

JOHN (IOANNIS) MARIS

Data Science, MSc.

About Me



Belgium, Brussels, Evere



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[Portfolio](#)



[LinkedIn](#)



[GitHub](#)

Honors & Awards



APPLE MSc Scholarship -

Disentangled Representation Learning via Mutual Information Optimization.

Awarded from [Apple](#), through [IACM FORTH](#) for my research in protein engineering using large language models to develop enzymes for plastic degradation. (Nov. 2024).



[Erasmus+ Traineeship Grant](#). 3 months

Awarded from Technical University of Crete.



[Erasmus+ Traineeship Grant](#). 4 months

Awarded from University of Crete.

Interests

- Machine Learning
- Statistics & Causality
- Deep Generative AI
- Natural Language Processing
- Bioinformatics
- Time Series & Econometrics
- Automotive Engineering
- Dynamical Systems

Language

- English (ECCE-Michigan)
- French (Elementary)
- Greek (Native)

Soft Skills

- Time Management
- Teamwork
- Problem Solving

Education



Master of Science in Data Analysis & Machine-Statistical Learning.

Oct. 2023 - Feb. 2025

110/90 ECTS programme.

Grade: 9.14 (Excellent).

Supervisor: [Yiannis Pantazis](#).

Thesis topic: Generative AI in Protein Engineering using Large Language Diffusion Models

Organizing bodies:

University of Crete: Dep. of Mathematics and Applied Mathematics & Dep. of Computer Science; Foundation of Research & Technology Hellas (FORTH): Institute of Applied and Computational Mathematics (IACM) & Institute of Computer Science



Bachelor of Science in Mathematics & Applied Mathematics.

Oct. 2017 - Sep. 2022

274/240 ECTS programme.

Grade: 7.6

Supervisor: [Yiannis Kamarianakis](#).

University of Crete: Dep. of Mathematics and Applied Mathematics.

Graduation requirements fulfilled in 9/2022, official graduation ceremony held in 7/2023.



Experience

• Toyota Motor Europe: BEV Range Internship : Brussels, Belgium (R&D)

Connected Powertrain



(Dec. 2024 - July 2025)

- Data Science, Machine Learning & Data Analysis Time Series Analysis
- Python, Git, RTBD (Real Time Big Data)
- System Control (e.g.: Extended Kalman Filter)
- Hybrid Models, Physical & Data Driven Models
- BEV Energy Flow (Vehicle, Powertrain, Climate & Battery)
- BEV Energy Consumption Prediction, Range Recommendation and Speed Forecast

• Internship at Foundation for Research and Technology - Hellas (FORTH) -

Statistical Learning & Predictive Modelling. (R&D)

(Dec. 2022 - May 2023)

• University Teaching Assistant.

- Machine Learning (Postgraduate), Python Computer Language (Fall 2023)
- Introduction to Linear Algebra (Fall 2022)
- Numerical Analysis (Spring 2024)

(Sep. 2022 - June 2024)

Publications

• 15-Minute Ahead Traffic Volume Forecasting in Athens using AR-Distributed Lag and GARCH Models with Robust Quantile Regression for Forecast Combination.

2024

• DiMA Protein Design: Generating Antimicrobial Peptides using Diffusion Models

2024

• BSc. thesis: Supervised Classification with Parametric Models

Supervisor: [Yiannis Kamarianakis](#)

2023



• Identification of Normal Modes in Underwater Acoustic Propagation using Convolutional Neural Networks.

In Proceedings of 24th international congress on acoustics, ICA, Acoustical society, Korea, 2022. **Authors:** [Costas Smaragdakis](#), John Maris, [Michael Taroudakis](#).

2022

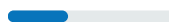


Programming & Frameworks

Python



PostgreSQL



Mojo



scikit-learn



pandas



PyTorch



TensorFlow



statsmodels



tsRNN



seaborn



matplotlib



SymPy



SciPy



NumPy



forecast



cdt



MASS



caret



ggplot2



glmnet



quantreg