

Sifakis Manos

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EXPERIENCE

- **University of Crete** September 2023 - March 2025
Graduate Research Assistant Heraklion, Greece
 - Conducted research in the [Speech Signal Processing Lab](#).
 - Applied Machine Learning Methods to Music Information Retrieval tasks.
 - Shared research progress and collaborated closely with academic peers.
- **University of Patras** September 2019 - February 2021
Research and Development Software Engineer Patras, Greece
 - Conducted research in the [Audio Group](#).
 - Analyzed 3D audio with Ambisonics for binaural rendering.
 - Performed perceptual evaluation experiments

EDUCATION

- **University of Crete** September 2022 - March 2025
Master of Science (M.Sc.) - Computer Engineering Heraklion, Greece
 - Grade: 9.29/10
- **University of Patras** September 2015 - April 2022
Integrated Master of Engineering (M.Eng.) - Electrical and Computer Engineering Patras, Greece
 - Grade: 7.44/10

PROJECTS

- **Deep Learning for Source Separation & Transcription of Cretan Lyra Music** September 2023 - December 2025
Supervised: Dr. André Holzapfel (KTH) & Prof. Yiannis Stylianou (UoC), SSPL Lab [\[🔗\]](#)
 - Developed a two-stage ML system, Source Separation and Automatic Music Transcription,
 - Achieved state-of-the-art results in fidelity benchmarks against SOUSTA Corpus and Logic Pro X.
 - Developed customer-facing [DEMO](#) with plans for real-time Cretan lyra separation/transcription app.
 - Key Impact:* • First ML-driven Cretan lyra transcription system. • Cultural heritage preservation.
- **Spectral Super-Resolution via Sparse Dictionary Learning** September 2023 - February 2024
Supervised: Dr. Grigorios Tsagkatakis (UoC) | Collaborator: Stelios Perrakis [\[🔗\]](#)
 - Developed BFGS-optimized sparse dictionary learning for hyperspectral image reconstruction
 - Implemented coupled dictionary learning framework achieving resolution improvement
 - Key Impact:* • Direct application to remote sensing and spectral imaging

PUBLICATIONS

- Holzapfel, A., & Sifakis, E. (2024). "[How Many Engineers Does it Take to Transcribe a Cretan Dance Tune? Exploring the Potential of Machine Learning for Automatic Transcription](#)." Presented at the 10th International Conference on Analytical Approaches to World Music (AAWM 2024), June 10-14, 2024, Bologna, Italy.

SKILLS

- **Programming Languages:** Python, PyTorch, Jupyter Notebooks, SQL, MATLAB, C, JavaScript, HTML
- **ML/AI:** Natural Language Processing, Speech Signal Processing, Machine Learning, Computer Vision
- **Development:** Testing methodologies, Research collaboration
- **Software & Creative Tools:** Adobe Illustrator, Photoshop, Davinci Resolve, Blender

ADDITIONAL INFORMATION

Languages: Greek (Native), English (C2 Proficiency), French (B2)
Interests: Music Performance (Piano, Guitar), Graphic Design & Logo Creation, Video Editing (Short Films, Intros)
Military Service: Completed mandatory service in the Hellenic Army, 80 NGHC-HQ (Kos, Greece, 2025)