

# Jason W. Gullifer

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## Employment

NIH Postdoctoral Fellow (09/2015 – present)  
*Psychology Department, McGill University*  
Supervisors: Debra Titone & Denise Klein

## Education

Ph.D. *Penn State University* (08/2015)  
Dual-title, Psychology and Language Science  
Dissertation: *Using syntactic priming to identify cross-language constraints in bilingual language processing*  
Advisors: Judith Kroll & Paola Dussias

M.S., *Penn State University* (08/2011)  
Psychology  
Thesis: *The effect of syntactic constraints on parallel activation of words in the bilingual's languages*  
Advisors: Judith Kroll & Paola Dussias

B.A., cum laude, *University of Massachusetts, Amherst* (05/2007)  
Linguistics and Psychology; Minor in German  
Thesis: *Processing Reverse Sluicing*  
Advisors: Charles Clifton & Lyn Frazier

## Funding and Awards

Social Sciences and Humanities Research Council Insight Development Grant, 430-2016-01037 (Co-PI: Debra Titone): *Uncovering the Predictive Power of Multilingual Social Networks: Longitudinal Impacts on Language Ability and Educational Outcomes*, 2016-2018 (\$65,752).

National Institutes of Health Ruth L. Kirschstein National Research Service Award (NRSA), 1F32HD082983-01A1 (Co-PIs: Debra Titone, Denise Klein): *Determining the Neurocognitive Consequences of a Natural Switch in Language Immersion Context: Evidence from the Uniquely Bilingual City of Montreal*, 2015-2018 (\$158,805).

Bilingualism: Language and Cognition International Symposium on Bilingualism 10 Poster Prize: *Using syntactic priming to identify cross-language constraints in bilingual language processing*, 2015 (Second Place).

National Science Foundation Doctoral Dissertation Research Grant, BCS- 1251896 (PI: Judith F. Kroll, Co-PI: Paola Dussias): *Using syntactic priming to identify cross-language constraints in bilingual language processing*, 2013-2014 (\$17,513).

Penn State University Liberal Arts College Dissertation Support Grant (RGSO): *Using syntactic priming to identify cross-language constraints in bilingual language processing*, 2013 (\$5,000).

Penn State University Center for Language Science PIRE Fellowship: *The effect of immersion on cross-language activation during visual word recognition*, 2011 (Travel Award).

National Science Foundation Graduate Research Fellowship Program (GRFP): *The effect of syntactic constraints on parallel activation of words in the bilingual's languages*, 2011 (Honorable Mention).

## **Publications**

Gullifer, J. W., Kroll, J. F., Dussias, P. E., Berry, G. M., & Navarro-Torres, C. (submitted). What about the syntax? Bilingual word recognition in sentence context. *Cognition*.

Titone, D., Gullifer, J., Subramaniapillai, S., Rajah, N., & Baum, S. (accepted). History-inspired reflections on the bilingual advantages hypothesis. In (Eds.), *Growing Old with Two Languages: Effects of Bilingualism on Cognitive Aging*. Amsterdam: John Benjamins Publishing.

Dussias, P., Poepsel, T., & Gullifer, J. (2016). Psycholinguistics in the wild: Switching costs in Spanish-Palenquero word switching. In Schwegler, A., & McWhorter, J., Ströbel, L. (Eds.), *The Iberian Challenge: Creole Languages Beyond the Plantation Setting*. Madrid/Frankfurt: Iberoamericana/Vervuert Verlag.

Kroll, J.F., Gullifer, J., & Zirnstein, M. (2016). Literacy in adulthood: Reading in two languages. In Nicoladis, E., & Montanari, S. (Eds.), *Lifespan Perspectives on Bilingualism* (pp. 225-245). Washington, DC: American Psychological Association. doi: 10.1037/14939-013.

Kroll, J. F., Gullifer, J. W., McClain, R., Rossi, E., & Martín, M.C. (2015). Selection and control in bilingual comprehension and production. In J. Schwieter, (Ed.), *Cambridge Handbook of Bilingualism* (pp. 485-507). Cambridge: Cambridge University Press. doi:10.1017/CBO9781107447257.021

Kroll, J. F., Gullifer, J. W., & Rossi, E. (2013). The multilingual lexicon: The cognitive and neural basis of lexical comprehension and production in two or more languages. In C. Polio (Ed.), *Annual Review of Applied Linguistics* (Vol. 33, pp. 102–127). Cambridge: Cambridge University Press. doi:10.1017/S0267190513000111

Gullifer, J. W., Kroll, J. F., & Dussias, P. E. (2013). When language switching has no apparent cost: Lexical access in sentence context. *Frontiers in Psychology*, 4, 1–13. doi:10.3389/fpsyg.2013.00278

## Conference Posters & Presentations

Gullifer, J., & Titone, D. (2016). The impact of single-word code switching on bilingual sentence reading – Intense at the switch but merciful downstream. Paper presented at 57th Annual Meeting of the Psychonomic Society. Boston, Massachusetts.

