

Spyridon (Spiros) Baxevanakis

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Summary

Computational Scientist

Experience in simulation of natural phenomena, machine learning, stochastic processes and time series analysis.

Early Stage Researcher

Two years experience in research laboratories, have co authored three peer reviewed articles and preprints.

Software Engineer

Over 3 years of software engineering experience, individually and in teams.

Quick Learner

Able to apply previous knowledge in order to learn new concepts. Have worked with a lot of different tools.

Team Player

Enjoy cooperation and have successfully collaborated with teams of researchers, software engineers and volunteers.

Research Interests

Artificial Intelligence

Deep Reinforcement Learning, Transfer Learning, Unsupervised Learning, Artificial General Intelligence, Multi-task Learning, Collective and Emerging Intelligence, Evolutionary Algorithms

Biology & Medicine

Personalized Medicine, Artificial Intelligence in Biomedicine, Computational Neuroscience

Statistics & Applied Mathematics

Statistical Inference, Time Series Analysis and Forecasting, Mathematical Modeling and Simulation of Dynamical Systems, Computational Physics

Current Positions and Positions Held

Undergraduate Researcher

Corfu, Ionian Islands, Greece

COMPUTATIONAL MODELING LABORATORY (CMODLAB), IONIAN UNIVERSITY

Jun. 2018 - Jun 2020

- Research and development of cellular automata models for simulating dry metal friction, a project collaboration with the Georgia Institute of Technology. Extensively studied tribology and the friction process.
- Supervised a team of three undergraduate students in the process of creating lab software and visualization tools.
- Assisted in the development of machine learning models for the prediction of fruit fly population using multi-year population datasets.
- Administrator of the lab's databases.
- Under the supervision of Prof. Markos Avlonitis and Prof. Ioannis Karydis.

Software Engineer Intern

Corfu, Ionian Islands, Greece

CREATIVE WEB APPLICATIONS (CWA)

Jul. 2019 - Sep. 2019

- Created an automated preprocessing and data management system to be used by the Computational Modeling Laboratory, Ionian University.
- Created MySQL databases for storing multi-year datasets containing fruit fly population and environmental data to be used by the Computational Modeling Laboratory, Ionian University.

Formal Education

Dept. of Informatics, Ionian University

Corfu, Ionian Islands, Greece

BSC IN INFORMATICS

Oct. 2016 - June. 2020 (Expected)

- GPA: 8.92
- Thesis: "Stochastic Processes and Methods in Computational Physics".
Thesis Committee: Markos Avlonitis, Panayiotis Vlamos, Themis Exarchos.

Further Education

Neural Networks and Deep Learning

Coursera

DEEPLARNING.AI

August 2020

- Certificate available here.

Pandas

Kaggle

KAGGLE

August 2020

- Certificate available here.

Julia Scientific Programming

UNIVERSITY OF CAPE TOWN

- Completed with Honors.
- Certificate available [here](#).

Coursera

December 2019

Introduction to Digital Currencies

UNIVERSITY OF NICOSIA (UNIC)

UNIC Moodle Platform

July 2018

Fundamentals of Neuroscience Part 3: The Brain (mcb80x)

HARVARD UNIVERSITY

EDX

June 2017

Fundamentals of Neuroscience, Part 2: Neurons and Networks (mcb80x)

HARVARD UNIVERSITY

EDX

July 2017

Fundamentals of Neuroscience, Part 1: The Electrical Properties of the Neuron (mcb80x)

HARVARD UNIVERSITY

EDX

July 2017

Artificial Intelligence (CSMM.101x)

COLUMBIA UNIVERSITY

Coursera

December 2017

Extracurricular Activity

IEEE Student Branch of the Ionian University

PRESIDENT & FOUNDER

Corfu, Ionian Islands, Greece

Oct. 2018 - May 2020

- Coordinated a large team of IEEE members to organize interdisciplinary talks, workshops, seminars and positively impact the student community.
- Organized and taught a course titled "Introduction to Programming with Python" to freshmen. Course material available [here](#).

Publications & Preprints

Towards a Personalized Multimodal System for Natural Voice Reproduction

STELIOS GAVRAS, SPIROS BAXEVANAKIS, DIMITRIS KIKIDIS, EFTHYMOS KYRODIMOS AND THEMIS EXARCHOS

SMAP Conference

2020

- Awaiting proceedings.
- PDF available [here](#).

A Machine Learning Approach for Gender Identification of Greek Tweet Authors

SPIROS BAXEVANAKIS, STELIOS GAVRAS, DESPOINA MOURATIDIS AND KATIA LIDA KERMANIDIS

PETRA Conference

2020

- View on ACM Digital Library.
- PDF available [here](#).

Solving Atari Games Using Fractals And Entropy

CEREZO, S. H., BALLESTER, G. D., & BAXEVANAKIS, S.

arXiv:1807.01081

2018

- PDF available [here](#).

Presentations

5th IEEE Hellenic Students and Young Professionals

PRESENTER FOR <IEEE STUDENT BRANCH OF IONIAN UNIVERSITY>

*Democritus University of Thrace,
Xanthi, Greece*

8-10 Nov. 2019

- Presented the work of the IEEE Student Branch of Ionian University.

Honors & Awards

1st Place, 5th IEEE Hellenic Students and Young Professionals

BEST POSTER COMPETITION

*Democritus University of Thrace,
Xanthi, Greece*

2019

Conferences and Workshops

5th IEEE Hellenic Students and Young Professionals

ATTENDEE

*Democritus University of Thrace,
Xanthi, Greece*

8-10 Nov. 2019

12th Mediterranean Conference on Information Systems

MEMBER OF THE ORGANIZING COMMITTEE

Ionian University, Corfu, Greece

28-30 Sept. 2018

Panhellenic Symposium on Oceanography and Fisheries

MEMBER OF THE ORGANIZING COMMITTEE

Ionian University, Corfu, Greece

30 May - 3 Jun. 2017

Medical Physics and Biomedical Engineering

MEMBER OF THE ORGANIZING COMMITTEE

Ionian University, Corfu, Greece

6 - 10 Nov. 2017

21st Pan-Hellenic Conference on Informatics

ATTENDEE

*University of Thessaly, Larissa,
Greece*

28 - 30 Sept. 2017

Skills

Machine Learning

Supervised, Unsupervised & Reinforcement Learning Algorithms (Sklearn, TensorFlow, OpenAIGym), Data Preprocessing (Pandas, NumPy), Natural Language Processing (NLTK)

Computer Science

Web Scraping (Octoparse, urllib2), Time Series Analysis, Stochastic Processes, Calculus, Probability Theory, Statistics

Programming Languages

Python, Julia, Mathematica, C, Go, C++

Notable Software

Linux, Latex, MySQL, Vim, Bash

Interpersonal / Soft Skills

Team Leadership, Project Coordination and Planning, Thinking outside the box, Rapid Prototyping

Languages

Greek (Native), English (C2 Proficient), French (Basic)