




ODYSSEFS DIAMANTOPOULOS PANTALEON

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SUMMARY

My research interests are focused on real-world applications of **Reinforcement Learning (RL)**. I am particularly interested in creating agents that will be able to tackle tough challenges in fields such as **Edge AI, Smart Grid Systems, Electric Vehicle Networks, Multimodal** applications, and **Natural Language Processing (NLP)** applications.

EDUCATION

8/2024 - Present **PhD in Computer Science** University of New Mexico (UNM)
supervised by *Prof. Eirini Eleni Tsiropoulou* and member of the *PROTON Lab*

9/2022 - 11/2023 **MSc in Computer Science** Athens University of Economics and Business (AUEB)
Grade: **9.36/10**, Master thesis: "**Residential Energy Consumption Optimization through Reinforcement Learning**", Supervisors: *George C. Polyzos and Iordanis Koutsopoulos*

9/2018 - 7/2022 **BSc in Computer Science** Athens University of Economics and Business (AUEB)
Grade: **8.19/10, Top 6% of all alumni** over the five-year span of 2017-2022, Bachelor thesis: "**Crypto-Card game built on Unity**", Supervisor: *George C. Polyzos*

9/2019 - 6/2021 **Minor in Philosophy** Deree - The American College of Greece
scholarship holder **Stavros Niarxos Foundation Scholar**, Minor in Ethics and Metaphysics, Degree Grade: **A**

9/2012 - 7/2018 **Highschool Education** Pierce - The American College of Greece
Graduation Grade: **19.8/20**, Graduated **1st in my class**

HONORS & AWARDS

- 2024, **International Amigo Scholarship** awarded to pursue a PhD in Computer Science at the University of New Mexico
- 2023, **1st Place** in the 2023 *European Patent Office (EPO) CODEFEST* with Helvia.ai team
- 2022, Ranked in the **Top 6% of all alumni** between 2017 and 2022
- 2019, **Stavros Niarxos Foundation Scholar**, funded Minor in Philosophy at Deree
- 2019, **Greek Youth Ambassador** at *XVII World Summit of Nobel Peace Laureates*
- 2018, Graduated **1st in my class** at Pierce Highschool

PUBLICATIONS

- **2023**, S. Chadoulos, O. Diamantopoulos, I. Koutsopoulos, G. Polyzos and N. Ipiotis, "**A Customizable OpenAI Gym Environment for Energy Efficiency Recommendations in Buildings with Reinforcement Learning**", to be submitted at **ACM e-Energy 2024**
- **2023**, L. Loukas, I. Stogiannidis, O. Diamantopoulos, P. Malakasiotis, and S. Vassos, "**Making LLMs Worth Every Penny: Resource-Limited Text Classification in Banking**", Accepted in: **4th ACM International Conference on Artificial Intelligence in Finance (ICAIF)**
- **2023**, S. Chadoulos, S. Athanasoulas, S. Kalogridis, N. Ipiotis, O. Diamantopoulos, I. Koutsopoulos and G. Polyzos, "**Energy Optimization of Building IoT Infrastructures in a Stratified Way**", Accepted in: **International SINERGY Conference on Smart and Innovative eENERGY management**

RESEARCH EXPERIENCE

11/2022 - 6/2024 **Machine Learning Research Engineer** Helvia.ai

- Conducted research to analyze the cost-effectiveness of **LLMs** in the domain of Finance
- Conducted **NLP** research on scientific text and image classification and **won the European Patent Office (EPO) 2023 Codefest**
- Constructed complex pipelines to evaluate state-of-the-art Retrieval-Augmentation-Generation techniques utilizing Large Language Models

9/2022 - 6/2024 **Research Assistant** Mobile Multimedia Laboratory - Athens University of Economics and Business

- Conducting research on reducing household energy costs using **Convex Optimization** and **RL** techniques

2/2023 - 1/2024 **Machine Learning Research Engineer** Plegma Labs

- Exploring the creation of Residential Energy Managers using **Reinforcement learning (RL)**

TEACHING EXPERIENCE

9/2022 - 7/2023 **Teaching Assistant** Athens University of Economics and Business

- Teaching Assistant for the 'Mathematics 1' course during the Fall semester of 2022 and the 'Databases' course during the Spring semester of 2023
- Responsible for **assessing assignments** and **holding office hours to provide assistance to students**

SKILLS

Programming: Python, Tensorflow, PyTorch, Keras, OpenAI Gymnasium, Ray, Pandas, Tensorboard, HuggingFace, Weights & Biases, Optuna, Stable Baselines, Solidity, Unity, C#, Java, CVXPY, LaTeX, Docker, Anaconda, Linux, Hadoop

Languages: Greek (native), English (proficient - C2), Italian (beginner - A2)

HOBBIES

Favorite Activities: Volleyball, Dog Walking, Gaming, Running, Philosophy and History book reading, Volunteering, Sports