

# EFTHYMIOS (THEMIS) TSAPRAZLIS

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## RESEARCH INTERESTS

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Privacy-Preserving ML, Vision-Language, Generative AI, Computer Vision, Natural Language Processing

## EDUCATION

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**University of Southern California** Aug 2024 - present  
PhD in Computer Science, advised by Prof. [Shrikanth Narayanan](#) *Los Angeles CA, USA*

**National Technical University of Athens** Sep 2018 - July 2024  
BSc and MEng in Electrical and Computer Engineering *Athens, Greece*  
Thesis: *Enhancing contrastive language-vision pre-training with generative dialogue*, supervised by Prof. [Petros Maragos](#)

## RESEARCH EXPERIENCE

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**Signal Analysis and Interpretation Lab, USC** Aug 2024 - present  
Graduate Research Assistant *Los Angeles CA, USA*

**University of Texas at Austin** Nov 2022 - Aug 2024  
Research Student *Austin TX, USA*  
Performed research on contrastive learning for vision-language pretraining advised by Prof. [Alex Dimakis](#).

**Computer Vision and Signal Processing Group, NTUA**  
**Robot Perception and Interaction Unit, Athena RC** Jan 2024 - July 2024  
Research Assistant *Athens, Greece*  
Performed research on lifelong learning for robotic agents as part of the PILLAR-Robots project.

**National Technical University of Athens** Nov 2022 - July 2024  
Undergraduate Research Assistant *Athens, Greece*  
Performed research on self-supervision and contrastive learning.

**NCSR "DEMOKRITOS"** Sep 2022 - Nov 2022  
Research Intern *Athens, Greece*  
Developed an end-to-end framework for multimodal sentiment analysis.

## PROFESSIONAL EXPERIENCE

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**Workable Software** Oct 2023 - Dec 2023  
Machine Learning Engineer Intern *Athens, Greece*  
Performed research on visual information extraction on documents such as resumes and CVs.

## PUBLICATIONS

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- **Efthymios Tsaprazlis**, Georgios Smyrnis, Alex Dimakis, and Petros Maragos. Enhancing CLIP with a Third Modality. *In NeurIPS 2023 Workshop: Self-Supervised Learning - Theory and Practice*, 2023.

## SUMMER SCHOOLS

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### **Lisbon Machine Learning School (LxMLS) 2022**

Jul 2022

Instituto Superior Technico (IST)

*Lisbon, Portugal*

Topics: *Probability Theory & Linear Algebra, Linear Classifiers, Neural Networks, Sequence Models, Neural Structured Models, Causality.*

### **EIT Digital Platforms for Industry 4.0**

Jul 2021 - Aug 2021

Technical University of Munich

*Munich, Germany*

Developed a video surveillance framework for industrial environments monitoring with computer vision.

## SKILLS

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### **Programming Languages**

**Python**, MATLAB /SIMULINK, C/C++, SQL,

### **Tools**

**PyTorch**, Bash, Jupyter, Git, TensorFlow

### **Languages**

English(Fluent), Greek(Native)

## VOLUNTEERING

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**IEEE ICASSP 2023 Student Volunteer:** Served as a student volunteer in the IEEE 48th International Conference on Acoustics, Speech, and Signal Processing (ICASSP), Rhodes (2023).