

# BOYER SIMPKINS

Norman, Oklahoma · boyer.simpkins@ou.edu · 405-747-0822

## EDUCATION

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### Oklahoma State University

B.S. Applied Mathematics & Economics *GPA: 3.55*

Stillwater, Oklahoma

August 2016 - May 2020

### University of Oklahoma Gallogly College of Engineering

M.S. Data Science and Analytics *GPA: 3.35*

Norman, Oklahoma

August 2020 - December 2022

## EXPERIENCE

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### University of Oklahoma Health Sciences Center

*Research Assistant*

Oklahoma City, Oklahoma

January 2022 - Present

- Created databases to track publications by each faculty member.
- Formed relationships with professional researchers.
- Improved databases that store grant data key to the department's research goals.
- Learned the inner workings of an academic health sciences department, and how research is typically conducted.

### 180 Medical

*Analytics and Metrics Intern*

Oklahoma City, Oklahoma

June 2020 - December 2021

- Automated data processes and report generation using Excel and Visual Basic.
- Developed Excel reports and metrics to gauge the effectiveness of hiring, recruiting, and talent retention processes.
- Led Excel courses for managers and peers to learn intermediate to advanced level Excel skills.
- Successfully completed all duties via remote access.
- Supported all members of the HR department with their analytical needs.

### Oklahoma State University

*Teaching Assistant*

Stillwater, Oklahoma

August 2019 - May 2020

- Assisted students with homework and their study habits in out of class learning sessions.
- Led a College Algebra lecture of 20+ students.
- Provided an outlet for students to express concerns about the course and their university experience overall.
- Supported the professor with the management and structure of the course.

## SKILLS & COURSEWORK

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Data Science: Python, R, SQL, Tableau, Excel

Economics: Business Acumen, Intermediate Macro/Micro Economics, Game Theory

Engineering: Intelligent Data Analytics, Algorithm Analysis, Computing Structures, Energy Analytics

Mathematics: Calculus I-IV, Discrete Mathematics, Mathematical Modeling, Technical Writing

Personal: Cohesive, Diligent, Patient, Passionate, Supportive

## PROJECTS

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### Using Machine Learning to Predict the All-NBA Team *Python, Excel*

For my undergraduate thesis, I built a web scraping algorithm and machine learning classifier which analyzed and classified past, present, and future members of the All-NBA team.

### ARIMA Forecasting Fossil Fuel vs Renewable Energy Generation in the United States *R, Excel*

Dual ARIMA models which I built for my graduate Energy Analytics course. The models predicted future energy generation in the United States from 2020 to 2040.

## AWARDS

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### Oklahoma State Honors College

Member of the Honors college at Oklahoma State.

### President's Honor Roll

Achieved a 4.0 GPA for multiple semesters at Oklahoma State.

### Dean's Honor Roll

Achieved a 3.5 GPA for multiple semesters at Oklahoma State.