

Eleni Vlahou



Contact

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Languages

Greek (native)
English (near-native)
German (elementary)

Programming

R programming
Language
Python
C#
L^AT_EX
Matlab
DMDX
Praat
Gimp
Unity
Blender

Research interests

- Gamification and virtualization for speech perception assessment and enhancement
- Perceptual learning and cognitive/brain training
- Neural correlates of speech perception (EEG, MEG)

Education

- 2012–2014 **PhD** in Cognitive Neuroscience, Universität Ulm, Ulm, Germany.
- 2005–2007 **MSc** in Cognitive Science, UOA, Athens.
- 1997–2002 **BSc** in Psychology, Panteion University, Athens.

Research and teaching experience

- **2019–today** University of Thessaly Athens, Greece
 - WP leader of project SAV (see “Research Projects and Awards”).
 - Principal Investigator of project IMPEL (see “Research Projects and Awards”).
 - Instructor of undergraduate courses entitled «Behavioral Determinants» and “Social Determinants”, *Department of Public and One Health, University of Thessaly* (spring semester).
 - Instructor of undergraduate course entitled «Cognitive Psychology and Educational Practice», Department of Mathematics, University of Thessaly (fall semester).
 - Guest lecturer for graduate course entitled “Tools and Applications for the Development of Educational Software” (spring semester) and “Special Issues in Neuroscience” (fall and spring semester). Department of Computational Bioinformatics, University of Thessaly.
- **2016–2018** Brain Training Center, University of California, Riverside Riverside, CA
 - Visiting researcher (Marie Curie Fellow, Experienced Researcher), EU program ALT: Adaptation, learning and training for spatial hearing in complex environments (H2020-MSCA-RISE-2015).
- **2017** COMPNET, Boston University Boston, MA
 - Visiting researcher (Marie Curie Fellow, Experienced Researcher), EU program ALT: Adaptation, learning and training for spatial hearing in complex environments (H2020-MSCA-RISE-2015).
- **2013–2018** Perception and Cognition Lab, Safarik University of Košice Košice, Slovakia
 - Post-doc researcher.
- **2013** Department of Psychology, University of California, Riverside Riverside, CA
 - Visiting researcher (Marie Curie Fellow, Early Stage Researcher), Project: Learn 2 Hear & See: Perceptual, Contextual, and Cross-modal Learning in Hearing and Vision (FP7-PEOPLE-2009 IRSES).
- **2012** Universität Ulm, Germany Ulm, Germany
 - Co-instructor (with Dr. Winfried Schlee) for undergraduate course “Research Methods in Psychology” (fall semester).
- **2008–2011** Institute for Language and Speech Processing, R.C. “ATHENA” Athens, Greece

- (Early Stage Researcher) EU program Long Lasting Memories (CIP/ICT PSP/2008/1).
- **2008 National and Kapodistrian University of Athens** Athens, Greece
 - Teaching assistant for graduate course entitled “Cognitive Models” Intergraduate Program on Basic and Applied Cognitive Science, University of Athens, Greece

Research Projects and Awards

- **2023-2027 WP leader of project** «SAV – Spatial Audio Virtualization and Gamification for Hearing Assessment and Enhancement», **HORIZON-MSCA-2022-SE-01-01**. **Project budget: € 496800.**
- **2021-2024 Principal Investigator of project** «IMPEL – Immersive Perceptual Learning in Complex Listening Environments», **Hellenic Foundation for Research and Innovation**, “2nd Call for H.F.R.I. Research Projects to Support Post-Doctoral Researchers”. **Project budget: € 143400.**
- **2019 -2020 Scholarship under the Operational Programme “Human Resources Development, Education and Lifelong Learning”** in the context of the project “Reinforcement of Postdoctoral Researchers – 2nd Cycle” (MIS-5033021), implemented by the State Scholarships Foundation (IKY).
- **2016 – 2018 ALT - Adaptation, learning and training in complex listening environments (EU H2020-MSCA-RISE-2015)**
 - Participation in the grant proposal.
 - Development of perceptual training software, statistical analyses, preparation of scientific manuscripts, workshop organization.
- **2016 – 2018 TINNET - Better Understanding the Heterogeneity of Tinnitus to Improve and Develop New Treatments (EU COST program - BM1306)**
 - Short-term scholarship for the development of software for tinnitus, at Universität Ulm, Germany.
- **2013 – 2014 Learn 2 Hear & See: Perceptual, Contextual, and Cross-modal Learning in Hearing and Vision (MC-IRSES)**
 - Development of perceptual training software, statistical analyses, preparation of scientific manuscripts, workshop organization.
- **2015 – 2016 Scholarship from the National Scholarship Programme of the Slovak Republic for Researchers.** Host: UPJS, Košice, Slovakia
 - Research Project: “Behavioral and neural correlates of phonetic adaptation to reverberation”.
- **2015 Travel Award.** Sponsor: Association for Research in Otolaryngology.
 - Postdoctoral Fellow Travel Award for participation to the 38th Meeting of the Association for Research in Otolaryngology, Baltimore, February 21-25.
- **2012 Scholarship from IKY – DAAD, Program IKYDA for the exchange and collaboration between Greece and Germany.** Host: Universität Ulm
 - Project: “Age-related changes in resting state MEG recordings. Associations with cognitive performance. Effects of cognitive and physical training”.
- **2009 – 2012 LLM - Long Lasting Memories. ICT Policy Support Programme (ICT PSP)**
 - Adaptation (in Greek) of perceptual/cognitive training exercises from the BrainFitness software (Posit Science).
- **2009 Student Travel Award** Sponsor: Acoustical Society of America
 - International Student Travel Award for participation to the 157th Meeting of the Acoustical Society of America (Workshop on Cross-language Speech Perception), Portland, May 18-22.

