

Esti Blanco-Elorrieta

New York University
Psychology Department
10 Washington Place, 10003, New York

Email: eb134@nyu.edu
Website: <https://estiblancoelorrieta.github.io/>
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EDUCATION

Ph.D.: Psychology: Cognition and Perception (2015 – Present).
Institution: New York University.
Supervisor: Liina Pyykkänen.

M.Sc.: Cognitive Neuroscience of language (2013).
Institution: Basque Center on Cognition, Brain and Language (BCBL).
Dissertation: An alternative explanation for asymmetric switch-costs in unbalanced bilinguals.
Supervisors: Jon Andoni Duñabeitia and Clara Martin.

B.A.: Basque philology and Linguistics (honors) (2012).
Institution: University of Deusto.

Other Courses:

Summer Course: Genetics & Neurobiology of Language Course. Cold Spring Harbor Laboratories (2016).

Summer University: German language and literature. Westfälische Wilhelms-Universität. Münster, Germany (2011).

Summer University: German language and literature. Heinrich-Heine Universität. Düsseldorf, Germany (2010).

FELLOWSHIPS AND AWARDS

- 2017: Society of the Neurobiology of Language (SNL) predoctoral fellow merit award.
- 2017: Woodcock Institute Grant Research Award (\$9,951).
- 2016: Helmsley Fellowship for cross-disciplinary research (\$2,350).
- 2016: New York University, Dean's Student Travel Grant.
- 2015: Neurobiology of Language Conference: Travel Award.
- 2015: New York University: MacCracken Fellowship for Doctoral studies.
- 2014: La Caixa Foundation: fellowship for Graduate Studies in North America (~\$75,000 per year, dependent on tuition fees).
- 2012: Basque Center on Cognition, Brain and Language: waiver of M.Sc. tuition fees.
- 2011: Basque Government: grant for undergraduate research projects (€3,300).
- 2010: University of Deusto: grant for undergraduate research projects (€3,000).
- 2008: Basque Government: Distinguished Academic scholarship (waiver of first year University matriculation fees).

MANUSCRIPTS AND PUBLICATIONS

Blanco-Elorrieta, E*, Gwilliams, L*, Marantz, A., & Pylkkänen, L. (in prep.). Neural bases of perceptual adaptation to foreign accents.

Blanco-Elorrieta, E., Ding, N., & Poeppel, D. (in prep.). Neural tracking of bilingual speech in noise.

Valenti, A., **Blanco-Elorrieta, E.**, & Scheutz, M. (in prep.). An adaptive computational model of bilingual language switching.

Blanco-Elorrieta, E., Emmorey, K., & Pylkkänen, L. (under review). Decomposing task switching: MEG evidence from bimodal language switching.

Blanco-Elorrieta, E., Kastner, I., Emmorey, K., & Pylkkänen, L. (2018). A shared neurobiology for building phrases in signed and spoken language. *Scientific Reports*

Blanco-Elorrieta, E. Emmorey, K., & Pylkkänen, L. (2017). Decoding Language Switching in the Bilingual Brain: evidence from simultaneous speech and sign production. *Cognitive Computational Neuroscience (CCN)*.

Blanco-Elorrieta, E., Ferreira, V.S., Del Prato, P., & Pylkkänen, L. (2017). The priming of basic combinatorial responses in MEG. *Cognition*.

Blanco-Elorrieta, E. & Pylkkänen, L. (2017). Bilingual language switching in the lab vs. in the wild: The spatio-temporal dynamics of adaptive language control. *The Journal of Neuroscience*, 37: 9022-9036.

Blanco-Elorrieta, E. & Pylkkänen, L. (2016). Bilingual language control in perception vs. action: MEG reveals comprehension control mechanisms in anterior cingulate cortex and domain-general production control in dorsolateral prefrontal cortex. *The Journal of Neuroscience* 36(2): 290 – 301.

