

# 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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**University of Texas at Austin** Nov 2022 - present  
Research Student *Austin TX, USA*

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

**National Technical University of Athens** Nov 2022 - present  
Undergraduate Research Assistant *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"** Sep 2022 - Nov 2022  
Research Intern *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 - present  
Machine Learning Engineer *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

Instituto Superior Technico (IST)

Jul 2022

*Lisbon, Portugal*

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

### EIT Digital Platforms for Industry 4.0

Technical University of Munich

Jul 2021 - Aug 2021

*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

### Tools

### Theoretical Knowledge

### Languages

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

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

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

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).