

EFTHYMIA C. KAPNOULA

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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 subphonemic differences in first language 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

- Baese-Berk, M., **Kapnoula**, E.C., & Samuel, A.G. (Submitted). The Relationship of Speech Perception and Speech Production: It's Complicated.
- 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 fulfillment 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. (2024). Individual differences in speech perception gradiency: What do we know so far? Invited talk in Myers, E. & Skoe, E. (organizers) *Individual Differences Workshop: From Sound to Meaning*, University of Connecticut, Storrs, CT, USA.
- Kapnoula**, E.C. (2024). Individual differences in speech perception gradiency: Current insights and future directions. Invited talk at the *Neurolinguistics in Sweden (NLS) lecture series*, Lund University, Sweden.
- 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 Psycholinguistics*, 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

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| 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 |

Predocctoral grants and scholarships

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| 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. Priestestersbach 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 – **Mental Lexicon**
 present 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 | Language and Cognition

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

Internal BCBL committee service

2024 – present BCBL scientific committee member

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

2024	Outreach Activity at the <i>Pint of Science Festival</i> <i>Does repetition help word learning?</i> [talk delivered in Spanish; original title: <i>¿La repetición ayuda el aprendizaje de palabras?</i>]
2023	Plenary Talk at the <i>5th San Sebastián English Language Teaching (ELT) Conference</i> : <i>How does word learning work?</i>
2022	Invited Talk at the <i>Language Teaching: Teacher's day</i> workshop organized by BCBL <i>Repeating new vocabulary out loud: Helpful or harmful?</i> [talk delivered in Spanish; original title: <i>Repetición de nuevas palabras en voz alta: ¿útil o perjudicial?</i>]
2019	Outreach Activity at the <i>Brain Awareness Week (Semana del Cerebro)</i> <i>The eyes are the window of the brain</i> (interactive demonstrations of the eye-tracking methodology for the general public)
2018	Invited Talk at the <i>Brain Awareness Week (Semana del Cerebro)</i> <i>Don't be so sure! The role of uncertainty in language comprehension</i>
2017 – 2019	Organization committee member – BCBL <i>Brain Awareness Week (Semana del Cerebro)</i> 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: May 2024