Publications

* Titles in square brackets indicate work in the Greek language

International peer-reviewed scientific journals

- Tsironis, A. Vlahou, E., Kontou, P., Bagos, P., & Kopčo, N. (2024). Adaptation to reverberation for speech perception: A systematic review. *Trends in Hearing* (in press).
- Vlahou, E. L., Ueno, K., Shinn-Cunningham, B. & Kopčo, N. (2021). Calibration of consonant perception to room reverberation. *Journal of Speech, Language and Hearing Research*. doi.org/10.1044/2021_JSLHR-20-00396.
- Vlahou, E. L., Seitz, A. R & Kopčo, N. (2019). Nonnative implicit phonetic training in multiple reverberant environments. *Attention, Perception & Psychophysics*. doi.org/10.3758/s13414-01901680-0.
- Vlahou, E., Thurm, F., Kolassa, I.-T., & Schlee, W. (2014). Resting-state slow wave power, healthy aging and cognitive performance. *Scientific Reports*, 4: 5101.
- Protopapas, A., Vlahou, E. L., Moirou, D., & Ziaka, L. (2014). Word reading practice reduces Stroop interference in children. *Acta Psychologica*, 148: 204–208.
- Vlahou, E. L., Protopapas, A., & Seitz, A. R. (2012). Implicit training of non-native speech stimuli. *Journal of Experimental Psychology: General*, 141: 363–381.
- Seitz, A. R., Protopapas, A., Tsushima, Y., Vlahou, E. L., Gori, S., Grossberg, S., & Watanabe, T. (2010). Unattended exposure to components of speech sounds yields same benefits as explicit auditory training. *Cognition*, 115: 432–443.
- Protopapas, A., & Vlahou, E. L. (2009). A comparative quantitative analysis of Greek orthographic transparency. *Behavior Research Methods*, 41: 991–1008.

Greek peer-reviewed scientific journals

- Βλάχου Ε. (2017). Η Βιομηχανία της νοητικής ενδυνάμωσης. *Κρίση*, 1:11-20. <https://doi.org/10.5281/zenodo.11152133>.

Conference proceedings

- Ziaka, L., Moirou, D., Markatou, A., Vlahou, E. L., & Protopapas, A. (2013). Word Reading Practice Reduces Stroop Interference in Children. 35th Annual Meeting of the Cognitive Science Society. Berlin, DE, 31 July–3 August.

Other publications

- Βλάχου, Ε. (2024). Ακραίες υποχωρήσεις μέσω ενός ιδιότυπου βιολογισμού. Εφημερίδα Εποχή. <https://www.epohi.gr/article/49024/kke-akraies-yphorhseis-meso-enos-idiotypou-viologismoy>
- Vlahou, E. L. (2010). Cognitive training: Current trends and propositions for the LLM service. Article at the webpage of the EU project “Long Lasting Memories” (project 238904).

Reviewing and editorial Activities

- Reviewer in Greek and international peer-reviewed scientific journals (e.g., *Brain Topography*, *Scientific Reports* etc.)
- Member of the Editorial Board of Biannual Scientific Review *KRISI*, Greece

