

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. My core strengths are analytic thinking, data visualization and coordinating product development across technical and business-oriented teams.

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

Spoken languages:

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

COURSES

- TensorFlow 2 and Keras Deep Learning Bootcamp, **Udemy**.
- TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning, **Coursera**.
- Machine Learning with Python, **Coursera**.

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.