Efthymia C. Kapnoula

MIKELETEGI PASEALEKUA, 69, 20009 SAN SEBASTIAN - DONOSTIA, GIPUZKOA, SPAIN
TELEPHONE: +34 943 309 300 EXT. (224) • E-MAIL: E.KAPNOULA@BCBL.EU
HTTP://EFFIEKAPNOULA.COM/ | @EFFIEKAPNOULA.BSKY.SOCIAL | OSF.IO/RE6VZ

- **Associate Group Leader** at the Basque Center on Cognition, Brain and Language
- **Ikerbasque Research Fellow** at Ikerbasque - Basque Foundation for Science (tenure-track)

RESEARCH AGENDA

Cognitive mechanisms underlying language comprehension and language plasticity across the lifespan, focusing on speech and lexical processing. Main foci: mental lexicon; word learning; word recognition; speech perception; phoneme categorization; language learning; individual differences

EDUCATION

2016 **PhD** in **Psychology** (Cognition and Perception)
University of Iowa, USA

2013 **MA** in **Psychology**
University of Iowa, USA

2009 **MSc** in **Basic and Applied Cognitive Science**
National and Kapodistrian University of Athens, Greece

2007 **BA** in **Psychology**
National and Kapodistrian University of Athens, Greece

RESEARCH POSITIONS

2024 – present **Associate Group Leader** - Spoken Language group
Basque Center on Cognition, Brain and Language (BCBL), Spain

2022 – present **Staff Scientist**
Basque Center on Cognition, Brain and Language (BCBL), Spain

2016 – 2021 **Postdoctoral Researcher**
Basque Center on Cognition, Brain and Language (BCBL), Spain
Group Leader: Dr. Arthur Samuel

2010 – 2016 **Doctoral Research Assistant**
University of Iowa, USA
Supervisor: Dr. Bob McMurray

Fall 2009 **Visiting Research Assistant**
University of York, UK
Supervisor: Dr. Silvia Gennari

2007 – 2009 **Graduate Research Assistant**
National and Kapodistrian University of Athens, Greece
Supervisor: Dr. Athanassios Protopapas

PUBLICATIONS

Articles in peer-reviewed journals

Kapnoula, E.C. & Samuel, A.G. (In Press). Sensitivity to L1 subphonemic differences predicts vocabulary size in a foreign language. *Language Learning*.

Kapnoula, E.C., Jevtović, M., & Magnuson J.S. (2024). Spoken word recognition: A focus on plasticity. *Annual Review of Linguistics*, *10*, 233-256.

Kapnoula, E.C., & Samuel, A.G. (2023). Wait long and prosper! Delaying production alleviates its detrimental effect on word learning. *Language, Cognition, and Neuroscience*, *38*(5), 724-744.

Apfelbaum, S.K., Kutlu, E., McMurray, B., & **Kapnoula**, E.C. (2022). Don't force it! Gradient speech categorization calls for continuous categorization tasks. *Journal of the Acoustical Society of America*, *152*(6), 3728-3745.

Kapnoula, E.C., & Samuel, A.G. (2022). Reconciling the contradictory effects of production on word learning: Production may help at first, but it hurts later. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *48*(3), 394-415.

Kapnoula, E.C. & McMurray B. (2021). Idiosyncratic use of bottom-up and top-down information leads to differences in speech perception flexibility: Converging evidence from ERPs and eye-tracking. *Brain and Language*, *223*, 105031.

Kapnoula, E.C. (2021). On the locus of L2 lexical fuzziness: Insights from L1 spoken word recognition and novel word learning. *Frontiers in Psychology*, *12*, 689052.

Kapnoula, E.C., Edwards, J., & McMurray, B. (2021). Gradient activation of speech categories facilitates listeners' recovery from lexical garden paths, but not perception of speech-in-noise. *Journal of Experimental Psychology: Human Perception and Performance*, *47*(4), 578-595.

Sarrett, M., McMurray, B., & **Kapnoula**, E.C. (2020). Dynamic EEG analysis during language comprehension reveals interactive cascades between perceptual processing and semantic expectations. *Brain and Language*, *211*, 104875.

Bourguignon, M., Baart, M., **Kapnoula**, E.C., & Molinaro, N. (2020). Lip-reading enables the brain to synthesize auditory features of unknown silent speech. *Journal of Neuroscience*, *40*(5), 1053-1065.

Kapnoula, E.C., & Samuel, A.G. (2019). Voices in the mental lexicon: Words carry indexical information that can affect access to their meaning. *Journal of Memory*

and Language, *107*, 111-127.

Gussow, A., **Kapnoula**, E.C., & Molinaro, N. (2019). Any leftovers from a discarded prediction? Evidence from eye-movements during sentence comprehension. *Language, Cognition, and Neuroscience*, *34*(8), 1041-1058.

Behroozmand, R., Johari, K., Kelley, R.M., **Kapnoula**, E.C., Narayanan, N.S., & Greenlee, J.D.W. (2019). Effect of Deep Brain Stimulation on Vocal Motor Control Mechanisms in Parkinson's Disease, *Parkinsonism & Related Disorders*, *63*, 46-53.

