

Olympia Darts, PhD

Researcher & Data scientist

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WORK EXPERIENCE

NOV 2021 – CURRENT

Tempr.

Lead Data Scientist

- Built a time series forecasting algorithm using neural networks for revenue predictions which achieved an average accuracy of 90%
- Developed constrained multi-objective optimisation algorithm for advertising campaigns which improved their revenue by 10%
- Established technical workshops within the team for skill-sharing and team's improvement
- Introduced a new work style in the team which improved team's efficiency and motivation
- Collaborating closely with tech and product teams in order to provide a smooth delivery of the product

JUNE 2020 – OCT 2021

Dreamin

Data Scientist

- Created a multi-armed bandit algorithm for budget allocation on Facebook and Google advertising campaigns
- Deployed a K-means clustering algorithm for audience and time targeting of the advertising campaigns

SEPT 2016 – OCT 2019

CERN

Ph.D. candidate

[Thesis record](#)

- Implemented a likelihood method for identifying electrons from rare particle decays which increased the accuracy from 90 to 95%
- Developed a decision tree algorithm for distinguishing signal from background (noise) events
- Performed an unfolding Bayesian method to obtain the probability density function of the signal before smearing effects from the detector

EDUCATION

SEPT 2016 – OCT 2019

Ph.D Experimental Particle Physics

Université Grenoble Alpes, France.

SEPT 2014 – SEPT 2016

M.Sc. Computational Physics

Aristotle University of Thessaloniki, Greece.

SEPT 2008 – MARCH 2014

B.Sc Physics

Aristotle University of Thessaloniki, Greece.

TECHNICAL SKILLS

Programming languages:

Python (NumPy, Pandas, Scikit-Learn, Matplotlib, Seaborn, TensorFlow, Keras) [Git](#) [SQL](#) [Docker](#)
[LaTeX](#) [Matlab](#)

General skills:

[Machine Learning](#) [Deep Learning](#) [Time series](#)

[Anomaly Detection](#) [Data Visualisation](#) [Mathematics](#)

[Statistics](#)

Spoken languages:

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

CHALLENGES

Google's coding challenge: [Foobar](#).

COURSES & CONFERENCES

Courses

- TensorFlow 2 and Keras Deep Learning Bootcamp, [Udemy](#).
- TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning, [Coursera](#).
- Machine Learning with Python, [Coursera](#).

Conferences

- 3rd IML Machine Learning Workshop, CERN (2019).
- School of Statistics, Machine Learning, France (2018).
- Monte Carlo School, Germany (2017).

PUBLICATIONS

- [Papers](#): as single author and main analysis team member, with the ATLAS collaboration.
- Talks on behalf of the ATLAS collaboration, in [Moscow](#) and [Sheffield](#).
- [Poster](#): on behalf of the ATLAS collaboration at CERN.