

Olympia Darts, PhD

Researcher & Data Scientist

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Experienced data scientist with a PhD in particle physics. I transitioned into an AdTech role after my PhD, where I lead the development of an end-to-end machine learning framework to predict the performance of online campaigns. Excited to pivot into the healthcare industry, leveraging analytic thinking, data visualization, and cross-functional coordination to contribute to meaningful advancements in healthcare initiatives. Passionate about utilizing data-driven solutions to tackle challenging problems and improve patient outcomes.

WORK EXPERIENCE

2021 – PRESENT

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Lead Data Scientist

- Predicted future revenues for advertising campaigns via **neural network-based time series forecasting**.
- Developed a **multi-objective constrained optimization**.

2020 – 2021

Dreamin

Data Scientist

- Optimized budget allocation, audience and time targeting for online campaigns, using **multi-armed bandit** and **k-means clustering**.

2016 – 2019

CERN

Doctoral research - PhD Thesis

- Investigated of the electroweak production of $Z\gamma$ -pairs, which hints at **new physics** beyond the Standard Model.
- Developed a **boosted decision tree algorithm** to distinguish signal from background events
- Performed **Bayesian unfolding** to correct for detector effects.

EDUCATION

2016 – 2019

Ph.D Experimental Particle Physics

Université Grenoble Alpes, France.

2014 – 2016

M.Sc. Computational Physics

Aristotle University of Thessaloniki, Greece.

2009 – 2014

B.Sc Physics

Aristotle University of Thessaloniki, Greece.

TECHNICAL SKILLS

Programming:

Python SQL Git LaTeX

Data Analysis:

Pandas NumPy Scikit-Learn

TensorFlow Keras

Visualization:

Matplotlib Seaborn Superset

Algorithms & other skills:

Machine Learning Deep Learning

Time series Anomaly Detection

Data Visualisation Mathematics

Statistics Physics Healthcare analysis

Computer Vision

Spoken languages:

Greek (native), English (C2), French (B2), German (A2)

COURSES

- Managing Machine Learning Projects with Google Cloud, **Google Cloud**.
- Computer Vision, **Kaggle**.
- TensorFlow 2 and Keras Deep Learning Bootcamp, **Udemy**.

PUBLICATIONS & CHALLENGES

- Google's **Foobar** challenge.
- **Papers** as single author or as part of the ATLAS collaboration.
- PhD talks in **Moscow** and **Sheffield**.
- **Poster** on electron identification at CERN.