

# Feras Altwal

Data Scientist  
Neuroscientist



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## EDUCATION

### PhD / Neuroscience

Rosalind Franklin University, N Chicago, IL  
2015 - 2020

### MS / Biology

Bradley University, Peoria, IL  
2015 - 2020

### BS / Biotechnology and Genetic Engineering

Philadelphia University, Amman, Jordan  
2015 - 2020

## CERTIFICATES

### Data Science Immersive Program

General Assembly, Washington, DC  
2020

## PROFESSIONAL SUMMARY

Accomplished data scientist and neuroscientist. Seeking to leverage my data science and machine learning experience to provide strategic data-driven decisions and insights.

## SKILLS

**Technical:** Python - Data Analysis - Web Scraping - Data Visualization - Machine Learning - Deep Learning - Image Classification - Natural Language Processing - Scikit Learn - Tensorflow - Keras - SQL - HTML/ CSS

**Additional:** Project Management - Excellent Written and Verbal Communication Skills - Problem-Solving - Bilingual (English, Arabic)

## EXPERIENCE

### Data Science Fellow

General assembly, Washington, DC / August 2020 - November 2020

- Utilized convolutional neural networks to build an Alzheimer's disease detection model from brain MRI images with high accuracy.
- Built an interactive web application where users can upload their own MRI images for Alzheimer's disease detection.
- Performed analysis of COVID-19 mortality and case rates in combination with demographic data to provide insights into communities with more risks. Data were modeled across five states and for each state individually. Unique COVID-19 risk factors were identified for each state.
- Collected thousands of subreddit posts using Reddit API, then implemented natural language processing to train a classifier on which subreddit a given post came from.

### PhD Candidate

Rosalind Franklin University, North Chicago, IL / August 2015 - June 2020

- Leveraged my quantitative and analytical skills, using tools such as Python, to facilitate and automate data processing and visualization from electrophysiological and behavioral experiments.
- Developed a novel therapeutic approach to improve Parkinson's Disease treatment, resulting in a "method of use" patent, several publications, and award-winning scientific presentations in prestigious national and international conferences.
- Coordinated interdisciplinary collaborations, securing grant application and publications.
- Mentored 11 graduate, undergraduate, and high school students for their internship projects.