

JAMES SHINNER

Data Science Researcher

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Geneva, CH | London, UK



EXPERIENCE

Doctoral Researcher

CERN

- 01/2020 - Ongoing | Geneva, CH
- Long term attachment at CERN to conduct PhD research.
 - Collaborating with a large international team.
 - Involved in experimental operations of the ATLAS trigger system.
 - Worked to redesign the trigger configuration database, achieving speed-up of 100-1000x in editing and loading configurations.

Graduate Teaching Assistant

Royal Holloway, University of London

- 09/2018 - Ongoing | London, UK
- Leading tutorial classes on linear algebra, probability, and statistics.
 - Marking for courses in mathematics and general relativity.

Research Intern

Durham University

- 07/2017 - 09/2017 | Durham, UK
- Summer internship using physics simulations to model the behaviour of glyphosate, a commonly used herbicide.

Mathematics Analyst Intern

NMi Metrology & Gaming

- 07/2016 - 08/2016 | Bangor, UK
- Applied probability and statistics to test the expected return of physical/online slot machines for regulation and licensing purposes.

EDUCATION

PhD, Elementary Particle Physics

Royal Holloway, University of London

- 09/2018 - Ongoing
- Investigating a novel technique to use the top quark to measure the asymmetry between matter and antimatter.

MSci, Natural Sciences (Maths & Physics)

Durham University

- 09/2014 - 06/2018
- Awarded 1st class honours.
 - Final dissertation on 'Machine Learning for Higgs Boson Measurement'.

SUMMARY

Undertaking a PhD in Particle Physics on the ATLAS Experiment of the Large Hadron Collider at CERN has given me extensive experience working on some of the world's largest datasets.

I look to apply technical skills in statistics, Python, and SQL to solve interesting machine learning and big data problems.

SKILLS

Programming

Python	SQL	Pandas	Oracle
Scikit-learn	TensorFlow	Git	
CI/CD	Linux		

Research

Statistics	Machine Learning
Academic Writing	Tool / Technology

LANGUAGES

English	Native	●●●●●
German	Intermediate (B1)	●●●●●
French	Beginner (A1)	●●●●●