

Constantinos Karouzos

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Research Interests

Large Language Models, Preference Tuning, Multiobjective and Fine-grained Preference Tuning, Learning from Diverse Human Feedback, Transfer Learning, Domain Adaptation, Numerical Reasoning, Legal NLP.

Education

PhD student in Natural Language Processing

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, preference tuning
- 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 - Computer Science and Engineering

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

Professional 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.

Research Assistant

Speech & Language Processing group, NTUA

Athens, Greece

10/2019- 11/2020

- Conducted research on ML for NLP and NLP Applications topics

Technical Skills

Expert: Python, Bash, pytorch, huggingface transformers

Familiar: C, C++, Java, Javascript, Tensorflow, JAX

Teaching

Graduate Teaching Assistant

Department of Computer Science, The University of Sheffield

- COM6513 Natural Language Processing, COM1005 Machines and Intelligence, COM6115 Text Processing, COM6655 Professional Issues

Sheffield, UK

10/2023 - 06/2024

Undergraduate Lab Assistant

Software Engineering Laboratory, NTUA

- 3.4.3020.1 Computer Programming, 3.4.3138.2 Programming Techniques

Athens, Greece

10/2015 - 06/2017

Reviewing Service

Conferences: ACL 2023-2024, EACL 2023-2024, NAACL 2024, COLING-LREC 2024, NeurIPS 2023, ICML 2024, ICLR 2024, AAAI 2025

Workshops: SustainNLP 2023, NLLP 2023, BioNLP 2024

Awards & Scholarships

2022-2026: University of Sheffield UKRI Centre for Doctoral Training in Speech and Language Technologies and their Applications Scholarship, covering international student tuition fees and stipend for living expenses during Ph.D.

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

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

Natural Languages

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