

Esti Blanco-Elorrieta

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

Email: eb134@nyu.edu
Website: <https://estiblancoelorrieta.github.io/>
Updated: July, 2019

EDUCATION

- Ph.D.:** Psychology: Cognition and Perception (2015 – Present).
Institution: New York University.
Supervisor: Liina Pykkänen.
- Fellow: Department of Psychology (2018 - 2019)
Institution: Harvard University
Supervisor: Alfonso Caramazza
- 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

- 2019: Martin Braine Fellowship in Psychology
- 2018: Dingwall Foundation: Dissertation Fellowship in the Cognitive, Clinical, and Neural Foundations of Language (\$30,000).
- 2018: New York University: Dean's Student Travel Grant.
- 2017: Predoctoral fellow merit award: Society of the Neurobiology of Language (SNL).
- 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 (full funding of PhD tuition and maintenance).
- 2014: La Caixa Foundation: fellowship for Graduate Studies in North America (~\$75,000 per year, dependent on tuition fees).
- 2012: BCBL: academic scholarship 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 (awarded to the top 1% students graduating high school in the country).

MANUSCRIPTS AND PUBLICATIONS

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

Blanco-Elorrieta & Caramazza, A. (*under review*). A selection-by-activation model of bilingual lexical access.

Blanco-Elorrieta, E., Ding, N., Pykkänen, L., & Poeppel, D. (*under review*). Understanding requires tracking: Noise and knowledge interact in bilingual language comprehension.

Liu, H., Zhang, Y., **Blanco-Elorrieta, E.,** Hea, Y., Chen, B. (*under review*). Role of proactive control on subcomponents of language control: Evidence from trilinguals.

Blanco-Elorrieta, E., & Pykkänen, L. (2018). Ecological validity in bilingualism research and the bilingual advantage. *Trends in Cognitive Sciences*, 22(12), 1117-1126

Blanco-Elorrieta, E., Emmorey, K., & Pylkkänen, L. (2018). Language switching decomposed through MEG and evidence from bimodal bilinguals. *Proceedings of the National Academy of Sciences*, 115(39), 9708-9713.

Blanco-Elorrieta, E., Kastner, I., Emmorey, K., & Pylkkänen, L. (2018). A shared neurobiology for building phrases in signed and spoken language. *Scientific Reports*, 8, 5492.

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)*.

Fyshe, A., **Blanco-Elorrieta, E.** & Pylkkänen, L. (2017). The neural representation of concepts during composition. *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*, 70, 49-63.

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.

TALKS

Blanco-Elorrieta, E. (2019). The challenges of understanding bilingual speech in noise. *British Academy for Cognitive Neuroscience*. University of Cambridge, UK.

Blanco-Elorrieta, E. (2018). The neurobiology of bilingualism: Insight from MEG. *The bilingual mind seminars*. University of the Basque Country, Basque Country.

Blanco-Elorrieta, E. (2018). The neurobiology of bilingualism: Insight from MEG. *Language and Cognition Colloquium*. Harvard University, USA.

Blanco-Elorrieta, E. (2018). The neurobiology of bilingualism: insight from MEG. *Psychology Cognitive Brown Bag*. University of California San Diego (UCSD), USA.

Blanco-Elorrieta, E. Emmorey, K., & Pykkänen, L. (2018). Task switching decomposed: MEG evidence from bimodal language switching. Cognitive Neuroscience Society (CNS), Boston, USA.

Blanco-Elorrieta, E. (2017). The neurocognition of bilingualism. Young Leaders of the Americas Initiative (YLA), New York, USA.

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

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

Blanco-Elorrieta, E. & Pykkänen, 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. 22nd AMLaP Conference in Bilbao, Basque Country.

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

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

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

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

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

POSTER PRESENTATIONS

Blanco-Elorrieta, E., Gwilliams, L., Pylkkänen, L., & Maranz, A. (2019). Prefrontal cortex aids adaptation to accented speech. Cognitive Neuroscience Society (CNS) Conference, San Francisco, USA.

Blanco-Elorrieta, E., Ding, N., Pylkkänen, L., & Poeppel, D. (2018). The impoverished comprehension of non-native speech in noise. Society for Neuroscience (SfN) Annual Conference, San Diego, USA.

Blanco-Elorrieta, E., Ding, N., Pylkkänen, L., & Poeppel, D. (2018). The impoverished comprehension of non-native speech in noise. Society for the Neurobiology of Language (SNL) Annual Conference, Quebec City, Canada.

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

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.

Fyshe, A., **Blanco-Elorrieta, E. & Pylkkänen, L. (2017).** The neural representation of concepts during composition. Cognitive Computational Neuroscience (CCN), New York, USA.

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

Blanco-Elorrieta, E., Ferreira, V.S., Del Prato, P., & Pylkkänen, L. (2016). The priming of basic combinatory responses in MEG. Cognitive Neuroscience Society (CNS) Annual Conference, New York, USA.

Blanco-Elorrieta, E. & Pykkänen, 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. 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 (SNL) Annual Conference, 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 (SNL) Annual Conference, 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 (SNL) Annual Conference, 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 (SNL) 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:

- 2019: Psychology and Linguistics: *Neural Bases of Language*. (Graduate and Undergraduate).
- 2018: Psychology: *Introduction to Psychology*. Grader position (Undergraduate).
- 2018: Psychology: *Cognition* (Undergraduate).
- 2017: Psychology: *Cognition* (Undergraduate).
- 2016: Psychology and Linguistics: *Neural Bases of Language*. (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).

ACADEMIC SERVICE

a) Ad hoc reviewer for:

Journals: Cognition; Scientific Reports; Human Brain Mapping; Proceedings of the National Academy of Sciences, Plos Biology; Journal of Neuroscience; NeuroImage; Brain and Language; Language, Cognition and Neuroscience; Journal of Cognitive Psychology; Journal of Neurolinguistics, Bilingualism: Language and Cognition.

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

b) Elected Student Representative.

Society for the Neurobiology of Language (2019-2022)
Undergraduate linguistics program (2008 –2012).

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.

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).