

Aristides Zenonos, Ph.D.

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My name is Aristides Zenonos, and I am a Ph.D. educated Data Scientist with six years of experience in Python and time-series analysis. Moreover, I have worked on supervised and unsupervised machine learning problems. I am skilled in R/Shiny, scientific coding and research with a strong computational and scientific background from top tier universities.

Work Experience:

Jan. 2021 – Present **Data scientist, Ebiquity, London, UK**

- Multivariate time-series econometric modelling (Mix Marketing Modelling).
- Extract, Transform, Load (ETL) data using Python, R (tidyverse), SQL.
- Deployed model results on dashboards using Shiny Web Apps.
- Transformed unobservable constructs to insight-driven sales (Brand Equity).
- Maximised ROI using constrained optimisation techniques.

Sep. 2020 – Dec. 2020 **Machine Learning Researcher, University of Cyprus**

- Developed and validated clustering algorithms to improve 5G network operation in hot spot areas using Geopandas and Sklearn.

Sep. 2019 – Jan. 2020 **Data Scientist, Freelancer**

- Employed machine learning algorithms and techniques for time-series forecasting (e.g. Pandas, Sklearn, Keras, ARIMA).
- Involved in all the stages of data analysis (Data collection, Exploratory Data Analysis, Feature Selection/Extraction, Machine Learning).

Jul. 2019 – Aug. 2019 **Geophysicist at Cyprus Hydrocarbons Company, Cyprus**

- De-noised seismic images by employing signal processing techniques (FFT, convolution) for multiple prediction and subtraction.
- Broaden seismic processing techniques, worked on industry's leading software (Reveal, Rokdoc) and introduced to HSE, Up-stream/Mid-stream and LNG markets.

Mar. 2017 – Jul. 2017 **Research Geophysicist at TOTAL E&P, Aberdeen, UK**

- Utilised Python and MATLAB to compute 4D Time-shifts vs. Offset and offset-dependent dilation factors.

Education:

Sep. 2015 – Sep. 2020 **University of Aberdeen**
Doctor of Philosophy in Geophysics

- Research Topic: Seismic imaging of south-east Asia – Australia collision zone.
- Confident in Python (e.g. Numpy, Scipy, Pandas, Matplotlib, Sklearn, Keras, SQLAlchemy), scientific coding, UNIX/LINUX operating systems and iPython/Jupyter.
- Applied DBSCAN clustering technique to improve S/N ratio in scientific articles.
- Computed nonlinear and non-unique geophysics problems with the aid of optimisation techniques.
- Developed a scan statistics approach to picking seismic wave arrival times using signal processing techniques, Monte Carlo method and Agglomerative clustering.

- Presented research in international conferences and universities.
- Broadened cluster computing programming abilities using MPI and SGE on HPC.

Sep. 2014 – Sep. 2015 **University College London**
MSc Computer Science Achieved: 68%

- Server-side web development (Python, Git, AWS) for MSc Thesis on qualitative & quantitative comparison of 3D tomographic models using Django Web Framework.
- Improved android skills by developing an app called “Sizing App” for the UK National Sizing Survey.
- Strengthened programming (JAVA, PHP, SQL, HTML/CSS) and team-work skills by taking related modules and working in groups.
- Broadened Computing knowledge by taking Systems Infrastructure, Architecture & Hardware, Algorithmics and Software Engineering modules.

Sep. 2011 – Jun. 2014 **The University of Manchester**
BSc (Hons), Physics

- Achieved First Class grade in the final year individual project on Biomechanics of the heart (6000 words) showing excellent research skills.
- Trained on data analysis and investigated various experiments while working in lab sessions scoring First Class mark in all the 3 years.
- Obtained 98% in Introduction to Programming in C module and 65% in C++ module.

Positions of Responsibility:

Jul. 2009 – Jul. 2011 **Second lieutenant, Military Service, Republic of Cyprus**

- Developed leadership, supervisory skills, independency, confidence and self-discipline by training a corporal’s guard during military exercises.

Activities:

Jun. 2013 – Jun. 2013 **Information week on Energy Matters, Nicosia, Cyprus**

- Broaden energy (gas, renewables) knowledge by participating to the information week of the Energy Service of Ministry of Energy, Republic of Cyprus.

Sep. 2012 – Jul. 2013 **Manchester Leadership Programme, Manchester, UK**

- Awarded silver medal showing a contribution to the community more than 40 hours of volunteering.

Skills and Interests:

Languages:

- Greek: Native.
- English: Fluent.
- French: Basic.

Interests and Sports:

- Detected Quora insincere questions using NLP with Keras in Kaggle competition.
- Read about international politics and commodities of the Eastern Mediterranean.
- Enjoy exercising regularly by going to the Gym.