EFTHYMIOS (THEMIS) TSAPRAZLIS

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RESEARCH INTERESTS

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

EDUCATION

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

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, U SA*
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

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

TALKS

1. **4th Annual Symposium of USC-Amazon Center**
   Talk: *Assessing Visual Privacy with VLMs*
   May 2025, Los Angeles, CA

PUBLICATIONS

- Panagiotis P Filntisis, **Efthymios Tsaprazlis**, Paraskevas Oikonomou, Francesco Mattioli, Vieri Giuliano Santucci, George Retsinas, and Petros Maragos. Towards Open-ended Robotic Exploration using Vision-Inspired Similarity and Foundation Models. *2025 IEEE International Conference on Robotics and Automation (ICRA), Atlanta, USA*, 2025.

- **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

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

Programming Languages	**Python**, MATLAB /SIMULINK, C/C++, SQL,
Tools	**PyTorch**, Bash, Jupyter, Git, TensorFlow
Languages	English(Fluent), Greek(Native)

VOLUNTEERING

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).