Georgios (Yiorgos) Chochlakis

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RESEARCH INTERESTS

Scalable multimodal & multilingual affective analysis on social media; language grounding and grounding language; modeling of subjective language tasks; 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)
  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)
  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
  Developed 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 SOTA models to handle multilingual data, and a novel annotation scheme

DARPA NEAT, USC, Los Angeles, CA — 05/2023 – Present
  Developing cognitive science tool to identify people at risk of suicide by preconscious brain signals
  Studying how linguistic stimuli modulate brain responses

Everyday Respect, USC, Los Angeles, CA — 12/2022 – Present
  Measuring & improving police officer communication during motor vehicle stops

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	2023-2024
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 students

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

ICASSP 2024, 2023

NeurIPS 2023, 2022 (Datasets and Benchmarks)