Dr. Olympia Dartsi
Curriculum Vitae

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WORK EXPERIENCE

NOV 2020 – CURRENT

Tempr.
Head of Research and Development

- I built and maintain time series algorithms for forecasting future returns on ad spend.
- I implemented ML algorithms for budget and bid optimisations of advertising campaigns.
- I proposed probabilistic value attribution of key metrics of an advertising campaign followed by the mobile app tracking transparency policy.

JUN 2020 – OCT 2020

Dreamin
Data Scientist

- As the 1st data scientist, I built the data science flow and models from scratch.
- I developed a multi-armed bandit algorithm (UCB) for budget allocation on Facebook and Google advertising campaigns.
- I deployed a K-means clustering algorithm for audience and time targeting of the advertising campaigns.

SEPT 2016 – OCT 2019

CERN
Ph.D. candidate

- I developed a multivariate analysis (MVA) using a Boosted Decision Tree (BDT) algorithm for distinguishing signal events from background events.
- I implemented a new data-driven likelihood method for electron identification of the detector's signal based on several properties of the electron.
- I performed an unfolding Bayesian method to obtain the probability density function (pdf) of the signal before smearing effects from the detector.
  Thesis record.

EDUCATION

2016 – 2019	**Doctor of Philosophy**	Experimental Particle Physics *Université Grenoble Alpes, France.*
2014 – 2016	**Master of Science**	Computational Physics *Aristotle University of Thessaloniki, Greece.*
2008 – 2014	**Bachelor of Physics**	Department of Physics *Aristotle University of Thessaloniki, Greece.*

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.

TECHNICAL SKILLS

Programming languages and frameworks:
Python (NumPy, Pandas, Scikit-Learn, TensorFlow, Matplotlib, Seaborn), C++

Others:
Git, SQL, Superset, Docker, LaTeX, Mathematica, Matlab

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

System languages:
Braille

CHALLENGES

Google's coding challenge: Foobar.

COURSES & CONFERENCES

Courses

- TensorFlow2 and Keras Deep Learning Bootcamp, Udemy.
- TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning, Coursera .
- Machine Learning with Python, Coursera.
- Data Visualisation with Python, Coursera.
- Deep Learning Prerequisites: The Numpy Stack in Python, Udemy.
- Beyond Jupyter Notebooks, Udemy.

Conferences

- 3rd IML Machine Learning Workshop, CERN (2019).
- School of Statistics, Machine Learning, France (2018).
- Monte Carlo School, Germany (2017).
- 1st Electroweak symmetry breaking school, Italy (2018).
- Moscow International School of Physics, Russia (2019).

SOFT SKILLS

Goal oriented
I believe in action over long-winded discussions. I listen to everyone's viewpoints and use my judgment to immediately act based on consensus to achieve goals quickly and efficiently.

Time and task management skills
As Head of an R&D department, I believe that effective time planning and task attribution, are crucial for the prospect and potential of the team's success and development.

Accountable
I believe that taking ownership of my mistakes is vital to my professional development and plays a key role in maintaining transparency in the team.