Gullifer, J. W., Chai, X., Pivneva, I., Whitford, V., Baum, S., Klein, D., & Titone, D. (2016). *Context of bilingualism shapes intrinsic functional connectivity*. Paper presented at the Canadian Society for Brain, Behaviour, and Cognitive Science. Ottawa, Ontario.

Gullifer, J. W., Berry, G. M., Navarro-Torres, C. A., Kroll, J., Dussias, P. E. (2016). *What about the syntax? Bilingual word recognition in sentence context*. Poster presented at the International Meeting of the Psychonomic Society. Granada, Spain.

Gullifer, J., Kroll, J., Dussias, P., Navarro-Torres, C., Berry, G. (2015). *Using syntactic priming to identify cross-language constraints in bilingual language processing*. Poster presented at Multiple Perspectives on Bilingualism and the Brain. Montreal, Quebec.

Gullifer, J., Kroll, J., Dussias, P., Navarro-Torres, C., Berry, G. (2015). *Using syntactic priming to identify cross-language constraints in bilingual language processing*. Poster presented at the 10th International Symposium on Bilingualism (ISB10). New Brunswick, New Jersey.

Khan, K., Gullifer, J., Kroll, J. (2013). *The relation between executive function skills and verbal fluency in monolinguals: Can we simulate the bilingual advantage?*. Poster presented at the 54th Annual Meeting of the Psychonomic Society. Toronto, Canada.

Dussias, P., Poepsel, T., Gullifer, J. (2013). *Psycholinguistics in the Wild: Switching Costs in Spanish-Palenquero Word Switching*. Paper presented at the 2013 Münster Hispanistentag (Spanish in Contact with Other Languages). Münster, Germany.

Gullifer, J., Dussias, P., Kroll, J. (2012). *Switching the Language of Sentence Context Produces No Apparent Costs to Lexical Access*. Poster presented at the 53rd Annual Meeting of the Psychonomic Society. Minneapolis, Minnesota.

Gullifer, J. W., Dussias, P., Kroll, J. F. (2012). *When language switching has no apparent cost: Lexical access in mixed and blocked language context*. Paper presented at the 2012 Mental Lexicon Conference. Montreal, Canada.

- Gullifer, J. W., Dussias, P., Kroll, J. (2012). *Speaking words in sentences: When the language of production does not guide lexical access*. Poster presented at the 2012 International Workshop on Language Production. New York, New York.
- Gullifer, J., Kroll, J., Dussias, P. (2011). Can cross-language lexical activity be modulated by language-specific syntax? Paper presented at the 8th International Symposium on Bilingualism (ISB8). Oslo, Norway.
- Gullifer, J., Kroll, J., Dussias, P. (2010). *Does language-specific syntax modulate cross-language lexical processing?* Poster presented at the 51st Annual Meeting of the Psychonomic Society. St. Louis, Missouri.
- Rossi, E., Gullifer, J., Dussias, P. E., Kroll, J. F. (2010). *Second language learners are not native speakers but they process some aspects of the syntax as if they were: Evidence from behavioral and ERP data*. Paper presented at the Donostia Workshop on Neurobilingualism. Donostia - San Sebastian, Spain,
- Gullifer, J., Kroll, J., Dussias, P. (2010). *Can bilinguals exploit language-specific syntax to modulate cross-language lexical activity?* Poster presented at the 16th Annual Conference on Architectures and Mechanisms for Language Processing (AMLaP 2010). York, England.
- Gullifer, J. W., Kroll, J. F., & Dussias, P. E.. (2010). *Bilingual sentence processing: The role of syntactic constraints in modulating cross-language lexical activity*. Poster presented at the 23rd Annual CUNY Conference on Human Sentence Processing. New York, New York.
- Valdés Kroff, J. R., Coffman, D., Dussias, P., Gerfen, C., Gullifer, J., Guzzardo Tamargo, R. (2010). *Differential processing of grammatical gender in a sentential context: Eye-tracking evidence from Spanish monolinguals and Spanish-English bilinguals*. Poster presented at the 23rd Annual CUNY Conference on Human Sentence Processing. New York, New York.
- Valdés Kroff, J. R., Coffman, D., Dussias, P.E., Gerfen, C., Gullifer, J., & Guzzardo Tamargo, R. (2009). *Comprehension reflects production: Investigating eye-movements in Spanish-English code-switches*. Paper presented at the 15th annual Architectures and Mechanisms for Language Processing (AMLaP 2009). Barcelona, Spain.
- Dussias, P. E., Gerfen, C., Valdés Kroff, J. R., Gullifer, J., & Guzzardo Tamargo, R. E. (2009). *Asymmetrical use of gender information during the processing of unilingual and code-switched speech*. Paper presented at the 2009 European Society for Cognitive Psychologists. Krakow, Poland.
- Valdés Kroff, J. R., Guzzardo Tamargo, R. E., Dussias, P. E., Gerfen, C., & Gullifer, J. (2009). *Comprehension reflects production: Gender processing of code-switched utterances by Spanish-English bilinguals*. Paper presented at the 2009 Hispanic Linguistics Symposium. Rio Piedras, Puerto Rico.

