

# Georgios Xanthopoulos

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## SUMMARY

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I am currently in the internship phase of my Master studies in Business Analytics, specializing in Computational Intelligence and built on a solid Applied Mathematics foundation. I am passionate about leveraging deep learning and reinforcement learning to drive data-driven decision-making and solve complex challenges. I enjoy working on recommender systems and AI models that uncover patterns in large datasets, enabling smarter, more personalized experiences. As a team-oriented professional, I thrive in brainstorming sessions, where collaboration and diverse perspectives lead to innovative solutions. With strong skills in Python, PyTorch and Pandas, I am committed to developing impactful machine learning models with integrity and a problem-solving mindset.

## EDUCATION

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### Vrije Universiteit Amsterdam

Sep 2022 -Present

MS, Business Analytics – Computational Intelligence

Amsterdam, The Netherlands

- Field of interest: Deep Learning, Machine Learning, Reinforcement Learning, Recommender Systems, Statistical Modeling.

### University of Crete

Nov 2021

BS, Applied Mathematics – Mathematical Modeling & Scientific Computing

Heraklion, Greece

- Co-founder of Aesthetics Protection Association. Led campus cleanup initiatives and proposed -facility improvements, enhancing the study environment.

## WORK EXPERIENCE

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### Vrije University of Amsterdam

Sep 2022 – June 2024

Teaching Assistant

Amsterdam, The Netherlands

- Tutored master's students in Data Mining and Machine Learning for the Quantified Self.
- Tutored undergraduate students in Statistics.
- Graded assignments and exams, provided detailed feedback, supervised weekly sessions, and conducted oral assessments to uphold academic standards and integrity.

### Foundation for Research and Technology – Hellas (F.O.R.T.H)

June 2021 - Nov 2021

Undergraduate Research Assistant

Heraklion, Greece

- Explored the potential of Convolutional Neural Networks for the classification of steady states in the Allen-Cahn reaction-diffusion equation.

### University of Crete

Sep 2018 – June 2020

Teaching Assistant

Heraklion, Greece

- Voluntarily tutored undergraduates in Programming Languages I and II.
- Graded assignments, organized tutorials, and guided students to successfully pass their exams.

## PROJECTS

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### ▪ “Mood Forecasting using Phone Data: Trees versus Neurons”.

Developed models to predict the next day's user mood based on app usage data, employing both Random Forest and LSTM architectures.

### ▪ “Kaggle competition: [Personalize Expedia Hotel Searches](#)”.

Learned to rank hotels based on search queries using XGBoost's LambdaMART implementation and Polars, reaching an NDCG score of 0.34.

- **“Exploring Deep Reinforcement Learning for Robotic Tasks in Sparse Reward Environments”.**

Evaluated multiple reinforcement learning algorithms (DQN, DDPG, and SAC) using the StableBaselines3 library and OpenAI Gym, identifying the optimal model for multi-goal tasks.

## SKILLS & INTERESTS

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- **Hard Skills:**

Python • Pandas • Polars • XGBoost • PyTorch • TensorFlow • Deep Learning • Machine Learning • Statistics • NumPy • R (MASS, glmnet, lme4, car for regression analysis) • Markdown • LaTeX

- **Soft Skills:**

Teamwork • Mentoring • Decision Making • Public Speaking • Emotional Intelligence • Analytical Thinking

- **Interests:**

Psychology • Cinematography • Popular Science

- **Hobbies:**

Swimming • Beekeeping • Volunteering