

# EFTHYMIOS (THEMIS) TSAPRAZLIS

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## ABOUT ME

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Senior Electrical and Computer Engineering student at NTUA focusing on Information Technology. Passionate about Machine Learning, Computer Vision and Natural Language Processing. Well-versed in programming languages such as Python and MATLAB. Strong background in mathematics, machine learning and completing projects. Currently performing research on multimodal aspects of contrastive learning as part of my diploma thesis.

## EDUCATION

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**MEng in Electrical and Computer Engineering**, National Technical University of Athens Expected 2024

- Major in Machine Learning and Signal Processing
- Major in Computer Systems
- Minor in Software Engineering

## RESEARCH EXPERIENCE

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**Computer Vision and Signal Processing Group, NTUA**

**Robot Perception and Interaction Unit, Athena Research Center**

Research Assistant

Jan 2024 - present

*Athens, Greece*

- Performing research on Lifelong Learning for robotic agents as part of the PILLAR-Robots project.

**University of Texas at Austin**

Research Student

Nov 2022 - present

*Austin TX, USA*

- Machine Learning Lab (MLL) External Collaborator.
- Performing research on Contrastive Learning for VLP (Vision-Language Pretraining).

**National Technical University of Athens**

Undergraduate Research Assistant

Nov 2022 - present

*Athens, Greece*

- Member of Computer Vision, Speech Communication and Signal Processing Lab (CVSP).
- Performing research on Self-Supervision and Contrastive Learning.
- Research co-advised by University of Texas at Austin.

**National Centre for Scientific Research "DEMOKRITOS"**

Research Intern

Sep 2022 - Nov 2022

*Athens, Greece*

- Member of Multimodal Analysis Group (MagCIL) of the Computational Intelligence Laboratory at Institute of Informatics and Telecommunications.
- Worked on End-to-End Multimodal Sentiment Systems.
- Created a simple framework with implementations of deep multimodal learning models for sentiment analysis.
- Performed feature extraction using various techniques and wrote training and evaluation code.

## PUBLICATIONS

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

## PROFESSIONAL EXPERIENCE

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### Workable Software

Oct 2023 - Dec 2023

Machine Learning Engineer Intern

*Athens, Greece*

- Member of Data Science Department.
- Performing research on visual information extraction on documents such as resumes and CVs.

## 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*

- Applied Computer Vision and Deep Learning models for video surveillance on industrial environments.
- Created a business model and business use-cases.

## SKILLS

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### Programming Languages

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

### Tools

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

### Theoretical Knowledge

Machine Learning, Deep Learning, Multimodal Learning, Computer Vision, Natural Language Processing, Contrastive Learning, Algorithms

### 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).

**IEEE Computer Society NTUA** : Member of the Machine Learning team (2022 - 2023).

**IEEE Robotics and Automation Society NTUA** : Member of RAS (2020 - 2022).