Christos Giannaros

MSc Student in Data Analysis | ML, NLP, Cheminformatics

About Me

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LinkedIn

GitHub

Portfolio

Honors & Awards

- Awarded the APPLE MSc Scholarship (via IACM-FORTH), Aug 2025
- Research focus: Disentangled Representation Learning via Mutual Information Optimization.

- 1st Place IT Award, Erasmus Accommodation map recognized as the most innovative digital tool improving ESN services (ESN Greece National Assembly), Jul 2025
- Role: Web Project Admin (ESN HMUCrete)

Focus areas

- Machine Learning
- Statistics & Causality
- Deep Generative AI
- NLP
- Cheminformatics & Bioinformatics
- Data Visualization & Storytelling

Languages

- English (Cambridge Level 3 ESOL - Proficiency)
- Greek (Native)

Soft Skills

- Adaptability
- Communication & Cross-functional collaboration
- Problem-solving & critical thinking

Education

Master of Science in Data Analysis & Machine Statistical Learning
Oct. 2025 - Expected Mar 2026

Thesis (planned): Use of A.I in small molecules using Large Language Models & Transformer for predictive physicochemical properties using Fine-Tuning

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

Bachelor of Science in Physics
Oct. 2019 - Nov. 2025

Thesis topic: Use of Machine Learning models to predict molecular IC50 for 15-LOX-1

University Of Crete: Dep. of Physics

Experience

Greek Speech Dataset, Speech Signal Processing Laboratory at University of Crete in collaboration with FORTH-IACM.
Jul. 2024 - Present

- Contributed to building a Greek speech dataset: recording, preprocessing, and organizing audio
- Implemented tooling for dataset review and quality control (Python, Docker)

Internship at FORTH-IACM (Foundation for research & Technology - Hellas - Institute of Applied and Computational Mathematics
Jun. 2024 - Aug. 2024

- Worked with molecular data, focusing on data analysis and model implementation.
- Collaborated with researchers to support experiments and reporting

Lab assistant, Department of Physics, University of Crete
Feb 2024 - May 2024

- Assisted classical mechanics lab sessions, guided students in experiments and data analysis
- Supported grading and exam preparation

Innodays - Hackathon, Heraklion, Crete
Nov. 2023

- Developed and pitched a health and well-being product concept in 48 hours with a multidisciplinary team

Selected Projects

GUI for multi-instance MOS audio reviewing | Sep 2025 - Nov 2025

- Built a multi-instance reviewer UI for rating speech samples. (Dockerized)

Drug discovery with Generative AI (HPC) | Feb 2025 - May 2025

- Explored generative modeling workflows for molecular design using HPC resources

Optimizing factoid and confirmation QA with Transformer architectures | May 2025

- Evaluated transformer baselines and optimization strategies on QA tasks

Symbolic Music Generation with LSTM | May 2021

- Implemented sequence modeling for symbolic music generation

Programming & frameworks

PyTorch
TensorFlow
Matplotlib
Scikit-learn
MASS,quantreg,Caret
Seaborn