

AUSTIN DIXON

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EDUCATION

Washington University in St. Louis

Aug 2021 – May 2023

M.S. in Computer Science - Research Assistantship Award Recipient

Harris-Stowe State University

Aug 2016 – May 2020

B.S. in Mathematics – Summa Cum Laude; Honors College Graduate

WORK EXPERIENCE

Grad. Research Assistant - Washington University in St. Louis

Aug 2021 – May 2023

Developed neural network models for predicting baseball at-bat outcomes using TensorFlow package within Python and public baseball data on Kaggle. Solve stochastic games using developed models to estimate average runs scored in an inning using applications of game theory and linear programming within Python. Document analysis through theory and plots with LaTeX.

Teaching & Research Assistant - Harris-Stowe State University

Aug 2017 – May 2021

Gather and clean GO3 project meteorological data by performing preliminary analysis using R. Model the presence of surface level ozone through applications of variable combination and machine learning using the scikit-learn package within Python. Document analysis within a poster format using Microsoft PowerPoint to later present at MSEIP and AGU national conferences. Assist and tutor HSSU students learning course material within the topics of mathematics and coding.

SKILLS

Mathematics – Calculus, Linear Algebra, Statistics, Probability, Modeling, Linear Programming

Programming – Python, R, Java, JavaScript

Machine Learning – Supervised/Unsupervised learning, Reinforcement learning, A.I.

Technical – Linux/Unix, GitHub, Microsoft Office, LaTeX, Docker/Containers, SQL

PROJECTS & PUBLICATIONS

Gosselin N, et al. Using Visual Ozone Damage Scores and Spectroscopy to Quantify Soybean Responses to Background Ozone. Remote Sens. 2020; 12(1):93.

<https://doi.org/10.3390/rs12010093>

Dixon A, et al. Machine Learning Predicting of Ozone Concentration based on Surface Observed Meteorological and Vegetation Conditions, AGU19 Spring Meeting