

PHOEBE LOKWEE

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EDUCATION

Brown University (Providence, RI)

Major: Biology (Biomedical Informatics Track – GPA 3.63)

Expected Graduation: May 2022

Relevant coursework: Healthcare in the US | Introduction to Object Oriented Programming (Java) | Organic Chemistry | Biochemistry | Introductory Statistics -- RStudio | Methods in Informatics and Data Science for Health (Julia)

PROFESSIONAL AND LEADERSHIP EXPERIENCE

Gamma Knife Radiosurgery for Refractory Trigeminal Neuralgia (TGN)

Research Assistant (Rhode Island Hospital, Providence, RI)

January 2021 – Present

- Performed statistical analysis of patient data to determine dosimetric and clinical predictors of successful treatment
- Used MATLAB to manipulate and analyze DICOM radiation therapy dose, structure and image files
- Prepared visualizations to determine efficacy and toxicity level of Gamma Knife Radiosurgery on TGN patients

Campus Compact

Research Assistant Intern (Boston, MA – Online)

July 2020 – August 2020

- Performed comprehensive literature review to find information on the role of higher learning institutions in preserving democracy
- Generated credible research information on questions relating to civic engagement in colleges

Office of Residential Life

Residential Peer Counselor (Brown University)

September 2019 – August 2020

- Facilitated workshops to promote respect, personal growth, and intellectual development in a residence hall unit of 60 first years
- Received comprehensive training on awareness of active listening, conflict resolution, building community
- Delivered information about academics and campus resources to a residence hall consisting of 60 first-year students

PROJECTS

World Bank Data Visualization

May 2021

- Generated 2016 World healthcare data using world bank API
- Used Pandas to perform data wrangling and cleaning
- Used Matplotlib, Seaborn, and Plotly to generate beautiful and informative plots from the data

Find Clinical Trials

April 2021 – May 2021

- Generated data by scraping ncbi.nlm.nih.gov/clinvar/ and clinicaltrials.gov using BeautifulSoup and Selenium libraries
- Used Pandas to transform the data into a dataframe and move to MySQL database
- Used Flask, HTML and CSS to create a web application where users can search for currently recruiting clinical trials

The Behavioral Risk Factor Surveillance System (BRFSS) Data Analysis

March 2021 – April 2021

- Made use of 2019 BRFSS data to study the effects of substance use on physical health outcomes
- Used Julia to perform data wrangling, cleaning, and machine learning analysis
- Performed Logistic regression and Chi-squared tests to determine significant relationships

COMMUNITY ENGAGEMENT

Cross World Africa (CWA)

Intern (Nairobi, Kenya)

June 2019 – August 2019

- Supported the women beneficiaries of CWA cows to access banks and even get loans to expand their agriculture business
- Mentored girls on sexual education

SKILLS AND INTERESTS:

Technical: MS Office(Proficient) | Data Generation (API use and Web scraping) | Data Visualization | Data analysis | Machine Learning

Programming Languages: Python (Intermediate), Julia (Intermediate), R (Beginner)

Languages: Swahili(native)

Interests: Running, A Cappella, Traveling, Good music, Tea