

Arshiya Mariam

mariamarshiya1@gmail.com | 216.535.8616 (cell)

EDUCATION

John Carroll University, University Heights, OH

Bachelor of Science in Data Science

Cumulative GPA: 3.89 Dean's List 7 semesters

August, 2015- January, 2019

PUBLICATIONS

Co-Author: Assessment of Adverse Events and Their Ability to Discriminate Response to Anti-PD-1/PD-L1 Antibody Immunotherapy (2020). McLeod HL, **Mariam A**, Schveder KA, Rotroff DM. *J Clin Oncol*. 38(1):103-104. doi:10.1200/JCO.19.01712

Co-Author: Neoadjuvant chemoradiation improves oncologic outcomes in low and mid clinical T3N0 rectal cancers (2020). Lavryk OA, Manilich E, Valente MA, **Miriam A**, Gorgun E, Kalady M, Shawki S, Delaney C, Steele S. *Int J Colorectal Dis*. 35(1):77-84. doi:10.1007/s00384-019-03452-6

CONFERENCES

Presenter: Relationship of Epistemic Beliefs and Sociopolitical Attitudes (2019). **Mariam A** and Yost J. *Midwestern Psychological Association*. Chicago, Illinois.

Co-Author: Multiple Primary Cancers: Associations & Network Link Analysis (2019). Manilich E, **Mariam A**, Zinda Z and Hanif S. *Clinical Informatics Conference*. Atlanta, Georgia.

Co-Author (Abstract): Neoadjuvant Chemoradiation Improves Oncological Outcomes in Middle and Lower cT3N0 Rectal Tumors (2018) Lavryk OA, Manilich E, **Mariam A**, Champagne BJ, Valente MA, Gorgun E, Kalady MF, Shawki S, Delaney CP, Steele SR. *Diseases of the Colon & Rectum* (61).

SKILLS

Data Science Toolkit: R, Python, PySpark, Java, Jupyter, SPSS, Hadoop, Google Cloud Platform, Shiny, SynGlyphX, Regression, Survival Analysis, Data Mining, Machine Learning, Network Analysis

Other: Android Studio, Eclipse

RESEARCH EXPERIENCE

Cleveland Clinic Foundation | Cleveland, OH | Bioinformatician Technologist

March 2019 - Present

- As part of the Rotroff lab, research focuses on developing predictive signatures and drug response in complex diseases
- Projects include analyzing clinical, EHR and -omics data using statistical analysis and machine learning

Undergraduate Research Experience

Cleveland Clinic Foundation | Cleveland, OH | Data Science Project

May 2017 - December 2018

- Analyzed complex cancer database in R, Python and PySpark on Google Cloud Platform
- Designed machine learning algorithms and interactive statistical web application
- Co-authored a paper that was presented at a national surgical conference
- Designed 3D visualization for cancer survival

Case Western Reserve University, School of Law | Cleveland, OH | Data Science Project

May 2018 - December 2018

- Analyzed global terrorism data and developed interactive visualizations in R
- Investigated the trends of terrorism across different calendar type

John Carroll University | University Heights, OH:
Behavioral Psychology Lab | Research Assistant

January 2017 - May 2017

- Communicated and organized experiment sessions with participants
- Supervised experiment sessions
- Reviewed literature to gather data on commonly and seldom used statistics

Neuroscience Lab | Research Assistant

August 2016 - December 2016

- Created documentation on Starr Life data collection application for incoming research assistants
- Conducted cognitive tests on, and physiological data from rats over the course of the experiment

HONORS AND AWARDS

Colleran Weaver Summer Research Fellowship, 2017 and 2018

Outstanding Undergraduate Research Award, 2018 and 2019

18th annual celebration of scholarship poster competition winner, 2019

OTHER EXPERIENCE

John Carroll University | University Heights, OH:

Mathematics and Computer Science Department | Data Science Teaching Assistant

August 2018 - December 2018

- Configured a cloud based computational platform for hadoop and python applications
- Design and grade programming assignments in R

Information Technology Services | Student Technician

September 2015 - December 2018

- Level 1 and level 2 client support and light system administration
- Trained entry level student workers in phone etiquette and troubleshooting reported issues
- Image and configure Windows 7 and 10 devices
- Manage student time sheets

Mathematics and Computer Science Department | Data Science Tutor

August 2017 - May 2018

- Tutored undergraduate students majoring in data science and assisted with assignments and exam preparation
- Utilized R and Python to teach students machine learning algorithms