Kapnoula, E.C., Protopapas, A., Saunders, S., & Coltheart, M. (2017). Lexical and sublexical effects on visual word recognition in Greek: Comparing human behavior to the Dual Route Cascaded (DRC) model, *Language, Cognition, and Neuroscience*, *32*(10), 1290-1304.

Kapnoula, E.C., Winn M., Kong, E., Edwards, J. & McMurray, B. (2017). Evaluating the sources and functions of gradiency in phoneme categorization: An individual differences approach. *Journal of Experimental Psychology: Human Perception and Performance*, *43*(9), 1594-1611.

Protopapas, A., Orfanidou, E., Taylor, J., Karavasilis, E., **Kapnoula**, E.C., Panagiotaropoulou G., Velonakis, G., Poulou, L.S, Smyrnis, N., & Kelekis, D. (2016). Evaluating cognitive models of visual word recognition using fMRI: Effects of lexical and sublexical variables. *NeuroImage*, *128*, 328-341.

Kapnoula, E.C. & McMurray B. (2016). Newly learned word-forms are abstract and integrated immediately after acquisition. *Psychonomic Bulletin and Review*, *23*(2), 491-499.

Protopapas, A. & **Kapnoula**, E.C. (2016). Short-term and long-term effects on visual word recognition. *Journal of Experimental Psychology: Learning, Memory*, *and Cognition*, *42*(4), 542-565.

Kapnoula, E.C. & McMurray B. (2016). Training alters the resolution of lexical interference: Evidence for plasticity of competition and inhibition. *Journal of Experimental Psychology: General*, *145*(1), 8-30.

Kapnoula, E.C., Packard, S., Gupta, P., & McMurray B. (2015). Immediate lexical integration of novel word forms, *Cognition*, *134*, 85-99.

Book chapters

McMurray, B., **Kapnoula**, E.C., & Gaskell, M.G. (2016). Learning and integration of new word-forms: Consolidation, pruning and the emergence of automaticity. In G. Gaskell, & J. Mirkovic (Eds.), *Speech Perception and Spoken Word Recognition*. Psychology Press.

Terkourafi, M., **Kapnoula**, E.C., Panagiotopoulou, P., & Protopapas, A. (2013). Triangulating the GRID: A corpus-based cognitive linguistic analysis of five Greek emotion terms. In J. Fontaine, K. R. Scherer, & C. Soriano (Eds.) *Components of*

emotional meaning: A sourcebook. Oxford University Press.

Article in proceedings

Protopapas, A. & **Kapnoula**, E.C. (2013). Exploring word recognition with selected stimuli: The case for decorrelated parameters. In M. Knauff, M. Pauen, N. Sebanz, & I. Wachsmuth (Eds.) *Cooperative Minds: Social Interaction and Group Dynamics*. Paper presented at the *35th Annual Cognitive Science Conference*, Berlin, Germany, 31 July–1 August, pp. 1169–1174.

Submitted/In Preparation

Jevtović, M., **Kapnoula**, E.C., & Martin, C.D. (Under Review). Creation of spelling expectations during voluntary versus involuntary auditory word learning.

Cheimariou, S. & **Kapnoula**, E.C. (Under Revision). Dissecting age effects on spoken word recognition: Lateral inhibition remains stable, yet age slows residual competition resolution.

Weiss, D., Pinet, S., **Kapnoula** E.C. (Registered Report Submitted). Does co-activating familiar words help L2 word learning?

Gür, E., Samuel, A.G., **Kapnoula** E.C. (In Preparation). Neighborhood density effects in spoken word recognition and word learning in Spanish.

Panyutina, A., Wong, B.W.L., Abu El Adas, S., & **Kapnoula**, E.C. (In Preparation). Predictors of L2 vocabulary acquisition: Examining the long-term impact of learners' characteristics in conjunction with lexical characteristics.

Other manuscripts

Kapnoula, E.C. (2016). *Individual differences in speech perception: Sources, functions, and consequences of phoneme categorization gradiency*. Dissertation submitted in partial fulfillment of the requirements for the Doctor of Philosophy degree in *Psychology* in the Graduate College of the University of Iowa. pdf

Kapnoula, E.C. (2013). *Not everything that competes means something: Evidence for competition among word-forms in a novel-word learning paradigm*. Thesis submitted in partial fulfillment of the requirements for the Master of Arts degree in *Psychology* in the Graduate College of the University of Iowa. pdf

Kapnoula, E.C. (2009). *The dual-route theory of visual word recognition and reading aloud: Evaluation of the DRC (Dual-Route Cascaded Model) using Greek behavioral data*. Thesis submitted in partial fulfilment of the requirements for the Master of Science degree in *Basic and Applied Cognitive Science*, National and Kapodistrian University of Athens. pdf (in Greek)

INVITED TALKS AND COLLOQUIA

Kapnoula, E.C. (2022). Examining the links between subphonemic sensitivity and nonnative speech perception. Invited talk in Sarrett, M. & Toscano, J. (chairs) *Bilingualism and*

the Brain. Symposium at the 183rd Meeting of the Acoustical Society of America (ASA), Nashville, TN, USA.

Kapnoula, E.C. (2022). Towards a common framework for L1/L2 novel word learning: Lexicalization as a gradual process towards automaticity. Invited talk in Casalis, S. (chair) *L1/L2 novel word learning: Investigating methodological issues and orthographic and semantic aspects*. Symposium at the 22nd Conference of the European Society for Cognitive Psychology (ESCoP), Lille, France.