Scientific Conferences

- **Vlahou, E. (2024).** Talk title: [Gamified Software for the Assessment and Enhancement of Speech Perception in Complex Listening Environments]. Half-day conference on “Assessment and Enhancement of Auditory Perception with Gamified Software”, 06 June, Department of Public and One Health, University of Thessaly, Greece.
- **Vlahou, E. (2024).** Talk title: Exploring Auditory Selective Attention in Gamified cocktail party Settings. 5th Workshop and lecture series on “Cognitive neuroscience of auditory and cross-modal perception”, 15–17 April, Košice, Slovakia.
- **Tsironis, A., Vlahou, E., Kontou, P., Kopčo, N. & Bagos, P. (2022, October 5–9).** Talk Title: [Adaptation to Reverberation for Speech Perception: A Systematic Review]. 18^o Panhellenic Conference for Psychological Research, Athens. <https://www.elpse2022.gr/program>
- **Kopčo, N., & Vlahou, E. (2019).** Talk title: Adaptation to Reverberation in Speech and Distance Perception. 4th Workshop and lecture series on “Cognitive neuroscience of auditory and cross-modal perception”, 3–5 June, Košice, Slovakia.
- **Vlahou, E., Seitz, A. & Kopčo, N. (2019).** Poster title: Gamifying Perceptual Training in Complex Listening Environments. 4th Workshop and lecture series on “Cognitive neuroscience of auditory and cross-modal perception”, 3–5 June, Košice, Slovakia.
- **Vlahou, E., Kopčo, N., Ueno, K., & Shinn-Cunningham, B.G. (2017).** Poster title: The benefit of exposure to consistent reverberation varies across rooms and phonemes. 3rd Workshop and lecture series on “Cognitive neuroscience of auditory and cross-modal perception”, 29–31 May, Košice, Slovakia.
- **Vlahou, E., Seitz, A., & Kopčo, N. (2015).** Poster title: Nonnative phonetic category training in varying acoustic environments. 169th Meeting of the Acoustical Society of America. Pittsburgh, Pennsylvania, US, 21–25 May.
- **Kopčo, N., Vlahou, E., Kanako, U., & Shinn-Cunningham, B. (2015).** Poster title: Exposure to consistent room reverberation facilitates consonant perception. 38th Annual MidWinter Meeting of the Association for Research in Otolaryngology. Baltimore, Maryland, US, 21–25 February.
- **Vlahou, E. L., Seitz, A. R., & Kopčo, N. (2014).** Poster title: Adaptation to room reverberation in nonnative phonetic training. 37th Annual MidWinter Meeting of the Association for Research in Otolaryngology. San Diego, California, US, 21–25 February.
- **Ziaka, L., Moirou, D., Vlahou, E. L., & Protopapas, A. (2013).** Talk title: Word reading practice reduces Stroop interference in children. 4th Panhellenic Conference for Cognitive Science, Athens, June 6-8.
- **Protopapas, A., Moirou, D., Markatou, A., & Vlahou, E. L. (2011).** Effects of practice on the relation of reading to color naming and interference. 18th Annual Meeting of the Society for the Scientific Study of Reading. Florida, US, 13–16 July.
- **Vlahou, E. L., Billis, A., Konstantinidis, E., Mouzakidis, Ch., Kolassa, I, Schlee, W., Glöckner, F., Arampatzis, S., Economou, N., Protopapas, A., & Bamidis, P. (2010).** Talk title: Long Lasting Memories: Cognitive and Physical Training for Senior Citizens. Serious Games, Education and Economic Development (SGEED-2010), Ioannina, 07–09 July.
- **Vlahou, E. L., Protopapas, A., & Seitz, A. (2009).** Poster title: Implicit learning of non-native stimuli. Workshop on cross-language speech perception and linguistic experience, 157th Meeting of the Acoustical Society of America. Portland, OR, May 18–22. Abstract in the Journal of the Acoustical Society of America, 125(4):
- **Vlahou, E., Moirou, D., Markatou, A., & Protopapas, A. (2009).** Talk title: [Effects of Practice on word reading and color naming in Stroop interference]. 12th Panhellenic Conference for Psychological Research, Volos, May 14–17.
- **Markatou, A., Vlahou, E., & Protopapas, A. (2008).** Talk title: [Effects of Dimension on Stroop Interference]. 2nd Panhellenic Conference for Cognitive Psychology, Thessaloniki, November 6–9.

- **Vlahou, E., Markatou, A., & Protopapas, A. (2008).** Talk title: [Effects of Practice on Stroop Interference]. 2nd Panhellenic Conference for Cognitive Psychology, Thessaloniki, November 6–9.
- **Vlahou, E., & Protopapas, A. (2006).** Poster title: Implicit learning of a nonnative speech contrast. 20th Annual Meeting of the Hellenic Society for Neuroscience. Heraclion, Crete, September 28–October 1.
- **Haritopoulou, S., Vlahou, E., Protopapas, A., & Mouzaki, A. (2005).** [Teacher assessments of the reading performance and behavior of students]. 10th Panhellenic Conference of Psychological Research, Ioannina, 1–4 December.
- **Mouzaki, A., Sideridis, G., Protopapas, A., Bali, P., Orfanos, P., & Vlahou, E. (2005).** Characteristics of reading-disabled students in elementary grades: Examination of the “rate” vs. “accuracy” deficit in the Greek orthography. 27th International School Psychology Association Colloquium. Athens, 13–17 July.

Other interests

- Comics, Theatre & Drama in Education, Hiking