

Ishya Casukhela

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EDUCATION

The Ohio State University
Bachelor of Science in Mathematics, Specialization Biology, Minor in Spanish

Columbus, OH
Graduation: December 2021

SKILLS

- R/RStudio, MATLAB, and C++
- Machine learning model building for statistical learning
- Data wrangling, regression analysis, ANOVA, hypothesis testing, inferential statistics testing
- Fluent in English, Spanish, Telugu

RESEARCH EXPERIENCE

Machiraju Laboratory – Undergraduate Student Researcher
Digital Pathology Laboratory

January 2021-Present

- Utilize R to conduct resampling and design of experiments on soft tissue sarcoma clinical data
- Implement sampling methods, such as downsample, decimation, and permutation testing
- Create training, validation, and test data sets for a multi-task machine learning model to automate sarcoma tissue recognition

WORK/INTERNSHIP EXPERIENCE

Athena Infonomics

Data Analytics Intern

Remote
May 2020-August 2020

- Analyzed data regarding the presence of waterborne illness in Mumbai, India
- Studied ordinary least squares regression and linear-mixed effects models theory
- Used R to clean datasets and construct maps of Mumbai, India
- Developed literature review and data on waterborne illnesses based on particular factors, like precipitation, infrastructure access, and climate changes

The Ohio State University

Research Commons Students Aide I

Columbus, OH
September 2018-August 2020

- Provided basic directional and reference assistance to library patrons, including information about Research Commons space, services, technology, and events

The Ohio State University at Lima: Math Learning Center

Math and Statistics Tutor/Grader

Lima, OH
August 2017-August 2018

- Assisted students in understanding various math concepts ranging from pre-college math to Calculus II
- Assessed students' knowledge and led them to understanding concepts for themselves
- Worked with other tutors and professors to provide effective tutoring for various learning styles

ACADEMIC PROJECT EXPERIENCE

Introduction to Mathematical Biology – Final Project

Spring 2020

- Studied peer-reviewed article, conducted and presented a thorough critical review on the authors' differential equation model

Quantitative Neuroscience – Final Project

Spring 2020

- Picked a neural system to study and modeled using XPPAUT
- Worked on modelling interaction between cerebellar Golgi cells and cerebellar granule cells

EXTRACURRICULARS & LEADERSHIP EXPERIENCE

- **MEDLIFE at OSU:** Historian and Public Relations Chair
- **Unmasked at OSU:** Researcher

August 2019-January 2021
August 2019-April 2020