Kapnoula, E.C. (2022). Word is as word does: A functional definition of word learning. Invited talk at the *Laboratoire Sciences Cognitives & Sciences Affectives (SCALab),* University of Lille, Lille, France.

Kapnoula, E.C. (2022). Individual differences in speech perception gradiency: Sources and consequences. Invited talk at the *Language and Brain Lab,* University of Connecticut, CT, USA.

Kapnoula, E.C. (2021). What's in a word? Insights from novel word learning. Invited talk at the *Department of Psychology research colloquia,* University of Hull, UK.

McMurray, B., **Kapnoula**, E., Sarrett, M. and Schreiber, K. (2018). The timecourse of speech perception: How and when the brain combines literally everything to understand spoken language. Invited talk at *University of Iowa Auditory Neuroscience Symposium*, Iowa City, IA, USA.

Kapnoula, E.C. (2017). Is it a word yet? Discussing the definition of lexicality in the context of word learning. Invited talk at the *Workshop on Conversational Speech and Lexical Representations*, Radboud University, Nijmegen, The Netherlands.

Kapnoula, E.C. & McMurray, B. (2016). On the "what"s and the "how"s of word learning: From learning words to learning how to use them. Invited talk at the *Sound to Word in Bilingual and Second Language Speech Perception* conference, University of Iowa, Iowa City, IA, USA.

Kapnoula, E.C. & McMurray, B. (2015). Immediate integration of novel word forms: Evidence from eye movements. Invited talk in Weighall, A. (chair) *Timescales of word learning: From immediate to long-term representations across development*. Symposium at the Experimental Psychology Society Meeting, Leeds, UK.

CONFERENCE PRESENTATIONS AND POSTERS

Cheimariou, S. & **Kapnoula**, E.C. (2023). Using the visual world paradigm (VWP) to track age-related changes in spoken word recognition. Oral presentation at the *Eye-Tracking & Language Processing Conference*, Athens, Greece.

Kapnoula, E.C., & Samuel, A.G. (2023). Non-native phonetic learning in listeners with high versus low sensitivity to L1 subphonemic differences. Oral presentation at the *64th meeting of the Psychonomic Society*, San Francisco, CA, USA.

Weiss, D., Samuel, A., & **Kapnoula**, E. (2023). Does Co-Activating Familiar Words Improve Word Learning? Poster presentation at the *64th meeting of the Psychonomic Society*, San Francisco, CA, USA.

Wong, B.W.L., Samuel, A., & **Kapnoula**, E. (2023). Individual differences in speech perception gradiency and listeners' recovery from lexical garden paths in L1 and L2. Poster presentation at the *64th meeting of the Psychonomic Society*, San Francisco, CA, USA.

Gür, E., Samuel, A.G., & **Kapnoula**, E.C. (2023). Phonological Neighborhood Density Effects on Spanish Spoken Word Recognition and Word Learning. Poster presentation at the *64th meeting of the Psychonomic Society*, San Francisco, CA, USA.

Dumay, N., Kenway, S., Kim, D., **Kapnoula**, E.C., & Samuel, A.G. (2023). Do Subphonemic Mismatch Effects Only Tell Us About Words, How They Are Learnt, and Whether They Need to Sleep? Oral presentation at the *64th meeting of the Psychonomic Society*, San Francisco, CA, USA.

Kapnoula, E.C., & Samuel, A.G. (2023). Linking L1 phoneme categorization to non-native phonetic learning: The role of gradiency. Poster presentation at the *23rd Conference of the European Society for Cognitive Psychology (ESCoP)*, Porto, Portugal.

Jevtović, M., **Kapnoula**, E., & Martin, C.D. (2023). To spell or not to spell? Explicit versus implicit creation of spelling expectations during spoken word learning. Oral presentation at the *23rd Conference of the European Society for Cognitive Psychology (ESCoP)*, Porto, Portugal.

Ciesla, M., Jankowiak, K., Pozdniakov, M., & **Kapnoula**, E.C. (2023). Comparing L2 word learning using orthography versus visual referents. Poster presentation at the *23rd Conference of the European Society for Cognitive Psychology (ESCoP)*, Porto, Portugal.

Ciesla, M., Jankowiak, K., Pozdniakov, M., & **Kapnoula**, E.C. (2023). Comparing L2 word learning using orthography versus visual referents. Poster presentation at the *29th AMLaP conference, Architectures and Mechanisms for Language Processing (AMLAP23)*, Donostia-San Sebastián, Spain.

Kapnoula, E.C. & Samuel, A.G. (2023). Subphonemic sensitivity facilitates foreign language learning in late (but not early) bilinguals. Oral presentation at the *International Symposium on Bilingualism*, Sydney, Australia.

Kapnoula, E.C. & Samuel, A.G. (2023). Examining the links between L1 phoneme categorization and non-native phonetic learning. Poster presentation at the *XVI International Symposium of Psycholinguistcs*, Vitoria-Gasteiz, Spain.
[Best Poster Award]

Kapnoula, E.C. & Samuel, A.G. (2022). The role of gradient speech perception in learning non-native speech contrasts. Poster presentation at the *63rd Annual Meeting of the*

Psychonomic Society, Boston, MA, USA (hybrid event - poster presented virtually).

