

# ALKIS KOUDOUNAS

Ph.D. Student @ Politecnico di Torino

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## EDUCATION

### Ph.D., Computer Engineering

Politecnico di Torino, joint project with Amazon Alexa AI

November 2022 – Today Turin, Italy

- Research Topics: Fairness in End-to-End Spoken Language Understanding Systems, Speech and NLP models

### 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

### Scholarship for Research Activities

Politecnico di Torino

March 2022 – October 2022 Turin, Italy

- Research Topic: Fairness in End-to-End Spoken Language Understanding Systems
- Volunteering at ACM Multimedia 2022, 10-14 October 2022
- Activities: M2L Mediterranean Machine Learning Summer School, 12-16 September 2022
- Volunteering at ADBIS 2022, 5-8 September 2022

### M.Sc. Internship

Thales Alenia Space Italy

May 2021 – Nov 2021 Turin, Italy

- Thesis research work on 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

NASA Space Apps Challenge 2022  
2nd Prize

1° The Sound of AI Hackathon 2022  
"Most Marketable Solution" Prize

RoboTO Team  
AI & CV Division

IEDC Ancona  
IT and Technical Support

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

AESA Association  
Organization of space-related events

## COMPUTER SKILLS

Python C++ Java C

PyTorch Transformers  
TensorFlow (Learning) Jax (Learning)

HTML CSS Javascript React.js

## LANGUAGES

Italian (Mother Tongue)  
Greek  
English (B2)  
Spanish

