA: Designed by Amateurs Working on Genetic Modification Autonomously — Sep 2015-Dec 2017
- Discovered new responses like color and luminescence with different yeast biosensors
- Investigated Gibson assembly and transformation by knocking out a specific gene from a purple yeast strain to create different colored yeast such as red, blue, and green yeast
- Created a compilation of basic skills and methods used in biology for other students to use and learn from