Cheimariou, S. & **Kapnoula**, E.C. (2022). Age effects on lexical competition are external to the mental lexicon: Evidence from eye-movements. Poster presentation at the *63rd Annual Meeting of the Psychonomic Society*, Boston, MA, USA.

Kapnoula, E.C. & Samuel, A.G. (2022). Immediate (but not delayed) production hurts word learning. Oral presentation at the *Experimental Psychology Society Meeting*, London, UK (hosted virtually).

Kapnoula, E.C. & Samuel, A.G. (2021). Does sensitivity to acoustic variation within an L1 phoneme category help L2 learning? Poster presentation at the *62nd Annual Meeting of the Psychonomic Society*, New Orleans, LA, USA (hosted virtually).

Kapnoula, E.C. & Samuel, A.G. (2021). Individual differences in L1 speech perception and L2 learning: The role of sensitivity to within-category differences. Oral presentation at the *Bilingualism Matters Research Symposium 2021* (BMRS21), Edinburgh, UK (hosted virtually).

Kapnoula, E.C. & Samuel, A.G. (2021). Effects of immediate versus delayed production on word learning. Oral presentation at the *XV International Symposium of Psycholinguistics (ISP)*, Madrid, Spain, (hosted virtually).

Kapnoula, E.C. & Samuel, A.G. (2021). Individual differences in speech perception: Sources and consequences for second language learning. Poster presentation at the *XV International Symposium of Psycholinguistics (ISP)*, Madrid, Spain, (hosted virtually).

Kapnoula, E.C. & McMurray, B. (2021). Individual differences in speech perception: Evidence for gradiency in the face of category-driven perceptual warping. Oral presentation at the *180th Meeting of the Acoustical Society of America - Acoustics in Focus* (hosted virtually).

Kim, D., Samuel, A.G., **Kapnoula**, E.C., Nash, A., & Dumay, N. (2020). Reconciling subphonemic mismatch effects and other psycholinguistic tests of lexical engagement. Poster presentation at the *61st Annual Meeting of the Psychonomic Society*, Austin, TX, USA (hosted virtually).

Cheimariou, S. & **Kapnoula**, E.C. (2020). Differential effects of print exposure on subphonemic sensitivity and lexical competition during spoken word recognition: An individual differences approach. Poster presentation at the *33rd Annual CUNY Conference on Human Sentence Processing*, Amherst, MA, USA (hosted virtually).

Kapnoula, E.C. & Samuel, A.G. (2019). Does saying a new word out loud help to learn it better? Poster presentation at the *60th Annual Meeting of the Psychonomic Society*, Montreal, Québec, Canada.

Kapnoula, E.C. & McMurray, B. (2019). What can continuous responses tell us about phoneme categorization? Oral presentation at the *21st Conference of the European Society for Cognitive Psychology (ESCoP)*, Tenerife, Spain.

Kapnoula, E.C. & Samuel, A.G. (2019). Does saying a new word out loud help to learn it better? Disentangling the effects of production and speaker variability on word learning. Poster presentation at the *21st Conference of the European Society for Cognitive Psychology (ESCoP)*, Tenerife, Spain.

Kapnoula, E.C., & Samuel, G.A. (2019). Disentangling the effects of production and speaker variability on word learning. Poster presentation at the *XIV International Symposium of Psycholinguistics (ISP)*, Tarragona, Spain.

Williams, L., **Kapnoula**, E., & de Bruin, A. (2019). Bilingual language mode is flexible: Evidence from a lexical decision task. Poster presentation at the *3rd Biennial International Convention of Psychological Science*, Paris, France.

de Bruin, A., **Kapnoula**, E.C., & Duñabeitia, J.A. (2018). Examining conflict adaptation across Stroop and semantic interference tasks: An eye-tracking study. Poster presentation at the *59th Annual Meeting of the Psychonomic Society*, New Orleans, LA, USA.

Sarrett, M., **Kapnoula**, E.C., McMurray, B. (2018). Realtime integration of acoustic cues and semantic expectations in speech processing: Evidence from EEG. Poster presentation at the *40th Annual Meeting of the Cognitive Science Society*, Madison, WI, USA, July 25-28.

Sarrett, M., **Kapnoula**, E.C., & McMurray, B. (2018). Realtime integration of acoustic cues and semantic expectations in speech processing: Evidence from EEG. Poster presentation at the *176th Meeting of the Acoustical Society of America (ASA)*, Victoria, British Columbia, Canada.

Kapnoula, E.C., & Samuel. A.G. (2017). Talker's voice can affect word meaning: Evidence from eye movements. Poster presentation at the *58th Annual Meeting of the Psychonomic Society*, Vancouver, British Columbia, Canada.

Kapnoula, E.C., & Samuel. A.G. (2017). Information about the talker's voice can affect word meaning. Poster presentation at the *20th Conference of the European Society for Cognitive Psychology (ESCoP)*, Potsdam, Germany.

Behroozmand, R., Herath, P., Johari, K., Kelley, E., **Kapnoula**, E.C., Bryant, K., Narayanan, N., Greenle, J. (2016). Effects of STN deep brain stimulation on voice motor control in Parkinson's disease. Poster presentation at the *46th Annual Meeting of the Society for Neuroscience*, San Diego, CA, USA.

