

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

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 model ranked 1st in all accuracy metrics among 3 teams

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*. Under review.

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*. Under review.

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*. In press in NeurIPS 2022.

HONORS & AWARDS

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

Actively mentoring 1 graduate and 2 undergraduate 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

Peer-reviewing

NeurIPS 2022, Track Datasets and Benchmarks: 3 papers