Blanco-Elorrieta, E. & Pylkkänen, L. (2016). Composition of complex numbers: Delineating the computational role of the left anterior temporal lobe. *NeuroImage*, 124, 194 - 203.

Blanco-Elorrieta, E. & Pylkkänen, L. (2015). Brain bases of language selection: MEG evidence from Arabic-English bilingual language production. *Frontiers in Human Neuroscience*, 9.

Pylkkänen, L., Bemis, D.K. & **Blanco-Elorrieta, E.** (2014). Building phrases in language production: An MEG study of simple composition. *Cognition*, 133, 371-384.

ORAL PRESENTATIONS

Blanco-Elorrieta, E. Emmorey, K., & Pylkkänen, L. (2018). Task switching decomposed: MEG evidence from bimodal language switching. Talk to be presented at the Cognitive Neuroscience Society (CNS) Annual Conference 2018, Boston, USA.

Blanco-Elorrieta, E. (2017). The neurocognition of bilingualism. Talk presented at the Young Leaders of the Americas Initiative (YLAI) in New York, NY, USA.

Blanco-Elorrieta, E. Emmorey, K., & Pylkkänen, L. (2017). Turning a language “off” is cognitively effortful, but turning a language “on” is not: MEG evidence from bimodal language switching. Talk presented at the Society for the Neurobiology of Language Annual Conference 2017, Baltimore, USA.

Blanco-Elorrieta, E. (2017). Bilingual language switching in the lab vs. in the wild: The spatio-temporal dynamics of adaptive language control. Talk presented at the Summer school on Bilingualism and Multilingualism. Barcelona, Spain.

Blanco-Elorrieta, E. & Pylkkänen, L. (2016). While language-switching in the lab localizes in anterior cingulate cortex, comprehending code-switches in the wild engages the auditory cortex: MEG evidence from Arabic-English bilinguals. Talk presented at the 2016 Amlap Conference in Bilbao, Basque Country.

Blanco-Elorrieta, E. (2016). Brain bases of bilingual language selection and switching: Evidence from production and comprehension. Invited talk at the Graduate Center of the City University of New York (CUNY), New York, USA.

Blanco-Elorrieta, E., Ferreira, V.S., Del Prato, P., & Pylkkänen, L. (2016). The priming of basic combinatory responses in MEG. Talk presented at the 29th Annual CUNY Conference on Human Sentence Processing, Florida, USA.

Blanco-Elorrieta, E. & Pylkkänen, L. (2015). Switch mechanisms revealed by MEG: What is special about language switching? Talk presented at the Neuroscience of Language Workshop 2015, Abu Dhabi, UAE.

Blanco-Elorrieta, E. & Pylkkänen, L. (2015). Bilingual language control: domain general in production but not comprehension? Evidence from MEG. Talk presented at the 5th Linguistics in the Gulf Conference 2015, Doha, Qatar.

Blanco-Elorrieta, E. & Pylkkänen, L. (2015). Brain bases of language selection: MEG evidence from Arabic-English bilingual language production. Talk presented at the NYUAD Annual Research Conference 2015, Abu Dhabi, U.A.E.

POSTER PRESENTATIONS

Blanco-Elorrieta, E. Emmorey, K., & Pylkkänen, L. (2017). Decoding Language Switching in the Bilingual Brain: evidence from simultaneous speech and sign production. Cognitive Computational Neuroscience (CCN), New York, USA.

Blanco-Elorrieta, E., Ferreira, V.S., Del Prato, P., & Pylkkänen, L. (2016). The priming of basic combinatorial responses in MEG. Poster presented at the Society for the Neurobiology of Language Annual Conference 2016, London, UK.

Blanco-Elorrieta, E. & Pylkkänen, L. (2016). While language-switching in the lab localizes in anterior cingulate cortex, comprehending code-switches in the wild begins in auditory cortex: MEG evidence from Arabic-English bilinguals. Poster presented at the Society for the Neurobiology of Language Annual Conference 2016, London, UK.

