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.
- Utilized various machine learning algorithms in an industry setting including: regression models, tree-based models, boosted models, and clustering.

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
- GPA: 3.824
- Relevant Coursework: Machine Learning, Natural Language Processing, Computational Statistics

Bachelor of Science

📅 May 2018

- Major: Physics
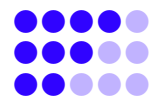- Concentration: Computational Physics
- Minor: Mathematics

TECHNICAL SKILLS

Programming Languages

R, Python   ●●●●○
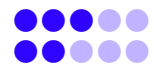**SQL, MATLAB, Java, C/C++**   ●●●○○
Scala   ●●○○○

Big Data/ ML Technologies

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

Other Technical Skills

GNU/Linux   ●●●●●
Excel/VBA, Jupyter   ●●●●○
Bash/Shell, git, Vim   ●●●○○
AWS   ●●○○○
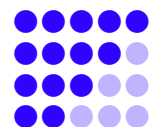
REFERENCES

Heather Grebe - Data Scientist
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📞 1-865-207-0445

Dr. Linyin Cheng
✉ lc032@uark.edu
📞 479-575-3469

Dr. Bret Lehmer
✉ lehmer@uark.edu
📞 479-575-2506

Russell Danna - L3 Sr. Manager
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