Kapnoula, E.C., Edwards, J., & McMurray, B. (2016). Phoneme categorization gradiency is advantageous for coping with ambiguities: Evidence from individual differences. Poster presentation at the *2nd Workshop on Psycholinguistic Approaches to Speech Recognition in Adverse Conditions*, Nijmegen, The Netherlands.

Castelluccio, B., Canfield, A., Green, J., Hogstrom, A., **Kapnoula**, E.C., Edwards, J., McMurray, B., & Eigsti, I. (2016). Are there phonological consequences of auditory processing differences in autism spectrum disorder? Evidence from phonological

categorization tasks. Poster presentation at the *International Society for Autism Research* conference, Baltimore, MD, USA.

Kapnoula, E.C., Edwards, J., & McMurray, B. (2015). Gradient categorization of speech sounds helps listeners recover from lexical garden paths. Poster presentation at the *14th Annual Auditory Perception, Cognition, and Action Meeting*, Chicago, IL, USA.

Kapnoula, E.C. & McMurray, B. (2014). Evidence for experience-based changes in inter-lexical inhibition. Poster presentation at the *55th Annual Meeting of the Psychonomic Society*, Long Beach, CA, USA.

Kapnoula, E.C., Winn M., Kong, E., Edwards, J., & McMurray, B. (2014). Listeners differ in whether they perceive speech gradiently or categorically: Consequences for cue integration. Poster presentation at the *55th Annual Meeting of the Psychonomic Society*, Long Beach, CA, USA.

Kapnoula, E.C., McMurray, B., Kong, E., Winn M., & Edwards, J. (2014). Individual differences in phoneme categorization. Oral presentation at the *19th Mid-Continental Phonetics & Phonology Conference*, Madison, WI, USA.

Schreiber, K., **Kapnoula** E.C., & McMurray B. (2014). Lexical effects on early sensory processing reveals the role of top-down feedback in speech perception. Poster presentation at the *19th Mid-Continental Phonetics & Phonology Conference*, Madison, WI, USA.

Protopapas, A., Smyrnis, N., Karavassilis E., Orfanidou, E., **Kapnoula**, E.C., Fotiadis, F., & Soldatos, T. (2013). An fMRI study of Greek word and pseudoword processing in the brain. Oral presentation at the *14th Panhellenic Conference of Psychological Research*, Alexandroupoli, Greece.

Kapnoula, E.C., Packard, S., Apfelbaum, K., McMurray, B., & Gupta, P. (2012). Lexical integration without meaning or sleep. Poster presentation at the *53rd Annual Meeting of the Psychonomic Society*, Minneapolis, MN, USA.

Kapnoula, E.C., Packard, S., Apfelbaum, K., McMurray, B., & Gupta, P. (2012). The young and the meaningless: Novel-word learning without meaning or sleep. Poster presentation at the *164th Meeting of the Acoustical Society of America*, Kansas City, KS, USA.

Terkourafi, M., **Kapnoula**, E.C., Panagiotopoulou, P., & Protopapas, A. (2009). Analysis of the meaning of words expressing emotions in relation to their location in the four-dimensional conceptual space of emotion words. Oral presentation at the *12th Panhellenic Conference of Psychological Research*, Volos, Greece.

OTHER PRESENTATIONS AND POSTERS

Gür, E., Tuninetti, A., & **Kapnoula**, E.C. (2023). Cross-language Sound Categorization: Turkish Speakers' Perception of English Phonemes. Poster presentation at the *Bilkent Psychology Department Senior Project Poster Presentation Day*, Ankara, Türkiye.

Kapnoula, E.C. (2021). What's in a word? Insights from novel word learning. Oral presentation at the *Basque Center on Cognition, Brain and Language general meetings*, Donostia-San Sebastián, Spain.

Sarrett, M.E., **Kapnoula**, E., & McMurray, B. (2017). Contextual influences on speech perception. Poster presentation at the *University of Iowa Neuroscience Graduate Program Research Day*, Iowa City, IA, USA.

Kapnoula, E. & Samuel, A. (2017). Indexical effects in word-to-referent mappings: Evidence from eye movements. Oral presentation at the *Basque Center on Cognition, Brain and Language general meetings*, Donostia-San Sebastián, Spain.

INDIVIDUAL GRANTS AND FELLOWSHIPS

Early career / Postdoctoral fellowships

2024 – 2028 Ramón y Cajal Fellowship - Spanish Ministry of Science and Innovation (State Research Agency) & European Social Fund Plus (€244,350) – awarded in 2023

2021 – 2026 Ikerbasque Research Fellowship, Ikerbasque - Basque Foundation for Science (€193,000) – awarded in 2020

2019 – 2021 Marie Skłodowska-Curie Individual Fellowship, European Union/European Commission (€170,121.60) – awarded in 2018

2018 – 2019 Juan de la Cierva-Formación Fellowship, Spanish Ministry of Economy, Industry & Competitiveness (€50,000) – awarded in 2017

