

# BILL PSOMAS

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## RESEARCH EXPERIENCE

### Doctoral Researcher

#### National Technical University of Athens

Oct 2020 -- now

Athens, GR

- Co-supervising undergraduate and master students.
- Teaching Deep Learning and Computer Vision at Advanced Remote Sensing master course.
- Projects:
  1. iToBoS: Intelligent Total Body Scanner for Early Detection of Melanoma, H2020
  2. RAMONES: Radioactivity Monitoring in Ocean Ecosystems, FET-H2020
  3. eOSD : An Intelligent Early-Warning Oil Spill Detection and Prediction System for the Arabian Gulf and the Red Sea, KAUST

### Computer Vision Engineer

#### Metargus

Dec 2020 -- now

Athens, GR

- Working on Computer Vision based Sport Analytics.
- Object Detection, Action Recognition, Video Production.

### Research Intern

#### Linkmedia Team, Inria Rennes Bretagne-Atlantique

Feb 2020 – June 2020

Rennes, FR

- Worked on Deep Metric Learning using PyTorch.
- Supervised by Research Scientist Yannis Avrithis.

### Research Associate

#### Athena Research and Innovation Center

Sept 2019 -- Feb 2020

Athens, GR

- Developed a Plant Identification App using Tensorflow.
- Supervised by Research Director Vassilis Katsouras.

## OTHER WORK EXPERIENCE

### Software Developer

#### MaP Ltd.

Mar 2018 -- Jul 2019

Athens, GR

- Developed a coordinate recognition and drawing system.
- Implemented CNNs for face and license plate detection and censoring.
- Developed the CrossClimate web map application.

### Geographic Information Systems Engineer

#### MaP Ltd.

Apr 2017 -- Sept 2017

Athens, GR

- Responsible for the acquisition, processing and analysis of urban data.

## EDUCATION

### PhD in Deep Learning for Computer Vision

#### National Technical University of Athens

Oct 2020 – now

Athens, GR

- Working on Representation Learning
- Advisors: Konstantinos Karantzas, Yannis Avrithis
- In collaboration with: Linkmedia Team Inria Rennes, valeo.ai, National Observatory of Athens, University of Crete

### MSc in Data Science and Information Technologies

#### National Kapodistrian University of Athens

Oct 2018 – Sep 2020

Athens, GR

- GPA: 9.6/10
- Internship: Linkmedia Team, Inria Rennes
- Thesis: Metric Learning: A Deep Dive
- Supervisor: Yannis Avrithis

### Diploma in Rural and Surveying Engineering

#### National Technical University of Athens

Sept 2012 – Feb 2018

Athens, GR

- GPA: 7.38/10
- Remote Sensing Lab NTUA
- Thesis: Investigation of Greek Character Automatic Recognition Methods in Ancient Epigraphic Images
- Supervisor: Demetre Argialas

## ONLINE COURSES

- Coursera
  - Deep Learning with Pytorch: Build a Neural Network.
  - Convolutional Neural Networks in Tensorflow.
  - Natural Language Processing in Tensorflow.
  - Introduction to Tensorflow for AI, ML and DL.
- Facebook
  - Intro to Deep Learning with Pytorch.
- Stanford
  - CS231n: Deep Learning for Computer Vision.
- IBM
  - Deep Learning Fundamentals with Keras.
  - Deep Learning with Tensorflow.

## HONORS & AWARDS

- 2021 Computational time grant in the Greek HPC facility ARIS under project PR009017. *GRNET*
- 2019 Industry 4.0 Crowdhackathon Finalist, Smart Glasses Application. *SEV*
- 2019 ESA Space App Camp Finalist, AI generated multiplayer mini-games. *ESA ESRIN*
- 2018 3rd place in Copernicus Hackathon in Athens, VR Video Game using Copernicus data. *ESA*

## SCIENTIFIC ACTIVITIES

- 2022 Reviewer at Transactions on Pattern Analysis and Machine Intelligence. *IEEE*
- 2021 Mentor at NASA Space Apps Challenge. *NASA*
- 2021 Participant in the ELLIS Doctoral Symposium. *ELLIS*
- 2021 Participant in the PRAIRIE/MIAI Artificial Intelligence Summer School. *PRAIRIE/MIAI, NAVER Labs, Inria*

## PUBLICATIONS

- 2022 What to Hide from Your Students: Attention-Guided Masked Image Modeling. (under review)
- 2021 It Takes Two to Tango: Mixup for Deep Metric Learning. *ICLR 2022*
- 2021 Deep Learning for Remote Sensing Image Downscaling: Fusion and Super-Resolution. *IEEE Geoscience & Remote Sensing Magazine*
- 2020 The drought-alert decision support system for water resources management. *Desalination and Water Treatment*

## TEACHING

- 2022 Deep Learning and Computer Vision lectures at Advanced Remote Sensing master course. Theory Slides + Google Colab Labs.

## SUPERVISION

- 2022 Diploma Thesis - Ioanna Gogousou Studying and Evaluating Self-supervised Learning Methods for Image Classification

## TECHNICAL SKILLS

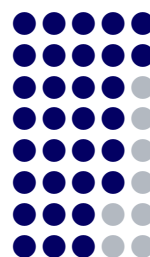
Deep Learning   Computer Vision   Research  
Data Science   Web Development  
Remote Sensing   Teaching

## SOFT SKILLS

Learning Potential   Team Work   Creativity  
Problem Solving

## PROGRAMMING SKILLS

Python  
Pytorch  
Tensorflow, Keras  
PowerShell, Bash/Zsh  
Latex, Markdown  
Git  
HTML, CSS, Javascript  
C++



## LANGUAGES

Greek  
English (C1)  
German (B1)  
Italian

