

Michalis Mylonas

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GitHub: github.com/Mylonas

GitLab:

Location: Cardiff, Wales, UK

PROFILE

- A competent and highly motivated data scientist who has good statistical skills, is able to perform under pressure, tackle complex problems and make informed decisions.
- A quick learner and logical thinker who can work effectively both individually and as a member of a team, capable of delivering results within set deadlines.
- Strong communication and interpersonal skills that support quick adaption to different professional or academic environment.

RELEVANT EXPERIENCE

01/2021-Present Office for National Statistics, Newport, United Kingdom

Methods, Data & Research Analyst

- Responsible for the development and hand over of pipelines either as the team lead or a member of the team in R
- Code refactoring with high standards of adaptability, readability and efficiency
- Version Control with Git both in offline systems (BASH) and in Cloud Platforms(GCP)
- Responsible for training colleagues on how to use new pipelines in different environments while providing guides and training materials in PowerPoint/SharePoint
- Experience of working in business transformation programmes by automating processes and transferring them in Google Cloud Platform
- Use of JIRA for and GitHub for issue tracking and development
- Unit Testing for test driven development

03/2021-07/2021 Symptoms Pipeline

Producing a monthly symptoms report

- Learned how to do version control with Git offline in BASH
- Refactored code with the aim of adaptability, readability and efficiency
- Incorporated functions, packages, introduced configuration files and parameters to simplify the execution process
- Implemented statistical tests such as Pearson's chi squared to calculate the significance of the results

05/2021-Present INLA Pipeline (Integrated Nested Laplace Approximation)

Carried out a plan to move the pipeline to Google Cloud Platform

- Understood the importance of resource management as this was done alongside the symptoms pipeline
- Implemented extensive testing with unit testing (using testthat library in R)
- Improved knowledge of R, GitHub and GCP (Google Cloud Platform)
- Learned about packages for testing code and how to improve testing coverage

09/2019-09/2020 Cardiff University, United Kingdom

MSc Bioinformatics (Merit)

Dissertation: Neoantigen identification from bulk RNA-seq. Writing Linux BASH scripts for RNA-seq processing, R and Python scripts for workflow analysis

10/2019-12/2019 Client Project (Part of a module)

Investigating the relationship between risk-taking and impulsive behaviour

- Data Wrangling and cleansing in Excel and R
- Gain extensive experience with ggplot2, dplyr and shiny libraries
- Statistical analysis (t-test, Wilcoxon test, linear regression)
- Ad hoc analysis to extract specific results
- Project management which included weekly slide packs to demonstrate key progress.

- Improved Scientific Writing skills

02/2020-04/2020 Case study, Client Project

Inference of telomere length in breast cancer by whole genome paired-end sequencing

- Enhanced Unix, R and Python scripting skills
- Data quality management and cleaning
- Data pipeline automation for calculating R value to improve efficiency
- Assessed telomere lengths of samples using bioinformatics tools such as TelSeq, TelomereCat, Computel and TelomereHunter
- Implemented supervised learning methods to improve telomere length prediction accuracy.
- Utilized the scikit-learn library in Python.
- Gain extensive experience with NumPy and Pandas libraries.

06/2020-09/2020 Dissertation: RNA-Seq in BASH (RedHat IBM) – Linux

- Gain extensive experience with NumPy and Pandas libraries.
- Machine learning in Python for improving prediction accuracy
- Applied linear regression and cross-validation algorithms
- Data Wrangling and Data Analysis using third-party tools

Skills:

- Gain considerable experience with BASH, R and Python
- Worked with NGS pipelines
- Applied linear modelling and clustering
- Developed a software tool in Python to assist the design of prostate cancer treatment
- Differential Analysis using R
- Version Control with GitHub

09/2016-06/2019 Swansea University, United Kingdom

BSc Computer Science (First Class)

Dissertation: Web Application Development in Visual Studio

10/2017-12/2017 Client Project (Part of a module)

ER, Normalization, SQL, PHP Coursework

- Writing and testing SQL queries.
- Developed an SQL server with MySQL

Dissertation: The project was based on the allocation process of lab demonstrators. This project simplifies the demonstrator selection by the implementation of a Web application in Microsoft Visual Studio.

- Detailed Processes with used case scenarios
- Meticulous attention on automating processes
- Integrated Development Environment: Microsoft Visual Studio
- Front-End design with HTML and CSS
- Back-End design SQL and C#
- Extensive testing to ensure compatibility across a wide variety of platforms

Skills:

- Developed an SQL server from scratch in MySQL:
- Gain experience with mobile applications in Android studio and web application in Visual studio as well as software testing in Java.
- Experienced all stages of the software development lifecycle by undertaking projects with focus on customer requirements to projects targeting extensive testing.
- Gain an in depth understanding of client specific requirements and how these should be incorporate into the development lifecycle.

07/2014-07/2016 Cyprus National Guard, Nicosia, Cyprus

Lance Corporal, Commander of a military outpost

- Day-to-day management of a Military Outpost
- HRM (Human Resource Management with Excel)
- Responsible for the effective training and monitoring of the Battalion.
- Developed strong communication skills, both verbally and written
- Through many duties and responsibilities became a disciplined and mature person capable of meeting tasks and daily challenges with resilience producing always excellent results
- Advanced teamwork and collaboration skills by working closely with superiors and fellow soldiers.

09-2011-06/2014 **Acropolis Lyceum**

International Baccalaureate – Apolytirion (*18.33 out of 20*)

The main subjects were Mathematics, Physics, Chemistry, and Computer Science.

ADDITIONAL SKILLS

CERTIFICATES

- Microsoft Office (Word, Excel, PowerPoint, Access, Outlook)
- Global AML for United Kingdom
- LexisNexis Foundation
- LexisNexis Advanced

LANGUAGES

- Greek (Native)
- English (Professional/Fluent, IGCSE)
- French A1 (basic)

EXTRA CURRICULAR ACTIVITIES AND HOBBIES

- Lifeguard & Water Safety Training
- Sports: Swimming, Basketball, Tennis and Hiking

REFERENCES

Available upon request