

# Spyridon (Spiros) Baxevanakis

Thessaloniki, Greece

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## Current Positions and Positions Held

### Researcher

Thessaloniki, Greece

CERTH - ITI

Sept. 2021 - Current

- Research and development of Deep Learning based methods for the detection of DeepFake images and videos.
- Focused on model generalization and robustness to unseen manipulations.
- Supported by the European Union research program WeVerify (<https://weverify.eu/>).
- Tools used: PyTorch, PyTorch Lightning, Julia, Python & JupyterLab, R

### Informatics Private

Larisa, Greece

Greek Army

Nov. 2020 - Aug. 2021

- Fulfilled my military obligations as required for all Greek males over the age of 18.

### Software Engineer Intern

Corfu, Greece

Creative Web Applications (CWA)

Jul. 2019 - Aug. 2019 (2 months)

- Responsible for creating an automated preprocessing and data management system for the EU research project "e-Olive".
- The system handled over 100,000 sensor measurements ( $\approx 5000$  daily) of environmental conditions from dozens of sensors scattered throughout the northern part of Corfu island.
- Project link: <http://www.e-olive-project.eu/about/>
- Tools used: MySQL, Python (datetime, os, glob), Bash scripting

## Formal Education

### BSc in Informatics

Corfu, Greece

Dept. of Informatics, Ionian University

Oct. 2016 - Aug. 2020

- Graduated 1st in my class, 11th in department history, 96.6th percentile
- Grade: 8.92 / 10, Upper Division GPA: 3.66 / 4.0
- Received the Ionian University Excellence Award (500€)
- Founder and Chairman of the University's IEEE Student Branch.

## Further Education

### Statistical Inference

Coursera

Johns Hopkins University

May 2021

- Certificate available [here](#).
- For the course project I created the following two PDF reports in R:
  1. Application of the Central Limit Theorem on the Exponential distribution.
  2. Exploratory Analysis of the ToothGrowth dataset.
- Github repository with the reports.

### Deep Learning Specialization (5 courses)

Coursera

DeepLearning.AI

October 2020

- Certificate available [here](#).

### Julia Scientific Programming

Coursera

University of Cape Town

December 2019

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

## Skills

<b>Machine Learning</b>	Implementing Deep Learning architectures (PyTorch), Natural Language Processing (NLTK)
<b>Computer Science</b>	Data Preprocessing (Pandas, NumPy, Julia), Data Analysis (R), Web Scraping (Octoparse, urllib2)
<b>Programming Languages</b>	<b>Python, Julia</b> , Mathematica, C, Go, C++
<b>Notable Software</b>	<b>Linux</b> , Latex, MySQL, Vim, Bash
<b>Interpersonal / Soft Skills</b>	Team Leadership, Project Coordination and Planning, Thinking outside the box, Rapid Prototyping
<b>Languages</b>	Greek (Native), English (C2 Proficient, IELTS Academic 8.0 / 9.0)

## Research Interests

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<b>Artificial Intelligence</b>	Explainable AI, Causal AI, Probabilistic Graphical Models, Bayesian Neural Networks, Causal Inference, Model-Based Learning
<b>Deep Learning</b>	Unsupervised Learning, Transfer Learning, Multi-task Learning, Multimodal Deep Learning, Self-Supervised Learning
<b>Robotics</b>	Reasoning and Planning for Mobile Robots, Human-Robot Interaction, Grounded Language Learning

## Publications

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### The MeVer DeepFake Detection Service: Lessons Learnt from Developing and Deploying in the Wild

*MAD Workshop, ICMR'22*

Baxevanakis et al.

2022

- (Sumbitted) 1st ACM International Workshop on Multimedia AI against Disinformation (MAD'22) organized with the ACM International Conference on Multimedia Retrieval (ICMR'22), Newark, NJ, USA, June 27-30, 2022.

### Towards a Personalized Multimodal System for Natural Voice Reproduction

*SMAP Conference*

Stelios Gavras, Spiros Baxevanakis, Dimitris Kikidis, Efthymios Kyrodimos and Themis Exarchos

2020

- In the 15th International Workshop on Semantic and Social Media Adaptation and Personalization (SMAP).
- View on IEEEExplore.
- PDF available here.

### A Machine Learning Approach for Gender Identification of Greek Tweet Authors

*NOTION Workshop, PETRA'20*

Spiros Baxevanakis, Stelios Gavras, Despoina Mouratidis and Katia Lida Kermanidis

2020

- In the Proceedings of the 13th ACM International Conference on Pervasive Technologies Related to Assistive Environments, Interpretation and Understanding (PETRA Conference, NOTION Workshop).
- View on ACM Digital Library.
- PDF available here.