

# Georgios (Yiorgos) Chochlakis

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## RESEARCH INTERESTS

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

## EDUCATION

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**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

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**Applied Science Intern**, AWS, Santa Clara, CA 05/2023 – 08/2023  
Coming up...

**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

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**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

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**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

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- 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

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| <b>Top Reviewer</b> , NeurIPS  | 2022      |
| <b>Highest GPA in school of ECE Award</b> , Thomaidis Foundation Grant, NTUA | 2019-2020 |
| <b>Publication Award</b> , Thomaidis Foundation Grant, NTUA                  | 2020      |

## ACADEMIC SERVICE

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### **SAIL**, USC, Los Angeles, CA

- Founded and currently running the lab's 17-member reading group
- Actively mentoring 2 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

### **Google** ExploreCSR program, USC, Los Angeles, CA

- Serving as *student mentor* for Spring 23 for approx. 50 students

### **Peer-reviewing**

- NeurIPS 2022, Track Datasets and Benchmarks: 3 papers
- ICASSP 2023: 1 paper