Laura E. Gwilliams

laura.gwilliams@nyu.edu

10 Washington Place, 6th Floor Manhattan, New York, NY, 10003, USA

http://lauragwilliams.github.io

Education

Ph.D 2015 - Present

Cognition and Perception

New York University, USA

Supervisors: Dr. Alec Marantz & Dr. David Poeppel

M.Sc. <u>2012 - 2013</u>

Cognitive Neuroscience of Language

Basque Center on Cognition, Brain and Language (BCBL), Spain

Grade: Excellent

Supervisors: Dr. Arthur Samuel & Dr. Philip Monahan

B.A. 2009 - 2012

Linguistics

Cardiff University, UK

Grade: 1st Class with honours Supervisor: Dr. Lise Fontaine

Awards and Scholarships

- 2016 Dean's Travel Grant, New York University
- 2016 Travel Award, Society for the Neurobiology of Language Conference
- 2016 Helmsley Fellowship, Cold Springs Harbor

(Genetics and Neurobiology of Language Course attendance fee)

2015 Henry M. MacCracken Fellowship, New York University

1

(Full funding of PhD tuition and maintenance)

2012 *Dell Hymes Commendation for Academic Achievement,* Cardiff University (Awarded to the top graduating student within the department)

Publications

Brodbeck, C., Gwilliams, L. & Pylkkänen, L. (2016). Language in context: MEG evidence for modality general and specific responses to reference resolution. *eNeuro*. [PDF].

Gwilliams, L., Lewis, G. & Marantz, A. (2016). Functional characterisation of letter-specific responses in time, space and current polarity using magneto-encephalography. *NeuroImage*. [PDF].

Brodbeck, C., Gwilliams, L. & Pylkkänen, L. (2015). EEG can track the time course of reference resolution in small visual worlds. *Frontiers in Psychology*. [PDF].

Gwilliams, L. & Marantz, A. (2015). Tracking non-linear prediction in a linear speech stream: Influence of morphological structure on spoken word recognition. *Brain and Language*. [PDF].

Gwilliams, L., Monahan, P., & Samuel, A. (2015). Sensitivity to morphological composition: Evidence from grammatical and lexical decision tasks. *Journal of Experimental Psychology: Language, Memory and Cognition*. [PDF].

Gwilliams, L. & Fontaine, L. (2015). Indeterminacy in process type classification. *Functions of Language*. [PDF].

Politzer-Ahles, S., & Gwilliams, L. (2015). Involvement of prefrontal cortex in scalar implicatures: Evidence from magnetoencephalography. *Language and Cognitive Neuroscience*. [PDF].

Manuscripts

Gwilliams, L., Linzen, T., Poeppel, D. & Marantz, A. (Submitted). In spoken word recognition the future predicts the past.

Gwilliams, L. & Marantz, A. (Submitted). Recognising unseen stems: How extrapolation of grammatical rules dictates morphological processing.

Invited Talks

Gwilliams, L. (2016, November). In spoken word recognition the future predicts the past. HLP Lab, University of Rochester. NY, USA.

Gwilliams, L. & Marantz, A. (2016, February). Taking Morphology Seriously: MEG Studies of Morphological Representations. Presentation at 17th International Morphology Meeting, Vienna, Austria

Oral Presentations

Gwilliams, L. Linzen, T., Neophytou, K., Poeppel, D. & Marantz, A. (2016, September). *Phonological commitment and sensitivity to subphonemic detail are independent*. Presentation at AMLAP. Bilbao, Basque Country.

Stockall, L., Manouilidou, C., Gwilliams, L. & Marantz, A. (2016, February). Un/Repacking argument and event structure restrictions on prefixation: MEG evidence. Workshop on the syntax of argument structure: empirical advancements and theoretical relevance. Leipzig, Germany.

Gwilliams, L. & Marantz, A. (2015, June). *Abstract representation of the root morpheme: A magnetoencephalography study of spoken Arabic*. Presentation at the 9th Morphological Processing Conference, Potsdam, Germany.

Gwilliams, L. & Marantz, A. (2015, March). *Decomposition of spoken Arabic words into root morphemes during processing: Evidence from magnetoencephalography*. Presentation at the Linguistics in the Gulf 5 Conference, Doha, Qatar

Gwilliams, L. (2015, March). *Letter specific sensitivities in the brain: located in time, space and current direction.* Presentation at the Neuroscience of Language Workshop 2015, Abu Dhabi, UAE

Gwilliams, L., & Marantz, A. (2015, February). *Non-linear processing of a linear speech stream*. Presentation at the NYUAD Annual Research Conference 2015, Abu Dhabi, UAE.

Gwilliams, L. & Fontaine, L. (2014, July). *Ambiguity in process type selection in systemic functional linguistics*. Presentation at the 25th European Systemic Functional Linguistics Conference, Paris, France.

Brodbeck, C., Gwilliams, L. & Pylkkänen, L. (2014, February). *Reference resolution and prediction in a visual world: MEG evidence from English and Arabic.* Presentation at the NYUAD Annual Research Conference 2014, Abu Dhabi, UAE.

