

# Dr. Guillermo Hamity

PhD | Senior Data Scientist | Machine Learning Engineer

## Contact

ML Lectures  
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Lloyds Banking Group  
Edinburgh, UK

## Languages

English – Native  
Spanish – Native

## Professional Skills

Python/C++

Python TensorFlow Keras  
Scipy Pandas Numpy  
Pydantic pytest pip CMake  
Unit Tests

## Machine Learning

MLOps Vertex AI  
Explainable ML Agentic AI ETL  
Feature Engineering TF-Data  
Supervised/Unsupervised Learning  
Ensembles  
Deep Learning (DNNs/BNNs/RNNs)  
Probabilistic Models  
TF-Probability

## Technology

GCP Vertex AI Pipelines  
CI/CD (GitHub) Kubeflow  
Docker Linux Git AWS

## Statistics

Hypothesis testing A/B tests  
Likelihood models Simulation  
Stochastic models

## Download My CV

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## About me

Passionate and results-driven **Senior Data Scientist** specialising in end-to-end AI/ML delivery, cloud-native development, and enterprise MLOps. Experienced in leading use-case teams, managing stakeholders, and translating flexible requirements into scalable, explainable, and compliant ML solutions. Strong background in statistical modelling and scientific research (PhD, CERN) with expert knowledge in ML and AI (Lecturing at UoE) and a focus on rigorous methodology and production-quality engineering.

## WORK EXPERIENCE

From Jun. 2024



Senior Data Scientist

Lloyds Banking Group, Edinburgh

Lead a cross-functional use-case team delivering **end-to-end ML and MLOps pipelines** using Vertex AI and cloud-native tooling.

- Designed and deployed a fully automated **MLOps pipeline** for actuarial risk models, enabling reproducible, explainable, and governance-aligned ML.
- Translate flexible and evolving **stakeholder requirements** into actionable technical plans and communicated progress and results in a transparent way.
- Built and benchmarked modern ML models, integrating **innovative methodologies** that improved accuracy and streamlined stakeholder processes.
- Manage **delivery timelines**, coordinate scrum tasks, delegate work, and review GitHub pull requests to maintain high engineering standards.
- Earned peer recognition through awards such as *Innovator of the Year* (2024) and *TechWizz* (2025), reflecting leadership in ML engineering and innovation.

2023–May 2024

Quantitative Researcher

PLAYMETECH, London

- Led R&D of innovative neural network architectures, including **Recursive, Bayesian, and MixtureDensity Deep Networks**, and developed simulation techniques to model intrinsic risk.
- Prototyped, tested, and deployed** ML models for predicting match and market dynamics, supported by outcome-oriented trading strategies and a robust **benchmarking** suite.
- Managed ETL workflows across **SQL and NoSQL** sources and delivered **production-ready code** for real-time predictive analysis, effectively communicating results to stakeholders.

2019–May 2023



Postdoctoral Research Associate The University of Edinburgh

Led the development and deployment of particle tracking and identification AI algorithms for the ATLAS collaboration.

- Built particle-ID algorithms, including **neural-network-based** methods, and developed widely used C++/Python analysis tools.
- Took a **leadership role** in analysis efforts, contributing to publications, technical reports, and collaborative research coordination.
- Lectured** MSc machine learning, covering practical data preparation, modelling, and neural network architectures.

## EDUCATION

2015–2019



PhD in High Energy Physics  
ATLAS Experiment, CERN

The University of Sheffield

*Thesis:* Probing the Beyond Standard Model Higgs Sector using ATLAS

2013–2015

MSc in Physics

Uni of Witwatersrand (ZAR)