Predoctoral grants and scholarships

2015 Graduate Student Senate Travel Funds Award, University of Iowa, USA ($400)

2015 Travel Award, Dept. of Psychological and Brain Sciences, University of Iowa, USA ($200)

2010 – 2016 Doctoral Tuition scholarship, Graduate College University of Iowa, USA (~$26,660)

2008 – 2009 Graduate Tuition scholarship, Interdisciplinary Program of Graduate Studies in Basic and Applied Cognitive Science, University of Athens, Greece (€1,000)

2006 – 2007 Erasmus scholarship (Univ. Koblenz-Landau, Germany), European Commission (€1,000)

RESEARCH GRANTS

Principal investigator / Co-PI

2021 – 2024 PID2020-113348GB-I00. Project I+D+i 2020. Ministry of Science and Innovation, Spanish

government (€66,550 + 100,860€ for PhD position with reference: PRE2021-098020)
Project title: *Connecting Words: The Role of Co-Activation in Lexical Acquisition*
Principal investigators: Efthymia Kapnoula & Arthur Samuel

2021 – 2022 CARSCA Research grant. Univ. of Alabama ($4,700)
Project title: *Spoken word recognition in younger adults and older adults with and without hearing loss*
Principal investigator: Spyridoula Cheimariou; Co-PI: Efthymia Kapnoula

Research team member

2018 – 2021 ES/R006288/1 ESRC research grant (£529,417)
Project title: *Does sleep flush out the unwanted leftovers of recent cognitive activities?*
Principal investigator: Nicolas Dumay | Co-Investigator: Arthur Samuel |
Postdoctoral researcher/Technical consultant: Efthymia Kapnoula

2018 – 2021 PSI2017-82563-P. Project I+D Plan Nacional. MINECO, Spanish government (€80,800)
Project title: *Control Of Lexical Acquisition: Perception Or Production*
Principal investigator: Arthur Samuel | Postdoctoral researcher: Efthymia Kapnoula

2011 – 2016 R01DC00808. National Institutes of Deafness and other Communication Disorders ($1,570,000)
Project title: *Speech perception, acoustic variability and time: Normal and impaired listeners*
Principal investigator: Bob McMurray | Research team member: Efthymia Kapnoula

HONORS AND AWARDS

2017 Marie Sklodowska-Curie Actions Seal of Excellence, European Union/European Commission

2016 ESCoP Early Career Publication Award 2016, European Society for Cognitive Psychology (with monetary award: €1,000)

2016 D.C. Spriestersbach Dissertation Prize (biennial award for best dissertation in Social Sciences), University of Iowa, USA (with monetary award: $2,500)

2009 Valedictorian, MSc in Basic and Applied Cognitive Science, University of Athens, Greece

TEACHING EXPERIENCE

Graduate courses

Spring 2017 – present **Mental Lexicon**
Master's program in Cognitive Neuroscience of Language
Basque Center on Cognition, Brain and Language/University of the Basque Country
Role: Instructor (responsible for all aspects of course)

Spring 2014 **Mixed Effects Modeling in Psychology**
PhD program in Psychology
University of Iowa
Role: Teaching Fellow (material preparation, teaching, grading, administration, office hours)

Undergraduate courses

Spring 2012 **Research Methods in Psychology**
University of Iowa
Role: Teaching Assistant (teaching, grading, office hours)

Fall 2010 – Fall 2011 **Elementary Psychology**
University of Iowa
Roles: Teaching Assistant | Head Teaching Assistant | Instructor (duties varied from admin and grading to being responsible for all aspects of course, under senior supervision)

Other teaching experience

Spring 2020 Led workshop on "*Introduction to the visual world paradigm"* at BCBL
Duties: Intro to the VWP, hands-on instruction of Experiment Builder scripting, and overview of data pre-processing/analysis steps

Summer 2017 Led workshop on "*Using the visual world paradigm to study speech perception: Advanced analysis of eye-tracking data"* at the Interdisciplinary Center (IDC), Herzliya, Israel
Duties: Intro to the VWP, hands-on instruction of Experiment Builder script modification and pre-processing/analysis of pilot data

STUDENT SUPERVISION AND MENTORSHIP

Doctoral students

2022 – present Daphne Weiss (in progress)
PhD in Cognitive Neuroscience of Language, UPV/EHU, Spain
Role: Primary advisor (co-supervised with Dr. Arthur Samuel)
Topic: *The role of lexical co-activation in word learning*

2022 – present Wai Leung (Brian) Wong (in progress)
PhD in Cognitive Neuroscience of Language, UPV/EHU, Spain
Role: Primary advisor (co-supervised with Dr. Arthur Samuel)
Topic: *Predictors of individual differences in non-native listening comprehension*

2021 – 2023 Mina Jevtović (defended with highest honors)
PhD in Cognitive Neuroscience of Language, UPV/EHU, Spain
Role: Secondary advisor (co-supervised with Dr. Clara Martin)
Topic: *Longitudinal cross-linguistic study of phonemic recalibration during reading acquisition*

Master's students

2022 – 2023 Anastasiya Panyutina, Master's student co-supervised with Dr. Sandy Abu El Adas
Master in Cognitive Neuroscience of Language, UPV/EHU, Spain
Topic: *Predictors of L2 word learning*

