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Begoña Díaz Menéndez
CURRICULUM VITAE

Personal Data

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Academic Degrees

- 2004–2009:** PhD studies in Psychology with Cum laude; grade of European Doctor. University of Barcelona, Spain.
- 2004–2005:** Certificate of Advanced Studies in Cognitive Science and Language (equivalent to M.Sc. degree), University of Barcelona, Spain.
- 1997–2001:** Undergraduate degree in Psychology, University of Barcelona, Spain.

Appointments

- Since 2013:** Postdoctoral fellow, Speech Acquisition & Perception Group, University Pompeu Fabra, Barcelona, Spain.
- 2009–2012:** Postdoctoral fellow, Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany.
- 2004–2009:** Ph.D. student, Department of Basic Psychology, Faculty of Psychology, University of Barcelona, Spain.
- 2001–2003:** Research assistant, Department of Basic Psychology, Faculty of Psychology University of Barcelona, Spain.
- 2000–2001:** Research assistant, Department of Methodology of the Behavioural Sciences, Faculty of Psychology, Universitat de Barcelona, Spain.

Honors and Awards

- 2014:** Juan de la Cierva postdoctoral fellowship
- 2013:** Marie Curie postdoctoral fellowship.
- 2009:** Max Planck Institute postdoctoral fellowship.
- 2008:** Catalan Government travel grant to visit the INSERM-CEA Cognitive Neuroimaging Unit, Paris, France.

- 2007:** British Council travel award to assist to the “International Networking Seminar for Young Researchers - COGNITIVE NEUROSCIENCE AND NEURO-IMAGING OF DEVELOPMENT”
- 2007:** Spanish Government travel grant to visit the F.C. Donders Center for Cognitive Neuroimaging, Nijmegen, The Netherlands.
- 2006:** Spanish Government travel grant to visit the Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands.
- 2005:** Spanish Government travel grant to visit Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany.
- 2004:** Spanish Government Postgraduate grant.

Publications

Peer-reviewed articles

- Díaz, B.**, Mitterer, H., Broersma, M., Escera, C., & Sebastián-Gallés, N. (in press). Variability in L2 phonemic learning originates from speech-specific capabilities: An MMN study on late bilinguals. Bilingualism: Language and Cognition.
- Díaz, B.**, Erdocia, K., de Menezes, R.F., Mueller, J. L., Sebastián-Gallés, N., & Laka, I. (2016). Electrophysiological correlates of second-language syntactic processes are related to native and second language distance regardless of age of acquisition. Frontiers in Psychology, 7, 133.
- Jin, Y., **Díaz, B.** (joint first authors), Colomer, M., & Sebastián-Gallés, N. (2014). Oscillation encoding of individual differences in speech perception. PLoS ONE, 9, e100901.
- Burgaleta, M., Baus, C., **Díaz, B.**, & Sebastián-Gallés, N. (2014). Brain structure is related to speech perception abilities in bilinguals. Brain Structure and Function, 219, 1405-1416.
- Gervain, J., Sebastián-Gallés, N., **Díaz, B.**, Laka, I., Mazuka, R., Yamane, N., Nespors, M., & Mehler J. (2013). Word frequency cues word order in adults: Cross-linguistic evidence. Frontiers in Language Sciences, 4, 689.
- Díaz, B.**, Hintz, F., Kiebel, S. J., & von Kriegstein, K. (2012). Dysfunction of the auditory thalamus in developmental dyslexia. Proceedings of the National Academy of Sciences of the United States of America, 109, 13841-13846.
- Díaz, B.**, Mitterer, H., Broersma, M., & Sebastián-Gallés, N. (2012). Individual differences in late bilinguals' L2 phonological processes: From acoustic-phonetic analysis to lexical access. Learning and Individual Differences, 22, 680-689.
- Ressel, V., Pallier, C., Ventura-Campos, N., **Díaz, B.**, Roessler, A., Ávila, C., & Sebastián-Gallés, N. (2012). An effect of bilingualism on the auditory cortex. The Journal of Neuroscience, 32, 16597-16601.
- Sebastián-Gallés, N., & **Díaz, B.** (2012). First and second language speech perception: Graded learning. Language Learning, 62, 131-147.
- Sebastián-Gallés, N., Soriano-Mas, C., Baus, C., **Díaz, B.**, Ressel, V., Pallier, C., Costa, A., & Pujol, J. (2012). Neuroanatomical markers of individual differences in native and non-native vowel perception. Journal of Neurolinguistics, 25, 150-162.
- Díaz, B.**, Sebastián-Gallés, N., Erdocia, K., Mueller, J. L., & Laka, I. (2011). On the cross-linguistic validity of electrophysiological correlates of morphosyntactic processing: A study of case and agreement violations in Basque. Journal of Neurolinguistics, 24, 357-373.

