

# Cameron Witton-Grove

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## EXPERIENCE

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### Cleveland Guardians, Senior Data Scientist

Feb. 2023 – Present

*Cleveland, OH, United States*

- I design and deploy statistical models related to baseball performance and projection
- Communicate insights to the wider baseball operations department
- These models have impact in many areas of the game from player development to in-game strategy

### Angstrom Sports, Senior Data Scientist

Feb. 2022 – May. 2022

*London, UK*

- Worked with MLB data to improve baseball game forecasting models with the aim of accurately predicting the likelihood of different outcomes.
- Refined models for assigning player skill ratings, measuring changes to the league environment, and simulating teams' in-game decisions
- Balanced considerations of model accuracy and model runtime in situations where results are extremely time-sensitive

### Department for Education, Data Science Lab

Jan. 2020 – Apr. 2020

*London, UK*

- Developed projection models in R for pupil attainment, investigating the effects of characteristics and disadvantage on pupils' academic performance between ages 11-16

### Northumbrian Water

May 2019 – July 2019

*Washington, UK*

- Produced a machine learning anomaly detection system for wastewater flow in sewage treatment works, outperforming existing labour intensive methods
- Used a wide variety of time series analysis methods including LSTM neural networks and SARIMA.

## EDUCATION

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### Durham University

Durham, UK

*Doctor of Philosophy, Computational Astrophysics*

*Sep. 2018 – Jan. 2023*

I worked on the Dark Energy Spectroscopic Instrument (DESI) project, running and analysing high resolution gravitational simulations containing billions of particles to learn more about the properties of our universe

### University of Cambridge

Cambridge, UK

*Master of Science, Physics, First Class Honours, Top 5% of the Cohort*

*Sep. 2014 – June 2018*

## TECHNICAL SKILLS

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**Languages:** R, SQL, Bash

**Developer Tools:** Git, RStudio, RShiny, VSCode

**Expertise:** Machine Learning, High Performance Computing, Data Visualisation

## OTHER SKILLS

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Experienced at public speaking. I have given multiple conference and seminar talks to present my research to a large audience

Capable of working remotely in large international collaborations such as the Dark Energy Spectroscopic Instrument project

Proficient in working with baseball statistics and pushing the boundaries of public sabermetric analysis. A website presenting results from my models received hundreds to thousands of visits per day and I have been nominated for a [SABR contemporary analysis award](#). I won the inaugural [SMT Data Challenge](#).