Blanco-Elorrieta, E., Ferreira, V.S., Del Prato, P., & Pylkkänen, L. (2016). The priming of basic combinatorial responses in MEG. Poster presented at the Cognitive Neuroscience Society (CNS) annual meeting in New York City, USA.

Blanco-Elorrieta, E. & Pylkkänen, L. (2016). Bilingual language control in perception vs. action: MEG reveals comprehension control mechanisms in anterior cingulate cortex and domain-general production control in dorsolateral prefrontal cortex. Poster presented at the 29th Annual CUNY Conference on Human Sentence Processing, Gainesville, USA.

Blanco-Elorrieta, E. & Pykkänen, L. (2015). Switching in perception vs. action revealed by MEG: Reactive control in the ACC and proactive control in the dorsolateral PFC. Society for the Neurobiology of Language Annual Conference 2015, Chicago, USA.

Blanco-Elorrieta, E. & Pykkänen, L. (2015). Composition of Complex Numbers: Delineating the computational role of the left anterior temporal lobe. Society for the Neurobiology of Language Annual Conference 2015, Chicago, USA.

Oseki Y., Gwilliams, L., Gaston, P., **Blanco-Elorrieta, E.**, Pykkänen, L. & Marantz, A. (2015). Neural dynamics of morphological and phrasal composition. Society for the Neurobiology of Language Annual Conference 2015, Chicago, USA.

Blanco-Elorrieta, E. & Pykkänen, L. (2014). Brain bases of language selection: MEG evidence from Arabic-English bilingual language production. Society for the Neurobiology of Language Annual Conference, Amsterdam, The Netherlands.

Martin, C.D., **Blanco-Elorrieta, E.**, & Duñabeitia, J.A. (2013). An alternative explanation to asymmetrical switch-costs in unbalanced bilinguals. Annual Psychonomics Conference, Toronto, Canada.

TEACHING

Teaching assistant:

- 2018: Psychology: *Cognition*. Teaching assistant for Prof. Trenton Jerde (Undergraduate).
2017: Psychology: *Cognition*. Teaching assistant for Prof. Bob Rehder (Undergraduate).
2016: Psychology and Linguistics: *Neural Bases of Language*. Teaching assistant for Prof. Liina Pykkänen (Graduate and Undergraduate).

Guest lectures:

- 2017: *Neurolinguistics*. Lecture on bilingual language control, bilingualism and aging (Young Leaders of the Americas Initiative (YLAI at NYC)).
2017: *Cognition*. Lecture on language and cognition (NYU).
2016: *Neural Bases of Language*. Lecture on the neurobiology of bilingualism (NYU).
2016: *Neural Bases of Language*. Lecture on the neural bases of perceptual attunement (NYU).

RESEARCH POSITIONS

- 2013- 2015: Research assistant.
Institution: New York University Abu Dhabi (Neuroscience of Language Lab).
Supervisors: Alec Marantz and Liina Pykkänen.
- 2012 – 2013: Research assistant.
Institution: Basque Center on Cognition, Brain and Language (BCBL).
- 2011 - 2012: Research assistant.
Institution: University of Deusto (Tesitek Linguistics Research Group).
Supervisor: Rosa Miren Pagola.

ACADEMIC SERVICE

a) Ad hoc reviewer for:

Journals: NeuroImage; Brain and Language; Language, Cognition and Neuroscience; Journal of Cognitive Psychology; Journal of Neurolinguistics.

Grants: Polish Ministry of Science and Higher Education, Polish National Centre for Research and Development.

b) Student Representative. Undergraduate linguistics student body (2008 –2012).

LANGUAGES

- Basque: Native speaker. Certificate of Proficiency in Basque (EGA).
- Spanish: Native speaker.
- English: Cambridge Certificate of Proficiency in English (CPE), 113 internet Based Test TOEFL.
- German: Upper Intermediate (B2 European Framework of Reference).
- Galician: Elementary (A2 European Framework of Reference).
- French: Elementary (A1 European Framework of Reference).