Díaz, B., Baus, C., Escera, C., Costa, A., & Sebastián-Gallés, N. (2008). Brain potentials to native phoneme discrimination reveal the origin of individual differences in learning the sounds of a second language. *Proceedings of the National Academy of Sciences*, 105, 16083-16088.

Sebastián-Gallés, N., Rodríguez-Fornells, A., de Diego-Balaguer, R., & **Díaz, B.** (2006). First- and second-language phonological representations in the mental lexicon. *Journal of Cognitive Neuroscience*, 18, 1277-1291.

de Diego-Balaguer, R., Sebastián-Gallés, N., **Díaz, B.**, & Rodríguez-Fornells, A. (2005). Morphological processing in early bilinguals: An ERP study of regular and irregular verb processing. *Cognitive Brain Research*, 25, 312-325.

Conference Abstracts

Sebastián-Gallés, N. & **Díaz, B.** (2008). Individual differences in non-native phoneme perception: Linguistic or acoustic origins. *International Journal of Psychology*, 43, 537.

Sebastián-Gallés, N., Vera, F., Larsson, J, **Díaz, B.**, Deco, G. (2007). Listening to a dialect: Dynamics of phonetic and lexical representations. *Spanish Journal of Psychology*, 10, 482.

Díaz, B., Erdozia, K., Mueller, J. L., Laka, I., & Sebastián-Gallés, N. (2006). Individual differences in syntactic processing of a second language: Electrophysiological evidence. *Journal of Psychophysiology*, 20, 228.

Contributions to Encyclopedias

Sebastián-Gallés, N., **Díaz, B.**, & Costa, A. (in press). Bilingualism and speech perception. In C. A. Chapelle (Ed.), *The Encyclopedia of Applied Linguistics*. Boston: Wiley-Blackwell.

Research stays abroad

2008: INSERM-CEA Cognitive Neuroimaging Unit, Paris, France. Duration: 2 months.

2007: F.C. Donders Center for Cognitive Neuroimaging, Nijmegen, The Netherlands. Duration: 2 months, 15 days.

2006: Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands. Duration: 3 months, 20 days.

2005: Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany. Duration: 2 months, 7 days.

Participation in funded projects

2014-2016: “Grup de Recerca en Neurociència Cognitiva (GRNC)”. (2013 SGR 1210) AGAUR - Agència de Gestió d’Ajuts Universitaris i de Recerca de la Generalitat de Catalunya. PI: Albert Costa. 30,000 €.

2013-2018: “Mechanisms of cognitive control and language learning (UNDER CONTROL)”. European Research Council (Advanced Grant), Seventh Framework Programme of the European Union. Programme: Ideas. PI: Núria Sebastián Gallés. 2,498,502€.

2013-2015: “Brain functional and anatomical correlates of variability in the degree of success in the learning of the L2 phonemes (BILBRAIN)”. Marie Curie Actions. Seventh Framework Programme of the European Union. Programme: People. (Dr. Begoña Díaz). PI: Núria Sebastián Gallés. 223,002 €

- 2009-2011:** "Speech perception: Not just what, but also how and who " (PSI2009-09066) Ministerio de Ciencia e Innovación 2009 - 2011. PI: Nuria Sebastián-Gallés. 197,472 €
- 2007-2013:** "Brainglot: Bilingualism and Cognitive Neuroscience" (CSD2007-00012) CONSOLIDER-INGENIO 2010, Ministerio de Economía y Competitividad. PI: Núria Sebastián-Gallés. 5,000,000 €
- 2007-2009:** "Asymmetries in language processing" (SEJ2007-60751) Ministerio de Educación y Ciencia. PI: Núria Sebastián-Gallés. 162,260 €
- 2006-2010:** "Grup de Recerca en Neurociència Cognitiva (GRNC)" (2005 SGR 01026) AGAUR - Agència de Gestió d'Ajuts Universitaris i de Recerca. Departament d'Universitats, Recerca i Societat de la Informació. PI.: Núria Sebastián-Gallés. 50,600 €

