Georgios (Yiorgos) Chochlakis

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RESEARCH INTERESTS

Scalable multimodal & multilingual affective analysis on social media; language grounding and grounding language; leveraging language for zero-shot learning; scientific rigor and reproducibility

EDUCATION

University of Southern California (USC), Los Angeles, CA — 08/2021 – Present
MSc & PhD in Computer Science — (Expected Graduation) 05/2026
    Current GPA: **4.0**/4.0
    Advisor: Prof. Shri Narayanan

National Technical University of Athens (NTUA), Athens, Greece — 09/2015 – 10/2020
BSc & MEng in Electrical and Computer Engineering (5-year joint degree)
    Cumulative GPA: **9.56**/10.0 (98th percentile)
    Thesis advisor: Prof. Alexandros Potamianos

PROFESSIONAL EXPERIENCE

Applied Science Intern, AWS, Santa Clara, CA — 05/2023 – 08/2023
    Studied and proposed methods for robustness in audio-visual representation learning

Machine Learning Engineer, Behavioral Signals, Los Angeles, CA — 12/2020 – 07/2021
    Improved speaker identification in a call center to near-perfect accuracy
    Experimented with speaker features to perform caller matching and diarization
    Tested ML models on the cloud for deployment

Machine Learning Intern, SCiO, Lefkippos Attica Technology Park, Greece — 07/2019 – 08/2019
    Built dataset with relevant features and model for rice cultivation in India

PROJECTS

DARPA INCAS, Information Science Institute, USC, Los Angeles, CA — 09/2021 – Present
    Identifying meaningful early indicators of influence campaigns from social media
    Developing tools to handle multilingual data, and a novel annotation scheme
    My SOTA emotion recognition models ranked 1st among 3 teams in 2 evaluation phases
    Tools: python3.7, torch, transformers, git, scikit-learn

Diploma Thesis, NTUA, Greece — 03/2020 – 11/2020
    Examined the problem of zero-shot classification of images
    Integrated few-shot learning techniques to make zero-shot training end-to-end, achieving SOTA
    Tools: python3, torch, torchvision, git, scikit-learn

RESEARCH EXPERIENCE

Graduate Research Assistant, SAIL, USC, Los Angeles, CA — 05/2021 – Present
    Conducting research in multilingual and multimodal affective analysis on social media
    Developing scalable, generalizable, and robust models for emotion recognition

Undergraduate Research Assistant, SLP group, NTUA, Greece — 03/2020 – 11/2020
    Developed novel framework for generative zero-shot learning for my diploma thesis

Research Intern, IIT, NCSR Demokritos, Greece — 10/2019 – 06/2020
    Published research on elevation surface reconstruction using deep learning

Selected Publications

G. Chochlakis, G. Mahajan, S. Baruah, K. Burghardt, K. Lerman, S. Narayanan. _Using Emotion Embeddings to Transfer Knowledge between Emotions, Languages, and Annotation formats_. ICASSP, 2023.

G. Chochlakis, G. Mahajan, S. Baruah, K. Burghardt, K. Lerman, S. Narayanan. _Leveraging Label Correlations in a Multi-label Setting: A Case Study in Emotion_. ICASSP, 2023.

T. Srinivasan, T.Y. Chang, L.L.P. Alva, **G. Chochlakis**, M. Rostami, J. Thomason. _CLiMB: A Continual Learning Benchmark for Vision-and-Language Tasks_. NeurIPS, 2022.

Honors & Awards

Gerondelis Foundation Scholarship	2023
Top Reviewer, NeurIPS	2022
Highest GPA in school of ECE Award, Thomaidis Foundation Grant, NTUA	2019-2020
Publication Award, Thomaidis Foundation Grant, NTUA	2020

Academic Service

SAIL, USC, Los Angeles, CA

Founded and currently running the lab's 17-member reading group

Mentoring undergraduate and graduate student

IEEE K-12 Outreach program, USC, Los Angeles, CA

Served as _team lead_ for Fall 2022 USC campus visit for approx. 90 students

Presented introduction and a demo in Spring 2022 USC campus visit to approx. 90 students

Google ExploreCSR program, USC, Los Angeles, CA

Served as _student mentor_ for Spring 2023 for approx. 50 students

Peer-reviewing

NeurIPS 2023, Track Datasets and Benchmarks

ICASSP 2023

NeurIPS 2022, Track Datasets and Benchmarks