

## EDUCATION

- 2020 – Present [Cambridge University](#); PhD in Data-centric engineering funded by [EPSRC](#).  
*Supervised by Professor [Mark Girolami](#).*
- 2019 – 2020 Cambridge University; MRes Future Infrastructure & Built Environment funded by EPSRC. **Distinction** (ranked **1st** in class).  
*Supervised by Professor [Mark Girolami](#).*
- Courses: Probabilistic Machine Learning, Statistical Signal Analysis
- 2015 – 2018 [Warwick University](#); BSc Data Science. **1st class honours**.
- Courses: Machine Learning (73%), Mathematical Statistics A & B (79%), Linear Statistical Modelling (77%), Topics in Data Science (82%), Programming for Data Science (81%), Artificial Intelligence (72%).
- 2013 - 2015 [Anatolia College](#); International Baccalaureate. **39/45** (93<sup>rd</sup> percentile).
- Merit-based scholarship for academic excellence.
  - Physics (7/7), Mathematics (6/7), Extended essay on statistical stock price forecasting (35/36).

## RESEARCH EXPERIENCE

- May 2020 - Aug. 2020 Cambridge University, [Arup](#) - **Stochastic** modelling of urban travel demand  
*Dissertation supervised by Professor [Mark Girolami](#).*
- Introduced a novel application of stochastic spatial interaction modelling to transportation.
  - Approximated doubly intractable posterior using pseudo-marginal MCMC schemes with annealed importance sampling.
- Oct. 2019 - Jan. 2020 Cambridge University, [Highways England](#) - **Bayesian** treatment of hydrological models for road rainfall run-off prediction.  
*Mini-project supervised by Professor [Mark Girolami](#).*
- Developed physics-informed machine learning (hybrid) modelling framework for hydrological applications using Python.
  - Approximated posterior using Sequential Monte Carlo and computed Bayes factors to ensure model identifiability.
- Jan. - April 2018 Warwick University - **Bayesian** online change-point detection;  
*BSc Thesis supervised by [Dr. Theo Damoulas](#). Mark: 79%.*
- Developed online framework for time series segmentation and forecasting in non-stationary spatio-temporal point processes using Python.
  - Implemented conjugate models to obtain posterior efficiently and computed Maximum A Posteriori estimates of time series segmentation.
- June - Aug. 2017 Warwick University – Large binary sequences for RNA editing;  
*Individual project supervised by [Dr. Anastasia Papavasiliou](#).*
- Research award (1000£) by the Department of Statistics for outstanding performance in Mathematical Statistics to develop methods of summarising large binary sequences.
  - Utilised theory of rough paths to compute signatures of the paths generated from simulated binary sequences using R and Python.

## TECHNICAL SKILLS

Programming	Python, R, Java, C
Databases	MySQL, PostGIS/PostgreSQL
Cloud	Amazon Web Services (S3, EC2), Google Cloud Platform
GIS	QGIS, Google Earth Engine API, SentinelHub API, GDAL
Miscellaneous	Git, Data Version Control, IPython, L <sup>A</sup> T <sub>E</sub> X, R Shiny, Docker
Libraries	TensorFlow, Keras, PyMC3, OpenCV, sklearn, ggplot2, Shapely, rasterio
Languages	Greek (native), English (fluent)

## WORK EXPERIENCE

Sep. 2018 - July 2019 <i>London, UK</i>	<a href="#">Cervest Ltd</a> – Statistical Scientist; <ul style="list-style-type: none"><li>• Research projects I led:<ul style="list-style-type: none"><li>– Change-point detection on complex and climate-volatile data generating processes.</li><li>– Sequential multinomial classification algorithms for assessing environmental resilience.</li><li>– <b>Bayesian</b> non-parametric models for spatio-temporal sensor fusion and yield forecasting with applications to sustainability.</li></ul></li><li>• Designed and developed data acquisition infrastructures using Python for use by the Data Science team.</li><li>• Self-taught Geographical Information Systems (GIS) and trained new recruits on QGIS.</li><li>• Engaged with clients and investors and communicated statistical modelling frameworks to them.</li></ul>
June - Aug. 2018 <i>Athens, Greece</i>	<a href="#">Eurobank Private Bank Luxembourg</a> – Investment Advisory Intern; <ul style="list-style-type: none"><li>• Designed, developed and deployed a web application for portfolio management using R Shiny.</li><li>• Derived optimal portfolios using efficient frontier. theory with diversification and volatility constraints.</li></ul>

## LEADERSHIP ACTIVITIES

Dec. 2019 - March 2020	Cambridge University Judge Business School - Team communicator. <i>Group project for Entrepreneurship course.</i> <ul style="list-style-type: none"><li>• Developing business case for an air pollution prediction platform and pitching it to potential investors.</li></ul>
Oct. 2017 - July 2018	Warwick University Department of Statistics - Mentor in Statistics. <ul style="list-style-type: none"><li>• Mentored first-year students and provided support for their academic studies and career planning.</li></ul>
Oct. 2015 - July 2018	Warwick University Student-Staff Liaison Committee - Student representative. <ul style="list-style-type: none"><li>• Liaised with students &amp; staff to improve teaching quality and student support by collecting and discussing feedback in monthly meetings.</li><li>• Assisted in the design of the course structure of the fourth-year of the Data Science degree.</li></ul>

## HOBBIES

Travelling, puzzle solving, basketball, sailing, book reading.

*References are available upon request.*