

Aristides Zenonos, Ph.D.

My name is Aristides (Aris) Zenonos, and I am a Ph.D. educated Data Scientist with experience in using machine learning to improve business processes. Using my strong technical background, I can exploit data to produce meaningful insights to enable informed decisions. Moreover, I am an experienced programmer and I have worked on supervised and unsupervised machine learning problems. I am skilled in Python, R, Git, scientific coding and research with a strong computational and scientific background from top tier universities.

Work Experience:

Feb. 2022 – Present

Senior Data scientist, PA Consulting, London, UK

- Led the delivery and development of data science solutions using an agile methodology.
- Utilised Python and R to develop a data-driven solution to triage Non-Value-Added work for a water company leading to a reduction in operational costs by half a million per year.
- Developed and tested Linear Programming Optimisation and Reinforcement Learning algorithms to reduce delays in hot-spot areas of the national rail network.
- Developed autonomous cyber defensive agents using Multi-Agent Reinforcement Learning to protect network integrity and guard against cyber-attacks.
- Enhanced cloud computing abilities by utilising Google Cloud Platform (GCP), enabling efficient data storage and analysis.

Jan. 2021 – Feb. 2022

Data scientist, Ebiquity, London, UK

- Led the implementation of multivariate time-series econometric 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).

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

Aristides Zenonos

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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.
- 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:

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.