Aristeidis Papadopoulos

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Education

Trinity College Dublin   Started Sept 2024
PhD student in Neural Architectures for Multimodal Speech Recognition   *Dublin, Ireland*
- **Related Coursework:** Coursework in Deep Learning and its Applications
- **Related Demonstrator Work:** Teaching Assistant in Digital Systems Processing, Electronic Engineering, Computational Methods

Democritus University of Thrace   Graduated Dec 2022
Integrated MEng in Electrical & Computer Engineering (Grade: 7.97 / 10.00)   *Xanthi, Greece*
- **Thesis:** Indoor Sound Detection & Classification
- **Relevant Coursework:** Computer Vision (Python), Pattern Recognition (MATLAB/Python), Digital Image Processing (MATLAB)

Experience

Greek Army   Jan 2023 – Aug 2023
Computer & Network Specialist   *Alexandroupolis, Greece*
- Member of the team providing technical support to users and maintaining hardware.
- Network Monitoring.
- Regular interaction with individuals from diverse backgrounds, elucidating or resolving complex situations

Projects

Indoor Sound Detection & Classification | *Python, Tensorflow-Keras, LaTeX, Pycharm*
- Indoor sound classification using machine learning techniques. Classification of nine different audio scenes, such as washing the dishes or eating, using different models, such as Vision Transformers, Model Ensemble etc. *Grade: 10/10.*

Color Reduction Using Kohonen's Self Organizing Maps | *Image Processing, MATLAB*
- Using Kohonen's Self Organizing Maps, Color Reduction is achieved in order to minimize memory requirements of saved images and compress images sufficiently without grand losses in information.

MPI Implementation of Strassen's algorithm | *C, Atom, Teamwork*
- Application of Strassen's Matrix Multiplication algorithm in MPI for parallel computing. Using a cluster of university computers, the team I worked with implemented Strassen's algorithm to test when using this method is computationally efficient.

Conferences

UK & Ireland Speech (UKIS) 2025   June 2025
What does an Audio-Visual Speech Recognition Model know about Visemes?

Skills

Languages: Python, MATLAB, C, C#, LaTeX, MySQL
Technologies: TensorFlow, PyTorch, Pycharm, Atom, Visual Studio Code, Keras, PowerBI, Tableau, Microsoft Office Suite
Soft Skills: Adaptability, Quick Learner, Teamwork, Communication, Work-Ethic, Problem Solving, Analytical Thinking

Languages

Greek: Native   **English**: Proficient   **German**: Beginner

Certifications

Automate the boring stuff with Python | *Python* | Udemy
Foundational C# with Microsoft | *C#, Visual Studio Code* | FreeCodeCamp
License to Practice the Electrical Engineering Profession | Technical Chamber of Greece
Sports Data Analyst | *PowerBI, MySQL, Tableau, Excel* | Workearly/Reatcode
IBM Applied A.I. Professional Certificate | *Python, Artificial Intelligence* | Coursera

Hobbies

Football   **Music Listener**   **Cinephile**   **Book worm**   **Travelling**   **Gaming**

References

Prof. Naomi Harte: PhD Supervisor
Prof. Nikolaos Mitianoudis: Thesis Supervisor
Warrant Officer (RI) Gabriel Karageorgiadis: Supervisor during military service