Constantinos P. Petrides

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EDUCATION

•**BSc. Physics - Envirometnal Physics and Meteorology**   *2019-Present*

National and Kapodistrian University of Athens, Athens, Greece   8/10 [Expected]

Courses: Analysis I-II, Mathematical Physics, Ordinary Differential Equations, Physics I-II-III-IV, Programming, Fluid Dynamics, Environmental Physics, Astrophysics, Nuclear Physics, Electronic Physics, Atmospheric Boundary Layer and Atmospheric Quality, Synoptic Meteorology

•**Cypriot Apolitirion**   *2014-2017*

Kykos B High School, Nicosia, Cyprus   18.6/20

Courses: Programming, Advanced Mathematics, Advanced Physics, Greek, Italian, Spanish

PROFESSIONAL EXPERIENCE

•**Stories by Heroes (non-profit)**   *2023-Present*

Founder, Nicosia, Cyprus

– SbH is a movement aiming to break stigmas surrounding disabled people and give disabled people a platform to speak about their disabilities, everyday life and the difficulties they face.

•**Cyprus Ministry of Health**   *2020*

Infection Preventionist, Nicosia, Cyprus

– Developing reports and statistical data for the medical executive committee and investigating patterns of covid-19 infection within the community.

•**Military Service**   *2017-2018*

Cyprus National Guard, Nicosia, Cyprus

RESEARCH EXPERIENCE

•**Impact of the Covid-19 on air pollution levels in Athens**   *2022-Present*

National and Kapodistrian University of Athens, Athens, Greece

– Investigate the impact of the COVID-19 pandemic on atmospheric pollution in selected areas of Athens.
– **Tools & technologies used:** Python, Data Analysis, Meteorology, ABL Physics
– **Authors:** C.Petrides, E. Bosioli (supervisor)

•**Algorithms for Atmospheric Boundary Layer Turbulence Profiles**   *2022*

National and Kapodistrian University of Athens, Athens, Greece

– Provides algorithms for ABL Modeling such as An-isotropic and Isotropic Atmosphere, Wind-Speed Profile and Turbulence Profiles.
– Tools & technologies used: Python, C++, Atmospheric Boundary Layer Physics
– **Authors:** A.Georgiou, C.Petrides

•**CMS Analysis of the 40MHz scouting data recorded in 2018**   *2019-2021*

CERN, Geneva, Switzerland

– Analyse the first-ever-recorded CMS@CERN scouting data at 40MHz and searching for regularities and irregularities therewithin. Summarise observations and findings from the analysis of cosmic muons in the 40 Mhz scouting data recorded in 2018.
– **Tools & Technologies Used:** Python, Latex, Machine Learning and Monte Carlo sampling, Nuclear Physics and Special Relativity.
– **Authors:** C. Petrides, E. Meschi, G. Alexandris, K. Theofilatos

PROFESSIONAL MEMBERSHIPS

•**Cyprus Space Exploration Organisation**   *2021-Present*

Member

Github Repositories

•**Brain tumor classification using deep learning CNN model to analyze MRI images.** *2024-Present*

Collaboartion

- Developed a comprehensive software solution for brain tumor classification using a Convolutional Neural Network (CNN) model on MRI images.
- **Tools & Technologies Used:** Python, TensorFlow, Keras, Medical Imaging (MRI), Data Preprocessing, Data Augmentation.
- **Authors:** P. Ellinas, P. Kleanthous, K. Nearchou, C. Petrides

Awards

•**Municipality of Kyrenia Award** *2017*

Municipality of Kyrenia Academic Achievement Award, Cyprus

•**Academic Achievement Award** *2016-2017*

Kykkos High School B

•**Innovation Award for the presentation of Whisper dishes** *2017*

6th Pan-Cyprian Student-Teachers Conference in Natural Sciences

•**Innovation Award for the presentation of a Solar Air Heater** *2016*

5th Pan-Cyprian Student-Teachers Conference in Natural Sciences

Technical Skills

Native Languages: English, Greek
Elementary Level Language: Spanish, BSL (British Sign Language)
Developer Tools: Python, C++, SQL, R, Java, HTML, CSS