

# JOHN MARIS

MSc. student

## About Me



Heraklion, Crete, Greece



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[Portfolio](#)



[LinkedIn](#)



[GitHub](#)

## Interests

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

## Language

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

## Soft Skills

- Time Management
- Teamwork
- Problem Solving

## Education



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

Oct. 2023 - Jan. 2025

90 ECTS programme.

Grade: A+ (Excellent).

Supervisor: Yiannis Pantazis.

Thesis topic: Generative AI in protein sequence generation using transformer-based diffusion models with language model embeddings.

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 (ICS).



### 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

- 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

- DiMA Protein Design: Generating Antimicrobial Peptides using Diffusion Models** 2024
- 15-minute ahead traffic volume forecast in Athens using AR models, Koyck transformation, ARDL, ARIMA, GARCH, and robust quantile regression for combining forecasts.** 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

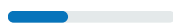


## Programming & Frameworks

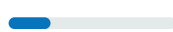
Python



PostgreSQL



Mojo



scikit-learn



pandas



PyTorch



TensorFlow



statsmodels



seaborn



matplotlib



SymPy



SciPy



NumPy



cdt



MASS



caret



ggplot2



glmnet



quantreg



forecast



sandwich



tsRNN

