

Ioannis Kyprakis

Research Scientist

H

19 January 1996 +30 6957110726



https://github.com/Ikyprakis



ikyprakis@gmail.com

About me ———

Research scientist with extensive expertise in Data Analysis, Bioinformatics, and Machine/Deep Learning. Proficient in Python, Matlab, and TensorFlow/PyTorch, with over three years of experience applying AI and data-driven solutions in biomedical research. Passionate about leveraging technology for innovative healthcare applications

Skills ——

• Python, C

 Biosignal Analysis

Matlab

 Machine/Deep Learning

 Pytorch/ Tensorflow

 Fine-tuning Techniques

 Foundation Models Data Analysis

 Data Visualization

Latex

Multitasking

Flexible

Adaptable

Teamwork

Leadership

Reliable

Languages ———

Greek (native)

• English (C2)

Education

2023–2024 M.Sc. Artificial Intelligence in Healthcare University of Burgundy

Thesis Identification of Parkinson's Disease Facial Symptoms by Uti-

lizing Deep Learning Techniques | Grade: 15.305

2022-2024 M.Sc. Informatics Engineering Hellenic Mediterranean University

Grade: 8.70

2014-2022 B.Sc. Informatics Engineering Hellenic Mediterranean University

Thesis calculation of vegetation indicators in crops through optical

methods and IoT technologies | Grade: 7.56

Link: https://apothesis.lib.hmu.gr/handle/20.500.12688/10416

Experience

Nov 2024-Today Research scientist,

CardiOCARE Project (https://cardiocare-project.eu), Computational BioMedicine Laboratory Institute of Computer Science-FORTH

- Contribute to data collection, preprocessing, and analysis from clinical centers across Europe, leveraging deep learning techniques on sensor data (H10 Polar Belt, Garmin Venu Smartwatch) to extract –digital– biomarkers for Quality of Life and intrinsic capacity estimation in elderly multimorbid patients.
- Collaborate with leading institutions, including the European Institute of Oncology (IEO), Bank of Cyprus Oncology Centre (BOCOC), and Karolinska University Hospital, to monitor and assist in data collection progress.
- Work with interdisciplinary teams from University of Ioannina (UOI), Institute of Computer Science-FORTH, and Stremble Ventures to develop an integrated model tailored to the project's objectives under the Horizon 2020 program.

Jan 2024-Today Data engineer,

ProMote Project (https://promote.soc.uoc.gr), Computational BioMedicine Laboratory Institute of Computer Science-FORTH

- Contribute to data collection, curation, and preprocessing of ECG signals acquired from clinical centers across Crete using SEER 1000 devices, focusing on the extraction of heart rate variability (HRV) features in mother-infant dyads.
- Collaborate with leading institutions, including the University of Crete, FORTH-ICS, and clinical partners, to support high-quality data acquisition and ensure harmonized processing pipelines.
- Work with interdisciplinary teams from academia and healthcare to provide reliable datasets that enable the study of maternal and neonatal health within the project.

Mar 24-Oct 24 Research Scientist Intern,

Computational BioMedicine Laboratory Institute of Computer Science-FORTH

- Focused on research projects related to Parkinson's disease, emphasizing advanced video analysis techniques.
- Conducted multimodal data collection, preprocessing, and analysis to support project objectives.
- Delivered weekly presentations to laboratory teams, showcasing findings and progress.
- Developed expertise in deep learning video models, including state-of-the-art methods for video processing.

Oct 22-Jun 23 Laboratory Assistant Lecturer Hellenic Mediterranean University

- Served as the instructor for the laboratory courses in Computer Vision and Internet of Things, under the supervision of Dr. Konstantinos Marias and Dr. Spyridon Panagiotakis.
- Assisted in Electronics II coursework (supervised by Dr. Georgios Viskadouros).
- Prepared and organized teaching materials, graded assignments, and provided detailed feedback to students.
- Implemented innovative teaching strategies to enhance student engagement and comprehension.
- Held office hours to address student concerns and provide academic support.

Mar 22-Aug 22 Research Scientist Intern

Hellenic Mediterranean University Sensor Networking Laboratory

- Conducted research on IoT technologies, focusing on experimental setups, big data collection, and analysis.
- Assisted in Electronics II coursework (supervised by Dr. Georgios Viskadouros).
- Delivered laboratory lectures on IoT technologies and communication protocols.
- Collaborated on multiple IoT-related projects.

Leadership & Activities

2024-Today Organizer and Chair, IEEE EMBS Chapter Hellenic Mediterranean University

- Established and chaired the IEEE Engineering in Medicine and Biology Society (EMBS) chapter at Hellenic Mediterranean University.
- Organized and led activities, including technical seminars, workshops, and networking events, to promote interdisciplinary research in biomedical engineering.
- Collaborated with institutions such as CS FORTH, General University Hospital of Heraklion, and the University of Crete to foster partnerships and drive impactful initiatives.
- Coordinated chapter elections and strategized goals to enhance member engagement and professional development.

Certificates

| Apr 2024 | Sequence Models Credential ID: MVFTPLH7NNBG | DeepLearning.AI |
|----------|--|------------------------------------|
| Mar 2024 | Basic Life Support (BLS) Credential ID: ERC-762-956500 | ERC European Resuscitation Council |
| Dec 2023 | The Complete Cyber Security Course: Hackers Exposed! Udemy Credential ID: UC-e4f4311a-a176-4079-99b6-260cbba0d3de | |
| Nov 2023 | Explaining machine learning models Credential ID: 75TFT7EZW27V | Coursera |
| Apr 2023 | Industrial Cyber Security Training Course for Technicians in Industry 4.0 Erasmus+ Credential ID: 2018-1-ES01-KA203-050493 | |

Publications

