

# 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

Activities:

- Presenting and Volunteering at ACM Multimedia 2022
- Attending Mediterranean Machine Learning Summer School 2022
- Volunteering at ADBIS 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  
Spanish

