

JAMES SHINNER

Data Science Researcher

📞 +447795325163

✉️ jamesdshinner.github.io

@ jamesdshinner@gmail.com

📍 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)