Attendance to congresses and conferences

Conference talks

- Díaz, B.**, & von Kriegstein, K. (2011). Neural mechanisms of human communication. *Brain and Behaviour Society Meeting*, Sevilla, Spain.
- Sebastián-Gallés, N., **Díaz, B.**, Basora, A., & Jin, Y. (2011). On the relationship between first and second language speech perception. *The Fourth A. Guiora Annual Roundtable Conference in the Cognitive Neuroscience of Language*, Nijmegen, The Netherlands.
- Sebastián-Gallés, N., & **Díaz, B.** (2008). Individual differences in non-native phoneme perception: Linguistic or acoustic origins. *International Congress of Psychology*, Berlin, Germany.
- Sebastián-Gallés, N., Baus, C., Soriano-Mas, C., Costa, A., **Díaz, B.**, Escera, C., & Pujol, J. (2007). Anatomical correlates of individual differences in L2 phonemic contrast learning. *Research Workshop Psychology-UB: Brain, Cognition & Behaviour*. Barcelona, Spain.
- Díaz, B.**, Sebastián-Gallés, N., Erdozia, K., Mueller, J., & Laka, I. (2007). Individual differences in syntactic processing of a second language: Electrophysiological evidence. *International Networking Seminar for Young Researchers - COGNITIVE NEUROSCIENCE AND NEURO-IMAGING OF DEVELOPMENT*. Paris, France.
- Sebastián-Gallés, N., **Díaz, B.**, Escera, C., Baus, C., Soriano-Mas, C., Costa, A., & Pujol, J. (2007). Individual differences in native and non-native phoneme contrasts. *Activitats institucionals amb motiu de la investidura del prof. Risto Näätänen com a Doctor Honoris Causa per la Universitat de Barcelona*. Barcelona, Spain.
- Díaz, B.**, Sebastián-Gallés, N., Erdozia, K., Mueller, J., & Laka, I. (2006). Diferencias individuales en el procesamiento sintáctico de una segunda lengua: evidencia electrofisiológica. *V Congreso de Psicofisiología*. Granada, Spain.
- Sebastián Gallés, N., **Díaz, B.**, & Costa, J. (2006). Episodes of a bilingual's lexicon. *Experimental Psychology Society*. Birmingham, United Kingdom.
- Sebastián Gallés, N., **Díaz, B.**, & Costa, J. (2006). Influencias de las huellas episódicas en el acceso al léxico en primeras y segundas lenguas. *VI Congreso de la Sociedad Española de Psicología Experimental*. Santiago de Compostela, Spain.

Sebastián-Gallés, N., Baus, C., Soriano-Mas, C., Costa, A., **Díaz, B.**, Pujol, J., & Escera, C. (2005). Anatomical correlates of individual differences in L2 phonemic contrast learning. VII *Simposio de Psicolingüística*. Valencia, Spain.

Conference Posters

- Schmitz, J., **Díaz, B.**, Fernández Rubio, K., de Menezes, R.F., Burgaleta, M., & Sebastián-Gallés, N. (2015). Exploring the underlying factors of second language speech perception and production. 19th Conference of the European Society for Cognitive Psychology (*ESCO*P). Paphos, Chipre.
- Schmitz, J., **Díaz, B.**, & Sebastián-Gallés, N. (2013). Enhancements in vowel discrimination induced by a spoon over the tongue. *Barcelona Computational and Systems Neuroscience Meeting (BARCSYN)*. Barcelona, Spain.
- Schmitz, J., **Díaz, B.**, & Sebastián-Gallés, N. (2013). Enhancements in vowel discrimination induced by a spoon over the tongue. *VI Brainglot Workshop*. Barcelona, Spain.
- Ressel, V., Pallier, C., Ventura-Campos, N., **Díaz, B.**, Roessler, A., Ávila, C., & Sebastián-Gallés, N. (2012). Structural brain differences between Monolinguals and Bilinguals. *Neurobiology of Language Conference*. San Sebastián, Spain.
- Burgaleta, M., **Díaz, B.**, Baus, C., & Sebastián-Gallés, N. (2012). Cortical thickness predicts individual differences in lexico-phonological representation in highly-skilled bilinguals. *Neurobiology of Language Conference*. San Sebastián, Spain.
- Ressel, V., Pallier, C., Ventura-Campos, N., **Díaz, B.**, Roessler, A., Ávila, C., & Sebastián-Gallés, N. (2012). Differences in Heschl Gyrus volumes between Monolinguals and Bilinguals. *V Brainglot Workshop*. Barcelona, Spain.
- Díaz, B.**, Hintz, F., Kiebel, S.J., & von Kriegstein, K. (2011). Dysfunction of the medial geniculate body during in dyslexia. *Symposium Vocalization and audition: Cross-species comparison*. Leipzig, Germany.
- Ressel, V., Pallier, C., Ventura-Campos, N., **Díaz, B.**, Roessler, A., Ávila, C., & Sebastián-Gallés, N. (2011). Auditory cortex morphology in monolinguals and bilinguals. *Barcelona Computational and Systems Neuroscience Meeting (BARCSYN)*. Barcelona, Spain.
- Ressel, V., Pallier, C., Ventura-Campos, N., **Díaz, B.**, Roessler, A., Ávila, C., & Sebastián-Gallés, N. (2011). Bilingualism and auditory cortex morphology. *International Conference on Cognitive Neuroscience*. Palma de Mallorca, Spain.
- Ressel, V., Pallier, C., Ventura-Campos, N., **Díaz, B.**, Roessler, A., Ávila, C., & Sebastián-Gallés, N. (2010). Anatomical differences in Heschl Gyrus between Monolinguals and Bilinguals. *III Brainglot Workshop*. Castelló de la Plana, Spain.
- Díaz, B.**, Sebastián-Gallés, N., Erdozia, K., Mueller, J., & Laka, I. (2008). Age of acquisition and proficiency on L2 syntactic processing. *International Congress of Psychology*. Berlin, Germany.
- Díaz, B.**, Sebastián-Gallés, N., Erdozia, K., Mueller, J., & Laka, I. (2007). The impact of proficiency in the syntactic processing/learning of a second language: and ERP study. *Research Workshop Psychology-UB: Brain, Cognition & Behaviour*. Barcelona, Spain.
- Díaz, B.**, Sebastián-Gallés, N., Erdozia, K., Mueller, J., & Laka, I. (2007). Diferencias individuales en la competencia de una segunda lengua y edad de adquisición: evidencia electrofisiológica. *VIII Simposio de Psicolingüística*. Palma de Mallorca, Spain.
- Vera-Constán, F., **Díaz, B.**, & Sebastián-Gallés, N. (2005). Plasticidad en la percepción de fonemas en la lengua materna. *VII Simposio de Psicolingüística*. Valencia, Spain.

