Austin Stephen

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Education

University of Wyoming

Laramie, Wyoming

BS in Computer Science, BS in Statistics, and minor in Honors College candidate

GPA 4.0/4.0

Trustee Scholar, 4-year academic full ride

Anticipated Grad. May 2023

Wyoming Research Scholar (WRSP), 26,700 in research funding over 4 years

Research Experience

University of Wyoming MALLET lab

Laramie, Wyoming

Undergraduate Research Fellow in AI, Funded by WRSP

October 2019 - Current

- Automated algorithm selection and quantified Boolean formulas
 - o Contributed an algorithm selection scenario to current ASLIB library in R.
 - o Used SLURM HPC schedular, R, and Bash scripting to run multiple CPU years of computational experiments.
- Stanford AI Index survey of automated algorithm selection contribution
 - o Ran a suite of computational experiments included in the 2021 AI index, referenced on pg. 72.

Carnegie Mellon University REU

Pittsburgh, Pennsylvania

May 2021 - July 2021

Summer Statistics Research Intern

- Selected as part of a 15-person cohort to work on research in statistics and data science.
 - o Used model-based and hierarchical clustering, principal component analysis, GAMs, KNN, random forest, gradient-boosted trees, kernel regression, and shrinkage techniques like Lasso and Ridge regression.
- Advised by Max Horowitz, the director analytics at the Atlanta Hawks, I contributed first of its kind analysis on player fatigue in the NBA using in-game tracking data and an aggregation of player performance measures.

Selection of Publications & Presentations

Modeling Player Fatigue in the NBA

Pittsburgh, Pennsylvania

August 2021

Author of paper, publication pending

Pittsburgh, Pennsylvania

Presentation titled "Modeling Player Fatigue in the NBA"

July 2021

Delivered findings on player fatigue to faculty at CMU, and industry leaders in the NBA, NFL, and NHL.

Stanford 2021 Al Index Laramie, Wyoming

Experimental Data Contributor (pg. 72)

December 2020

Carnegie Mellon CMSAC Project Showcase

Zhang, Daniel, et al. "The Al Index 2021 Annual Report." Stanford University.

index.stanford.edu/wp-content/uploads/2021/03/2021-Al-Index-Report_Master.pdf

Wyoming Research Scholar Virtual Symposium

Laramie, Wyoming

 ${\it Presentation\ titled\ "Improving\ Automated\ Machine\ Learning"}$

November 2020

Detailed successes on incorporating algorithm features into algorithm selection models.

Languages

Extensive Experience: R

Moderate Experience: Bash Shell Scripting, Python, C, and C++

Basic Experience: X86 assembly language, Java, JavaScript, PSQL, Html, and CSS

Memberships & Leadership

Alpha Kappa Psi, Upsilon Pi Epsilon: Director of Community Service 2020-2021

Google Developer Student Club: Member