ATHANASIOS (NASSOS) KATSAMANIS

Research Engineer

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EXPERIENCE

Principal Researcher
ATHENA R.C.

📅 Feb 2019 – Ongoing   📍 Athens, Greece

- Doing research on multimodal speech processing, multimodal interfaces, and human behavior modeling.
- Principal investigator in a national research project on speech pathologies (PLan-V) and projects with big industrial partners (Cosmote) or startups (Behavioral Signals, soniphi).
- Leading the R&D group working on automated dialog systems.

VP of Engineering
Behavioral Signals

📅 Dec 2016 – Ongoing   📍 Los Angeles, CA

- Leading the design and implementation of R&D activities related to the company's main product, namely an engine for emotion recognition from speech.
- Inventor of a methodology to behaviorally analyze human conversations (applied for patent in 2019, review is in progress).
- Member of the executive team, actively participating in company's efforts to attract investment.

Cofounder and CTO
beenotes

📅 Jan 2015 – Nov 2016   📍 Athens, Greece

- Led the design and implementation of the company's R&D plan
- Incorporated automatic speech recognition and synthesis technologies into the company's products. Developed an automated dialog system as an application for mobile phones.

Research Associate
ATHENA R.C.

📅 Mar 2013 – Jul 2016   📍 Athens, Greece

- Did research and supervised graduate students on various research themes, including keyword detection in speech, distant speech recognition in smart homes, and emotion recognition from speech.

Postdoctoral Research Associate
Univ. of Southern California

📅 Oct 2009 – Apr 2012   📍 Los Angeles, CA

- Did research and supervised graduate students in various research projects related to speech technologies, virtual agents, and emotion recognition.

LIFE PHILOSOPHY

"If you have built castles in the air, your work need not be lost; that is where they should be. Now put the foundations under them." (H.D. Thoreau)

MOST PROUD OF

Works citing my research
I have 72 publications in international peer-reviewed journals and conferences with more than 2000 citations in total

Participation in Research Projects
I have participated in 14 national and international research projects in Greece and in the US, as a principal investigator (1), research associate (8), or research assistant (5)

Scholarships and awards
I have been awarded 3 scholarships (Onassis Public Foundation, Greek National Scholarship Organization) for my studies and research and 2 awards for exceptional performance during my studies

Open Source Software
I have developed sailalign, an open-source software for speech-text alignment, that has been used by more than 100 research groups worldwide

EDUCATION

PhD, Electrical and Computer Engineering
National Technical University of Athens

📅 Dec 2003 – Jun 2009

Dipl. Eng., Electrical and Computer Engineering
National Technical University of Athens

📅 Sep 1998 – Oct 2003

PUBLICATIONS

📄 Journal Articles

- Tsiami, Antigoni, Petros Koutras, et al. (2019). "A behaviorally inspired fusion approach for computational audiovisual saliency modeling". In: *Signal Processing: Image Communication* 76, pp. 186–200.

- Filntisis, Panagiotis Paraskevas et al. (2017). "Video-realistic expressive audio-visual speech synthesis for the Greek language". In: *Speech Communication* 95, pp. 137–152.

- Rodomagoulakis, Isidoros, Athanasios Katsamanis, et al. (2017). "Room-localized spoken command recognition in multi-room, multi-microphone environments". In: *Computer Speech & Language* 46, pp. 419–443.

- Gibson, James, Athanasios Katsamanis, Francisco Romero, et al. (2015). "Multiple instance learning for behavioral coding". In: *IEEE Transactions on Affective Computing* 8.1, pp. 81–94.

- Lee, Chi-Chun, Athanasios Katsamanis, Matthew P Black, Brian R Baucom, Andrew Christensen, et al. (2014). "Computing vocal entrainment: A signal-derived PCA-based quantification scheme with application to affect analysis in married couple interactions". In: *Computer Speech & Language* 28.2, pp. 518–539.

- Narayanan, Shrikanth, Asterios Toutios, et al. (2014). "Real-time magnetic resonance imaging and electromagnetic articulography database for speech production research (TC)". in: *The Journal of the Acoustical Society of America* 136.3, pp. 1307–1311.

- Black, Matthew P, Athanasios Katsamanis, et al. (2013). "Toward automating a human behavioral coding system for married couples' interactions using speech acoustic features". In: *Speech communication* 55.1, pp. 1–21.

- Metallinou, Angeliki, Athanasios Katsamanis, and Shrikanth Narayanan (2013). "Tracking continuous emotional trends of participants during affective dyadic interactions using body language and speech information". In: *Image and Vision Computing* 31.2, pp. 137–152.

- Metallinou, Angeliki, Martin Wollmer, et al. (2012). "Context-sensitive learning for enhanced audiovisual emotion classification". In: *IEEE Transactions on Affective Computing* 3.2, pp. 184–198.

- Katsamanis, Athanassios, George Papandreou, and Petros Maragos (2009). "Face active appearance modeling and speech acoustic information to recover articulation". In: *IEEE Transactions on Audio, Speech, and Language Processing* 17.3, pp. 411–422.

- Papandreou, George et al. (2009). "Adaptive multimodal fusion by uncertainty compensation with application to audiovisual speech recognition". In: *IEEE Transactions on Audio, Speech, and Language Processing* 17.3, pp. 423–435.

📗 Chapters in Books

- Katsamanis, Athanasios, Vassilis Pitsikalis, et al. (2017). "Multimodal gesture recognition". In: *The Handbook of Multimodal-Multisensor Interfaces: Foundations, User Modeling, and Common Modality Combinations-Volume 1*, pp. 449–487.

- Pitsikalis, Vassilis, Athanasios Katsamanis, et al. (2017). "Multimodal gesture recognition via multiple hypotheses rescoring". In: *Gesture Recognition*. Springer, Cham, pp. 467–496.

REFEREES

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✉ shri@ee.usc.edu