2021 – 2022 Simantika Roy, Master's student co-supervised with Drs. Nicola Molinaro, Mathieu Bourguignon, & Martijn Baart
Master in Cognitive Neuroscience of Language, UPV/EHU, Spain
Topic: *The effect of lexical predictability on audio-visual processing of natural speech*

2021 – 2022 Preeti Singh, Master's student co-supervised with Dr. Svetlana Pinet
Master in Cognitive Neuroscience of Language, UPV/EHU, Spain
Topic: *The effect of lexical co-activation in L2 word learning*

2018 – 2019 Outhmane Rassili, Master's student co-supervised with Dr. Mikhail Ordin
Master in Cognitive Neuroscience of Language, UPV/EHU, Spain
Topic: *Bilingualism and rhythm-driven perceptual enhancement in linguistic and non-linguistic stimuli*

2017 – 2018 Lindsay Williams, Master's student co-supervised with Dr. Angela de Bruin
Master in Cognitive Neuroscience of Language, UPV/EHU, Spain
Topic: *Short-term modulation of cross-linguistic interactions*

2016 – 2017 Arella Gussow, Master's student co-supervised with Dr. Nicola Molinaro
Master in Cognitive Neuroscience of Language, UPV/EHU, Spain
Topic: *Prediction in sentence processing*

2016 – 2017 Bonnie Zuckerman, Master's student co-supervised with Dr. Nicola Molinaro
Master in Cognitive Neuroscience of Language, UPV/EHU, Spain
Topic: *Lexical competition across L1 and L2*

Bachelor's students

2022 – 2023 Ege Gür, Bachelor's student co-supervised with Dr. Alba Tuninetti
Bachelor in Psychology, İhsan Doğramacı Bilkent University, Turkey
Topic: *Cross-Linguistic Sound Categorization: Native Turkish Speakers' Perception of English Vowels and Word-Initial Consonants*

Other

2013 – present Trained several doctoral and master's students in eye-tracking and electrophysiological techniques (set up experiment & data analysis); trained several undergraduate students in collecting eye-tracking and EEG data

MASTER AND PHD COMMITTEE MEMBER

PhD defense committee

Oct. 2023 Giorgio Piazza, PhD in Cognitive Neuroscience of Language, UPV/EHU, Spain

June 2023 Anezka Smejkalova, PhD in Science of Psychology and Education, Free University of Brussels, Belgium

May 2023 Christoforos Souganidis, PhD in Linguistics, UPV/EHU, Spain

Oct. 2022 Alberto Furgoni, PhD in Cognitive Neuroscience of Language, UPV/EHU, Spain

PhD mid-term committee

Nov. 2022 Abraham Sanchez, PhD in Cognitive Neuroscience of Language, UPV/EHU, Spain

July 2022 Romain Pastureau, PhD in Cognitive Neuroscience of Language, UPV/EHU, Spain

March 2021 Christoforos Souganidis, PhD in Linguistics, UPV/EHU, Spain

Master defense committee

Sept. 2023	Madeline Rey Bartels, Master in Cognitive Neuroscience of Language, UPV/EHU, Spain
July 2023	Joaquín Ordoñez, European Master's in Clinical Linguistics, University of Groningen, Netherlands, Ghent University, Belgium & University of Eastern Finland, Finland
June 2023	Marian Simarro, Master in Cognitive Neuroscience of Language, UPV/EHU, Spain
Sept. 2022	Laura Díaz-Muñoz Manzanares, Master in Cognitive Neuroscience of Language, UPV/EHU, Spain
July 2022	Nikita Sossounov, Master in Cognitive Neuroscience of Language, UPV/EHU, Spain
June 2022	Daphne Weiss, Master in Cognitive Neuroscience of Language, UPV/EHU, Spain
Sept. 2021	Olivia Molina-Nieto, Master in Cognitive Neuroscience of Language, UPV/EHU, Spain
August 2021	James Barry, Master in Cognitive Neuroscience of Language, UPV/EHU, Spain
Sept. 2019	Kseniia Serebrennikova, Master in Cognitive Neuroscience of Language, UPV/EHU, Spain
July 2019	Laura Fernandez, Master in Cognitive Neuroscience of Language, UPV/EHU, Spain
July 2018	Maria Eleni Soilemezidi, Master in Cognitive Neuroscience of Language, UPV/EHU, Spain
July 2017	Jordi Martorell Serra, Master in Cognitive Neuroscience of Language, UPV/EHU, Spain
July 2017	Aurore Zelazny, Master in Cognitive Neuroscience of Language, UPV/EHU, Spain
Sept. 2017	Ahmed Mohammed, Master in Cognitive Neuroscience of Language, UPV/EHU, Spain

MEMBERSHIP

Fellow of the *Psychonomic Society* (USA)
Full Member of the *European Society for Cognitive Psychology* (Europe)
Member of the *Experimental Psychology Society* (UK)
Member of *Women in Cognitive Science* (International)
DeLTA Center (USA) alumna

SERVICE

Ad hoc reviews for journals and conferences

Journal of Experimental Psychology: Human Perception and Performance | Language, Cognition and Neuroscience| Cognition| Attention, Perception, and Psychophysics | Journal of Memory and Language | Cognitive Science Society | Laboratory Phonology | Cognitive Science | Journal of the Acoustical Society of America | Journal of Experimental Child Psychology | Journal of Speech, Language, and Hearing Research | Language and Speech | Frontiers Human Neuroscience | Royal Society Open Science | PLOS ONE | Psychological Science | Brain and Language | Psychonomic Bulletin and Review | Journal of Phonetics | Journal of Experimental Psychology: Learning, Memory, and Cognition | Acta Psychologica | The Journal of the Acoustical Society of America Express Letters | Journal of Experimental Psychology: General

