

# Constantinos Karouzos

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## Research Interests

Natural Language Processing, Machine Learning for NLP, Transfer Learning, Domain Adaptation, Unsupervised & Low-Resource Learning, NLP Applications, and Legal NLP.

## Education

### PhD student

*The University of Sheffield, Department of CS*

**Sheffield, UK**

09/2022-09/2026

- UKRI Center of Doctoral Training in Speech and Language Technologies and their Applications
- Focus: Efficient transfer learning for language models across many tasks.
- Supervisor: Prof. Nikos Aletras

### Integrated Master in Electrical and Computer Engineering

*National Technical University of Athens (NTUA), School of ECE*

**Athens, Greece**

09/2014-11/2020

- Grade: 8.4/10 (top 15%)
- Concentration: Computer Software & Computer Systems. - Minor: Management & Decision Support Systems.
- Thesis: Unsupervised Domain Adaptation for Natural Language Processing. - Supervisor: Prof. Alex Potamianos

### Erasmus Exchange Program

*Politecnico di Milano (Poli.Mi.)*

**Milan, Italy**

02/2018-07/2018

### High School

*Evangeliki Model High School of Smyrni*

**Athens, Greece**

06/2014

- Nationwide University Entrance Examination score: 19.37/20 (top 1%)

## Publications

[1]: **Karouzos C.**, Paraskevopoulos G., Potamianos A.

UDALM: Unsupervised Domain Adaptation through Language Modeling. NAACL 2021

[2]: Chatziagapi A., Sgouropoulos D., **Karouzos C.**, Melistas T., Giannakopoulos T., Katsamanis A., Narayanan S.

Audio and ASR-based Filled Pause Detection. ACII 2022

## Experience

### Machine Learning Engineer

*Behavioral Signals Technologies*

**Los Angeles, USA (remote)**

09/2021- 08/2022

- Developing deep learning speech models for emotion classification, behavioral recognition and hesitation detection.
- Working on automation of ML Operations (model training, testing, deployment, logging and monitoring).

### Soldier for Research and Informatics

*Hellenic Army General Staff*

**Athens, Greece**

11/2020- 07/2021

- Assisted in designing and managing mobilization digital applications.
- IT project management, communication, coordination and train of personnel, handle of technical issues.

### ML & NLP Research Assistant

*Speech & Language Processing group, NTUA*

**Athens, Greece**

10/2019- 11/2020

- Conducted research on ML for NLP and NLP Applications topics

### Lab Assistant

*Software Engineering Laboratory, NTUA*

**Athens, Greece**

10/2015 - 06/2017

- Assisted students during weekly Computer Programming and Programming Techniques modules lab sessions.

## Technical Skills

**Programming Languages:** Python, Bash, C, C++, Java, Javascript

**Machine Learning:** pytorch, huggingface, Scikit-Learn

**Web Development:** Angular, Material, HTML, CSS

## Natural Languages

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**English**(Fluent), **French**(Intermediate), **Italian**(Basic), **Greek**(Native)

## Awards

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**2021:** Thomaidio award for National Technical University of Athens students/recent alumni scientific publications.

**2014:** “The Great Moment of Education” scholarship by Eurobank EFG.

## Societies

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- Association for Computational Linguistics (ACL), Member
- Technical Chamber of Greece (TEE-TCG), Member
- IEEE, Member