# Ippokratis Pantelidis

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## Education

**University of Amsterdam** Sep 2025 – Present
*Master of Science in Artificial Intelligence* *Amsterdam, The Netherlands*

- **Grade:** 8.30/10.00
- **Activities:** Teaching Assistant (CV1, NLP1), Project Artificial Intelligence A (TNO)

**Athens University of Economics and Business** Oct 2021 – Aug 2025
*Bachelor of Science in Computer Science* *Athens, Greece*

- **Grade:** 9.27/10.00 (Valedictorian)
- **Activities:** Research Member of AUEB NLP Group (Biomedical Team), Erasmus+ Exchange Program, AUEB CS Labs Administrator, Active Member of TechBiz 2024

**Stockholm University, Department of Computer and Systems Sciences** Jan 2025 – Jun 2025
*Erasmus+ Exchange Program* *Stockholm, Sweden*

- **Grade:** B
- **Activities:** Research Member of the *EFRA Project*, Swedish for International Students (Course 2)

## Work Experience

**Teaching Assistant** Sep 2026 – Present
*University of Amsterdam* *Amsterdam, The Netherlands*

- Teaching Assistant for Computer Vision 1 (MSc AI), hosting weekly lab sessions, assisting students with questions on assignments and theory.
- Teaching Assistant for Natural Language Processing 1 (MSc AI), leading tutorials and practicals, grading assignments and exams, and supporting students with course material.

**Applied Research Intern** Jun 2026 – Aug 2026
*TNO* *Amsterdam, The Netherlands*

- Worked on large-scale bridge analysis by developing object detection and classification models to identify structural features, supporting domain experts in maintenance and inspection processes.
- Explored 3D reconstruction of bridges from multi-view imagery, combining monocular depth estimation with multi-view triangulation to recover structural geometry and support feature localisation.

**Research Intern** Jun 2025 – Nov 2025
*Archimedes Unit of Athena Research Center* *Athens, Greece*

- Co-authored the paper "AUEB NLP Group at ImageCLEFmedical Caption 2025", along with the Biomedical Team of the AUEB NLP Group. The paper presents the team's approach and results in the ImageCLEFmedical Caption 2025 challenge, achieving 1st place in Concept Detection, 5th place in Caption Prediction, and 1st place in Explainability.

**Research Assistant** Apr 2025 – Jul 2025
*Department of Computer and Systems Sciences, Stockholm University* *Stockholm, Sweden*

- Containerized top-performing models from SemEval 2025 Task 9 (The Food Hazard Detection Challenge) using Docker and deployed them to the EFRA Powerhouse DataHub for reproducible execution and evaluation.
- Co-authored and submitted "Efficient Text Classification with Conformal In-Context Learning" to LREC 2026, presenting a comprehensive multi-domain evaluation of the existing CICLe framework and demonstrating its efficiency and performance benefits.

**Data Scientist Intern** Sep 2024 – Dec 2024
*Quintessential SFT* *Athens, Greece*

- As part of my training, I specialized in forecasting football time-series data, gaining hands-on experience in data preprocessing and applying machine learning techniques to accurately predict match outcomes. Key libraries and tools I utilized include Pandas, Scikit-Learn, Cookiecutter, Data Version Control (DVC), AutoGluon and SciPy.
- Designed a computer vision pipeline to automate quality assurance for a company. The system analyzes and compares Figma designs with actual implementation images, identifying discrepancies, highlighting mismatch hotspots, and generating detailed diagnostic messages that explain 'what went wrong' in identified areas.

## Skills

**Programming Languages**: Python, Java, JavaScript, C, C++, SQL, R
**Libraries**: NumPy, Matplotlib, Pandas, Scikit-Learn, TensorFlow, PyTorch, OpenCV, Hugging Face
**Developer Tools**: Git, Linux, Jupyter Notebook, VS Code, Docker, FastAPI
**Technical Concepts**: Data Structures, Databases, Large Language Models, Conformal Prediction, Prompt Engineering, CUDA Optimization, Retrieval Augmented Generation, Object Detection, Video Foundation Models, World Models

## Publications

**How Do Video Foundation Models Encode Intuitive Physics?** 2026

- S. Punzo, N. Caselli, **I. Pantelidis**, F. Massafra, S. Lo Sardo, M. Salehi. *Accepted (Poster) at the NeurIPS 2026 Workshop on World Models and Physical AI (WM PAI).* [Paper]

**Mind the Gap: Promises and Pitfalls of Hierarchical Planning in LeWorldModel** 2026

- N. Caselli, F. Massafra, S. Punzo, S. Lo Sardo, **I. Pantelidis**, S. K. Bhethanabhotla. *Accepted at the NeurIPS 2026 Workshop on Pretrained Agents (PTA) and at the Workshop on World Models at Chicago Booth (WM@Booth 2026).* [Paper]

**AUEB NLP Group at ImageCLEFmedical Caption 2025** 2025

- A. Chatzipapadopoulou, **I. Pantelidis**, F. Charalampakos, M. Samprovalaki, G. Moschovis, P. Kaliosis, K.V. Dalakleidi, J. Pavlopoulos, I. Androutsopoulos. *CLEF 2025*, Madrid, Spain. [Paper]