Grant reviews

Recurring	Evaluator for the Marie Skłodowska-Curie Actions [H2020-MSCA-IF-2019 | HORIZON-MSCA-2022-PF] – European Commission
2023	Evaluator for the *Biotechnology and Biological Sciences Research Council* (BBSRC; UK) - *UK Research and Innovation* (UKRI)
2022	Reviewer for the *National Science Foundation* (NSF; USA) Program in Perception, Action, and Cognition
2021	Evaluator for the *Natural Sciences and Engineering Research Council of Canada* (NSERC) Discovery Grants program

Other service as evaluator

2024 – present	Certified Expert - Registry of the Spanish Research Agency (Agencia Estatal de Investigación)
2021 – present	Certified Expert - Registry of the Hellenic Foundation for Research and Innovation (H.F.R.I.)
2013 – 2016	Judge at the 2013, 2014, and 2016 Spring Undergraduate Research Festival
2011; 2014	Reviewer at the DeLTA Center Interdisciplinary Research Grant Reviewing Committee
2013	Reviewer at the Executive Council of Graduate and Professional Students: Professional Advancement Research and Travel Grants (ECGPS – PAGs)

Organization of scientific meetings

2025	*International Symposium on Bilingualism (ISB) 15*, Donostia–San Sebastián, Spain Role: Member of the scientific committee
2023	*Architectures and Mechanisms for Language Processing (AMLaP) 29*, Donostia–San Sebastián, Spain Role: Member of the scientific committee
2022	*Psychonomic Society Collaborative Symposium: Linking Language Perception and Production: Latest Insights and Future Directions* - 22nd Conference of the European Society for Cognitive Psychology (ESCoP), Lille, France Role: Chair
2022	*1st Interdisciplinary Workshop on Phonology and Dyslexia*, co-sponsored by the BCBL and the University of Deusto, Spain Role: Member of the organizing committee

TECHNICAL AND COMPUTER SKILLS

Experiment building packages:	DMDX, Experiment Builder, E-Prime, Psychtoolbox, Presentation
Programming/markup languages:	Matlab, HTML, some Python, some Visual Basic, some SQL
Text and data processing:	Microsoft Office (Word, Excel, Access)
Audiovisual processing:	Praat, Audacity, Adobe Photoshop, Abrosoft FantaMorph

Statistical analysis packages:	SPSS, R
Eye-tracking:	Eyelink II, Eyelink 1000, Eyelink 1000 Plus
Electrophysiological signal processing:	EEGLAB, ERPLAB, BrainVision Analyzer

Methodological and technical expertise: eye-movement data analysis; curve-fitting of time-series and categorization data; mixed-effects modeling; EEG set-up and recording

Experience in setting-up laboratory equipment: co-led setting up of the BrainVision EEG system in the Psychology Dept. at the Univ. of Iowa (2014); co-led setting up of the Eyelink 1000 PLUS eye-tracking systems at BCBL (2022)

OUTREACH

2023	Plenary Talk at the *5th San Sebastián English Language Teaching (ELT) Conference: How does word learning work?*
2022	Invited Talk at the *Language Teaching: Teacher's day* workshop organized by BCBL *Repeating new vocabulary out loud: Helpful or harmful?* [talk delivered in Spanish]
2019	Outreach Activity at the BCBL Brain Awareness Week (Semana del Cerebro) *The eyes are the window of the brain* (interactive demonstrations of the eye-tracking methodology for the general public)
2018	Invited Talk at the BCBL Brain Awareness Week (Semana del Cerebro) *Don't be so sure! The role of uncertainty in language comprehension*
2017 – 2019	Organization committee member – BCBL Brain Awareness Week (Semana del Cerebro) Brain Awareness Week – Society for Neuroscience and Dana Alliance for Brain Initiatives

PRESS COVERAGE

2023	"Repeat after me: Sometimes just listening is better for learning new words"; press release disseminated by national (Spanish) and international media
2019	"Hearing Through Lip-Reading: How the brain can create sound information via lip-reading"; press release released by the Journal of Neuroscience and disseminated by international media
2019	"La voz: el elemento clave que da sentido a las palabras en nuestro cerebro" (transl. "The voice: the key element that gives meaning to the words in our brain"); press release disseminated by national (Spanish) and international media

LANGUAGES

Greek	Native speaker
English	High proficiency; Certificate of Proficiency in English (C2) – University of Cambridge

Spanish	Advanced level; Certificado de Nivel Avanzado (B2) – Escuela Oficial de Idiomas
German	Basic level; Zertifikat Deutsch (B1) – Goethe Institute
Basque	Notions

LICENCES AND CERTIFICATIONS

Established researcher – Certification R3, Spanish Research Agency

Licensed psychologist in Greece

University of Iowa *Safe Zone* ally (trained to promote support, affirmation, and inclusion of LGBTQ people)

Last updated: March 2024