Díaz, B., Baus, C., Costa, A., & Sebastián-Gallés, N. (2004). The relationship between perception and production in L2 categories. *Architectures and Mechanisms for Language Processing*. Aix-en-Provence, France.

Seminar presentations

Díaz, B., Hintz, F., Kiebel, S.J., & von Kriegstein, K. (2010). Dysfunction of the medial geniculate body during in dyslexia. *Psychology Research Colloquium*. University of Leipzig, Leipzig, Germany.

Other Professional Experience

Teaching experience

2007: Core Subject “Perception and Attention”, Faculty of Psychology, Universitat de Barcelona, Spain (6 ECTS credits).

1999: Assistant in the seminar “Analysis of psychometric test: The METRIX Engine software”, Faculty of Psychology, Universidad de Barcelona (15 hours).

Service to the academic community

Manuscript reviewer for the journals ‘Journal of Neuroscience’, ‘Cognition’, ‘Brain and Language’, ‘Journal of Experimental Psychology: Human Perception and Performance’, ‘Developmental Science’, ‘Language learning’, ‘Applied Psycholinguistics’, ‘Frontiers in Systems Neuroscience’, ‘Language and Cognitive Processes’, ‘International Journal of Bilingualism’, ‘Journal of Neurolinguistics’, ‘Language and Speech’, ‘Learning and Individual Differences’ and the conference “Phonetics and Phonology in Iberia 2011”.

Expert I+D research project evaluator for the Spanish *National Evaluation and Foresight Agency (ANEP)*.

Organization of R+D activities

2008: Administration of the interuniversity Master-PhD program “Ciencia Cognitiva i Llenguatge”, Spain.

2004: Assistant to the organization of the “First Joint Conference of the European Society for Philosophy and Psychology”, Barcelona, Spain.

Dissemination activities to the general public

2015: Participation in the Brain Awareness Week with the talk “When learning to read is a challenge: The brain basis of Developmental Dyslexia”. Barcelona, Spain.

2014: Committee of the Neuro-Unconference III within the activities of the Brain Awareness Week. Barcelona, Spain.

2013: Committee of the Neuro-Unconference II within the activities of the European Month of the Brain. Barcelona, Spain.

2013: Participation in the Brain Awareness Week with the talk “When learning to read is a challenge: The brain basis of Developmental Dyslexia”. Barcelona, Spain.

Congresses and workshops (only attendance)

International summer school on multimodal approaches in Neuroscience (2010). Leipzig, Germany.// Course on Statistical Parametric Mapping (SPM) for neuroimaging (2010). London, United Kingdom.// III Meeting of the Net of Cognitive Neuroscience: Workshop on advances in the study of brain activity (2007). Madrid, Spain.// Nijmegen Lectures (2006). Nijmegen, The Netherlands.// II Meeting of the Net of Cognitive Neuroscience: Workshop on analysis of multichannel signals (2006). Madrid, Spain.// ISCA Workshop on Plasticity in Speech

Perception (2005). London, United Kingdom.// BrainVision User Workshop (2005). Barcelona, Spain.// Besa and BrainVogayer User Workshop (2005). Barcelona, Spain.// Symposium Brain functioning: advances in magnetic resonance imaging (2004). Barcelona, Spain.// 6th Symposium of Psycholinguistics (2003). Barcelona, Spain.