







PANAGIOTIS KALIOSIS

CS PhD Applicant

-  Personal Website
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-  Google Scholar
-  GitHub Profile
-  Athens, Greece
-  Panagiotis Kaliosis

SUMMARY

My research interests lie in the fields of **Natural Language Processing (NLP)**, **Computer Vision**, and **Multimodal Machine Learning**, with a particular emphasis on developing innovative solutions for semantic analysis, image understanding, and cross-modal integration. However, I am also intrigued by fundamental Machine Learning topics, including supervised or unsupervised learning and model interpretability.

EDUCATION

- 10/2022 - 11/2023 **MSc in Computer Science** **Athens University of Economics and Business**
MSc Thesis: *"Exploring Unimodal, Multimodal and Few-shot Deep Learning Methods for Diagnostic Captioning"*, supervised by I. Androutsopoulos and J. Pavlopoulos.
Grade: **9.4/10**.
- 01/2022 - 06/2022 **BSc Exchange Studies** **Stockholm University**
Spent a semester in the Department of Computer & Systems Sciences (DSV) at Stockholm University.
Grade: **8.5/10**.
- 10/2018 - 09/2022 **BSc in Computer Science** **Athens University of Economics and Business**
Major in Databases & Knowledge Management and Information Systems Security.
Grade: **7.65/10**.

RESEARCH EXPERIENCE

- 04/2023 - Present **Research Assistant** **National Center for Scientific Research "Demokritos"**
 - Worked on the development of the "SmartSubs" national research project, which aimed at developing a speech-enabled system for the automatic captioning of theatrical plays.
 - Conducting research on the development of multimodal methods for identifying Alzheimer's disease through the analysis of speech signals.
 - Currently engaged in an ongoing ICASSP 2024 challenge which aims to detect psychotic relapses in patients utilizing wearable sensors.`PyTorch / ASR / HuggingFace / Pandas / Docker`
- 10/2022 - Present **Research Assistant** **Athens University of Economics and Business**
 - Member of the Information Processing Laboratory (*IPLab*).
 - Conducting research on Diagnostic Captioning | Mostly focused on the development of multimodal and/or few-shot learning captioning systems applied on the biomedical domain.`Python / PyTorch / LLMs / Latex`

TEACHING EXPERIENCE

- 10/2022 - 02/2023 **Teaching Assistant** **Athens University of Economics and Business**
 - Teaching assistant on AUEB's "Mathematics I" undergraduate course, which investigates fundamental topics on Differential & Integral Calculus (Fall Semester 2022).

PUBLICATIONS

- 2024** P. Kaliosis, J. Pavlopoulos, F. Charalampakos, G. Moschovis and I. Androutsopoulos, [*Anonymous ACL Submission on the topic of Controllable Text Generation*], North American Chapter of the Association for Computational Linguistics (NAACL), Mexico City, Mexico, 2024 (**Under review**).
- 2023** P. Kaliosis, G. Moschovis, F. Charalampakos, J. Pavlopoulos and I. Androutsopoulos, *AUEB NLP Group at Image-CLEFmedical Caption 2023*. Proceedings of CLEF 2023 - Conference and Labs of the Evaluation Forum, Thessaloniki, Greece, 2023.
- 2023** E. Chatzi, D. Christopoulos, G. Sofianopoulos, E. Patiniotaki, S. Eleftheriou, P. Koromilas, P. Kaliosis, N. Gkouti, T. Giannakopoulos, K. Petridis, E. Sismanidou, *SmartSubs: Subtitling app for more accessibility to large-scale VR live virtual performances*. SMAP - 18th International Workshop on Semantic and Social Media Adaptation and Personalization, Limassol, Cyprus, 2023.

HONORS & AWARDS

- **2023:** Ranked **1st** in the ImageCLEFmedical **Concept Detection Challenge** as member of the AUEB NLP Group.
- **2023:** Ranked **3rd** in the ImageCLEFmedical **Caption Prediction Challenge** as member of the AUEB NLP Group.

LANGUAGES

Greek: Level: **Native**
English: Level: **Proficient**, IELTS Score: **8.0/9.0**
Spanish: Level: **Beginner**

SKILLS

Programming: Python, PyTorch, Keras, Pandas, SQL, Java, JavaScript, C, C++.

Technologies: Docker, Kubernetes, Spark, Hadoop.

VOLUNTEERING

2018-Present

Student Engagement and Community Enrichment

Athens Student Network

Dedicated to fostering a vibrant community, I provide support and guidance to exchange students in Athens, organizing workshops and activities to make their stay memorable.