

# 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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**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 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

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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

## PUBLICATIONS

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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, Track Datasets and Benchmarks

**G. Chochlakis**, E. Panagiotou, L. Grammatikopoulos, E. Charou. *Generating Elevation Surface from a Single RGB Remotely Sensed Image using Deep Learning*. Remote Sensing, 12(12):2002, June 2020

## AWARDS

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<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 1 graduate and 2 undergraduate students

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

Currently serving as *team lead* for Fall 2022 USC campus visit for approx. 100 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