Poster Presentations

Gwilliams, L. Linzen, T., Neophytou, K., Poeppel, D. & Marantz, A. (2016, September). *Phonological commitment and sensitivity to subphonemic detail are independent* Presentation at the Society for the Neurobiology of Language. London, UK.

Mow, J., Gwilliams, L., Khalighinsjad, B., Mesgarani, N. & Marantz, A. (2016, September). *Encoding and organisation of phonemes by feature in STG*. Poster presentation at the Society for the Neurobiology of Language. London, UK.

Gwilliams, L., Linzen, T., Neophytou, K., Warnke, L., Poeppel., D & Marantz, A. (2016, April). *Early and asymmetric sensitivity to phonological boundaries and within-category variation across hemispheres*. Poster presented at the 2016 CNS Annual meeting, New York, USA

Brodbeck, C., Gwilliams, L. & Pylkkanen, L. (2016, April). *Amodal reference resolution in medial parietal cortex*. Poster presented at the 2016 CNS Annual meeting, New York, USA

Gwilliams, L., Linzen, T., Neophytou, K., Warnke, L., Poeppel., D & Marantz, A. (2016, March). *Phoneme ambiguity is reflected very early in primary auditory cortex*. Poster presented at the 29th Annual CUNY Conference on Human Sentence Processing, Florida, USA

Brodbeck, C., Gwilliams, L. & Pylkkanen, L. (2016, March). *Modality general and specific brain responses during reference resolution*. Poster presented at the 29th Annual CUNY Conference on Human Sentence Processing, Florida, USA

Gwilliams, L. & Marantz, A. (2015, October). *Representations stems you can't see: An MEG study of morphological decomposition*. Poster presented at the Society for the Neurobiology of Language Conference, Chicago, USA

Stockall, L., Gwilliams, L., Manouilidou, C. & Marantz, A. (2015, October). *Access to lexical category and verb argument structure in the early stages of processing morphologically complex words: MEG investigations of prefixation.* Poster presented at the Society for the Neurobiology of Language Conference, Chicago, USA

Gaston, P., Gwilliams, L. & Marantz, A. (2015, October). *The time-course of cohort restriction in syntactic context: MEG evidence for a single auditory word-form.* Poster presented at the Society for the Neurobiology of Language Conference, Chicago, USA

Oseki, Y., Gwilliams, L., Blanco-Elorrieta, E., Gaston, P., Pylkkanen, L. & Marantz, A. (2015, October). *Neural Dynamics of Morphological and Phrasal Composition*. Poster presented at the Society for the Neurobiology of Language Conference, Chicago, USA

Brodbeck, C., Gwilliams, L. & Pylkkanen, L. (2015, October). *EEG can track the time course of successful reference resolution in small visual worlds.* Poster presented at the Society for the Neurobiology of Language Conference, Chicago, USA

Gwilliams, L., Lewis, G., & Marantz, A. (2014, August). *Revealing the cortical dynamics of letter string perception*. Poster presented at the Society for the Neurobiology of Language Conference, Amsterdam, Netherlands. [PDF].

Linzen, T., Gaston, P., Gwilliams, L. & Marantz, A. (2014, August). *Competition and prediction in the auditory processing of morphologically complex words*. Poster presented at the Society for the Neurobiology of Language Conference, Amsterdam, Netherlands. [PDF].

Gwilliams, L., Monahan, P, & Samuel, A. (2013, June). *Why an Avalanche is faster than an Explosion*. Poster presented at The 8th International Morphological Processing Conference, Cambridge, UK. [PDF].

Gwilliams, L., Monahan, P., & Samuel, A. (2013, March). *Decompositional processing of nominalisations*. Poster presented at the Basque Center on Cognition, Brain and Language (BCBL), San Sebastian, Spain.

Teaching

2016: Teaching Assistant

Mathematical Tools for Cognitive and Neural Science Departments: Psychology and Neural Science

Instructors: Dr. Eero Simoncelli & Dr. Pascal Wallisch

2016: Guest Lecturer

Neural Bases of Language: Auditory Lexical Access

Departments: Psychology and Linguistics

Instructor: Dr. Liina Pylkkanen

Guest Lecturer

Neural Bases of Language: Perceptual Attunement

Departments: Psychology and Linguistics

Instructor: Dr. Liina Pylkkanen

Guest Lecturer

Linguistics as a Cognitive Science

Departments: Psychology and Linguistics

Instructor: Dr. Alec Marantz

2011: Teacher

GCSE English (High-School)
Bridgend Home Educators

Research Positions

2013 - 2015	Research Assistant, New York University Abu Dhabi
	Supervisors: Dr. Alec Marantz and Dr. Liina Pylkkänen
2012 - 2014	Research Assistant, Cardiff University
	Supervisor: Dr. Lise Fontaine
2011 - 2012	Graduate Research Team, Cardiff University

Mentoring

Spring 2017: Supervised an undergraduate intern.

Project title: Perceptual attunement to accented speech

Spring 2016: Supervised an undergraduate independent study student

Project title: Unconscious, arbitrary visual symbols as a cue for phoneme identification

Fall 2015: Supervised an undergraduate intern

Reviewer for

- NeuroImage
- Psychonomic Bulletin & Review
- Brain & Language
- PLOS ONE