APRIL WALKER

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WORK EXPERIENCE

Teaching Assistant

University of Arkansas

Aug. 2018 - Present Fayetteville, AR

Math Department

- Developing and teaching biweekly lessons in Calculus, tutoring students in various math courses, and assisting professors in proctoring and grading exams.

Data Science Intern

The Hartford

May 2019 - Aug. 2019 Hartford, CT

- Collaborated on Python based "Proof of Concept" to determine the predictive power of third party datasets.
- Developed R codebase to explore and compare performance of dimension reduction and feature selection techniques.
- Gained experience using R and Python on cloud infrastructure to run models while managing resources.

Big Data Engineer Intern

L3-Comcept

Jun. 2017 - Aug. 2017 Rockwall, TX

- Developed a new Apache Maven library using Java and SQLite
- Used Akka to integrate a Scala Rest API into an existing Java project
- Gained experience using version-control repositories (git-based) in a professional setting.

RESEARCH EXPERIENCE

University of Arkansas

Fayetteville, AR

Oct. 2018 - Aug. 2019

Dr. Cheng's Climate Science Lab

- Utilizing various statistical inference methods with a focus on the Bayesian approach to predict extreme temperature events with nonstationary models in R.

Aug. 2016 - Dec. 2018

Dr. Lehmer's Astrophysics Lab

- Participated in various collaborative and personal projects related to x-ray binary research utilizing Python, Bash, Tcl, and R in conjunction with astronomical software (CIAO and XSPEC).
- Gained experience pre-processing, binning, and visualizing noisy datasets using standard Python libraries.

EDUCATION

University of Arkansas

Fayetteville, AR

Masters of Science

Expected May 2020

- Field: Statistics and Analytics
- Research Area: Extreme Value Analysis
- GPA: 3.76
- Relevant Coursework: Machine Learning, Natural Language Processing, Database Management, Computational Statistics

Bachelor of Science

May 2018

- Major: Physics
- Concentration: Computational Physics
- Minor: Mathematics
- Research Area: X-ray Binary Evolution

TECHNICAL SKILLS

Programming Languages

R, Python
SQL, MATLAB, Java, C/C++
Scala, Rust

Big Data/ ML Technologies

Hadoop/HDFS, h2o.ai
PySpark, TensorFlow, sklearn

Other Technical Skills

GNU/Linux
Excel, Jupyter
Bash/Shell, git, Vim
AWS

REFERENCES

Dr. Linyin Cheng
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Dr. Bret Lehmer
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Russell Danna - L3 Sr. Manager
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