

Themos Stafylakis

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CURRENT POSITIONS

Associate Professor, Dept. of Informatics — AUEB	10/2024 – present
Director, MSc in AI & Data Science — AUEB	01/2025 – present
Director, Information Processing Laboratory — AUEB	10/2024 – present
Conversational AI Architect — Omilia	08/2018 – present
Affiliated Researcher — Archimedes / Athena Research Center	10/2024 – present

EDUCATION

Ph.D. — Speaker Clustering & Diarization, National Technical University of Athens	2011
Thesis: "Novel Bayesian Clustering Techniques with Applications to Speaker Diarization"	
M.Sc. — Communications & Signal Processing, Imperial College London	2005
Thesis: "Overcomplete Audio Source Separation"	
Diploma — Electrical & Computer Engineering, National Technical University of Athens	2004
Thesis: "Real-Time Audio Processing for Room Calibration"	

RESEARCH & INDUSTRIAL EXPERIENCE

Conversational AI Architect — Omilia	08/2018 – present
Led R&D; in ML for NLU and voice biometrics; managed collaborations with Brno UT, Eurecom, Imperial College London, and AUEB.	
Scientific Collaborator — National & Kapodistrian University of Athens	03/2022 – 07/2024
Taught "Speech Synthesis & Recognition" and "Dialog Systems" at the MSc in Language Technology (ILSP / Athena R.C.).	
Marie Curie Research Fellow — University of Nottingham, UK	06/2016 – 06/2018
EU project TalkingHeads (DLC-706668). Deep learning for audiovisual speech recognition; host: Dr George Tzimiropoulos.	
Postdoctoral Researcher — CRIM & ÉTS, Montréal, Canada	10/2011 – 04/2016
Speaker recognition and voice biometrics; supervised by Dr Patrick Kenny (CRIM) and Prof. Pierre Dumouchel (ÉTS).	
PhD Researcher — NTUA & ILSP / Athena R.C., Athens	08/2005 – 03/2011
Bayesian speaker clustering and diarization for broadcast news.	

AWARDS & HONOURS

Best Paper Award — Odyssey 2024	2024
Speaker & Language Recognition Workshop, Québec City. "Do End-to-End Neural Diarization Attractors Need to Encode Speaker Characteristic Information?"	
Marie Skłodowska-Curie Individual Fellowship	2016
European Commission, Horizon 2020. EU project TalkingHeads (DLC-706668) — audiovisual speech recognition, University of Nottingham.	

RESEARCH INTERESTS

- Speaker recognition & voice biometrics (embeddings, PLDA, end-to-end verification, anti-spoofing)
- Self-supervised learning for speech (HuBERT, Wav2Vec 2.0, WavLM; parameter-efficient fine-tuning)
- Audiovisual speech recognition & lipreading; multimodal deep learning
- Neural speaker diarization (end-to-end, Perceiver-based attractor models)
- Speech emotion recognition; NLP and spoken language understanding

RESEARCH GRANTS & PROJECTS

EloquenceAI	ongoing
EU-funded project on automatic design of conversational models from human-to-human conversation data. Partners: Telefonica I+D, BUT Speech, Omilia, Idiap, and others.	
ESPERANTO — Exchanges for Speech Research and Technologies	2022 – 2025
EU collaborative project. Led speech-to-speech translation work at the JSALT 2022 workshop, Johns Hopkins University.	
TalkingHeads — Audiovisual Speech Recognition (Marie Curie, Horizon 2020)	2016 – 2018
Individual fellowship at University of Nottingham. Deep learning methods for audiovisual ASR.	

TEACHING

Machine Learning (BSc) · Signals, Systems & DSP (BSc) · Deep Learning (MSc)	10/2024 – present
AUEB, Dept. of Informatics	
"Speech Synthesis & Recognition" · "Dialog Systems"	03/2022 – 07/2024
NKUA — MSc in Language Technology	

ACADEMIC SERVICE

Reviewer
IEEE/ACM Transactions on Audio, Speech and Language Processing (TASLP); Interspeech; IEEE ICASSP; IEEE/CVF CVPR; ICCV; ECCV.
Area Chair / Senior Reviewer
Interspeech; IEEE ICASSP.
Co-organizer
Athens NLP Summer School (AthNLP) — annual summer school on NLP & ML, Athens, Greece. Editions: 2024, 2025, 2026.
Invited Tutorials
ACAI/ESSAI 2024 (Athens) — self-supervised learning for speech; Conversational AI Reading Group, Mila / Concordia University (2025).

LANGUAGES

Greek (native) · English (fluent) · French (working proficiency)