ALKIS KOUDOUNAS

Ph.D. Student @ Politecnico di Torino

@ alkis.koudounas@polito.it ✉ koudounasalkis.github.io ☎ +39 3932731499 ⚲ Turin, Italy
in linkedin/alkis-koudounas ⌨ github.com/koudounasalkis ✎ scholar.google/alkis-koudounas

EDUCATION

Ph.D., Computer Engineering, AI & ML

Politecnico di Torino, joint project with Amazon Alexa AI

📅 2022 – Today   ⚲ Turin, Italy

Research Topics: Spoken Language Understanding, Music Processing, Audio-Text Multi-modal Understanding, XAI

Expected graduation: November 2025

2023:
- Online Chair at ECML PKDD
- Presenting author at IEEE ICASSP, INTERSPEECH, EVALITA, IEEE AICT
- Attending Generative Modeling Summer School (GeMSS), Advanced Language Processing Winter School (ALPS), Synapse AI Symposium

2022:
- Presenting author at IEEE AICT, ACM Multimedia
- Attending Mediterranean Machine Learning (M2L) Summer School
- Volunteering at ACM Multimedia, ADBIS

M.Sc., Computer Engineering, Data Analytics

Politecnico di Torino, 110 cum Laude

📅 2019 – 2021   ⚲ Turin, Italy

Thesis: NN-Based Approach for Object Detection and 6 DoF Pose Estimation with ToF Cameras in Space

B.Sc., Computer and Automation Engineering

Università Politecnica delle Marche, 110 cum Laude

📅 2016 – 2019   ⚲ Ancona, Italy

Thesis: Gradient-based Learning Methods Extended to Smooth Manifolds Applied to Automated Clustering

WORK EXPERIENCE

M.Sc. Internship

Thales Alenia Space Italy

📅 May 2021 – Nov 2021   ⚲ Turin, Italy

Thesis research work on the development of a NN-based approach for Object Detection and 6 DoF Pose Estimation with ToF Cameras under the guidance of Eng. Andrea Merlo

Scholarship on "Data Science and Database Technology" Course

Politecnico di Torino

📅 October 2020 – January 2021   ⚲ Turin, Italy

Part-time collaboration with Politecnico di Torino

B.Sc. Internship

TUAT, Tokyo University of Agriculture and Technology

📅 March 2019 – May 2019   ⚲ Tokyo, Japan

Thesis research work on optimization algorithms under the guidance of professors Simone Fiori and Toshihisa Tanaka

ABOUT ME

I am a half Greek-half Italian Ph.D. student, deeply astonished by the mystic AI kingdom we are living. I love exploring problems and envisioning unseen solutions. I treasure listening to music, travelling and taking night-ish photos. I do relish space and the immensity that surrounds it.

"Ad Astra per Aspera"

TEACHING

Data Science Lab: Process and Methods

Teaching Assistant

📅 2022 – Today   ⚲ Politecnico di Torino

Data Science and Database Technology

Teaching Assistant

📅 2022 – Today   ⚲ Politecnico di Torino

OTHER EXPERIENCES

AYA Italian Language Ambassador
C4AI Community Project (Cohere)

NASA Space Apps Challenge 2022
2nd Prize: ρBerTO - *Predicting symptoms of possible Carrington Events*

1° The Sound of AI Hackathon 2022
"Most Marketable Solution" Prize: *CALM - Contrastive Alignment of Language and Music*

MALTO and RoboTO Teams
AI & ML

IEDC Ancona
IT and Technical Support

Scout Leader
Deputy head of AN2 group, Head of "Wolf Cubs", children aged 8-11

COMPUTER SKILLS

Python C++ Java C
PyTorch Transformers
TensorFlow (Learning) Jax (Learning)
HTML CSS Javascript React.js

LANGUAGES

Italian (Mother Tongue)
Greek
English
Spanish