- Valdés Kroff, J. R., Guzzardo Tamargo, R. E., Dussias, P. E., Gerfen, C., & Gullifer, J. (2009). *Processing costs in Spanish-English codeswitches: An eye-tracking study*. Paper presented at the 2009 Hispanic Linguistics Symposium. Rio Piedras, Puerto Rico.
- Valdés Kroff, J. R., Guzzardo Tamargo, R. E., Dussias, P. E., Gerfen, C., & Gullifer, J. (2009). *Processing spoken code-switches by Spanish-English bilinguals: A visual world study*. Paper presented at the 7th International Symposium on Bilingualism (ISB7). Utrecht, The Netherlands.
- Dussias, P.E., Botezatu, R., Gullifer, J., Kroll, J., & Schwartz, A. (2009). *Do syntactic constraints in sentence context eliminate parallel activation of words in the bilingual's languages?* Paper presented at the 7th International Symposium on Bilingualism (ISB7). Utrecht, The Netherlands.
- Valdés Kroff, J. R., Guzzardo Tamargo, R. E., Dussias, P. E., Gerfen, C., & Gullifer, J. (2008). *Processing grammatical gender in Spanish-English code-switches: A visual world study*. Paper presented at 2008 Second Language Research Forum (SLRF) Conference. Honolulu, Hawaii.
- Valdés Kroff, J. R., Guzzardo Tamargo, R. E., Dussias, P. E., Gerfen, C., & Gullifer, J. (2008). *The use of grammatical gender in the processing of spoken code-switches by adult Spanish-English bilinguals*. Poster presented at the International Conference on Models of Interaction in Bilinguals. Bangor, Wales, UK.
- Gullifer, J. (2008). *Processing Reverse Sluicing: A Contrast with Processing Filler-Gap Dependencies*. Poster presented at the 21st CUNY Conference on Human Sentence Processing. Chapel Hill, North Carolina.
- Valdés Kroff, J. R., Guzzardo Tamargo, R. E., Dussias, P. E., Gerfen, C., & Gullifer, J. (2008). *Grammatical gender in processing of Spanish-English code-switches: A visual world study*. Poster presented at the 21st CUNY Conference on Human Sentence Processing. Chapel Hill, North Carolina.

## Research Experience

**NIH Postdoctoral Fellow** (09/2016 – present)

*Center for Research on Brain, Language, and Music*

*Psychology Department, McGill University*

Supervisors: Debra Titone & Denise Klein

**Graduate Research Assistant** (08/2009 – 08/2015)

*Center for Language Science – Psychology Department, Penn State University*

Supervisors: Judith Kroll & Paola Dussias

Mentor and supervise undergraduate students in lab; conduct experiments; extract and analyze data.

**Research Technologist** (08/2007 – 08/2009)  
*Center for Language Science – Psychology Department, Penn State University*  
Supervisors: Judith Kroll & Paola Dussias

Program psycholinguistics experiments (including eye-tracking, behavioral); test participants; set-up new lab spaces (including rooms with ERP and behavioral setups); webmaster: create and maintain web-site for the CLS.

**Research Assistant** (08/2006 – 05/2007)  
*Psychology Department, University of Massachusetts, Amherst*  
Supervisors: Charles Clifton & Lyn Frazier

Conceptualize, design, program, and debug psycholinguistics experiments; test participants; extract and analyze data; write in-depth analysis of results.

- Thesis investigates processing differences between instances of reverse sluicing and filler-gap relations.

## Teaching Experience

**Workshop: R Programming for Beginners** (10/2016)  
*Graduate Association of Students in Psychology, McGill University*  
*Centre for Research on Brain, Language and Music*

**Guest Lecture: Cognition** (3/2016)  
*Department of Psychology, McGill University*  
“Introduction to bilingualism”

**Guest Lecture: Psychology Theory** (1/2016)  
*Department of Psychology, McGill University*  
“Introduction to R for data processing”

**Lecture: Data Processing and Analysis for Language Scientists using the R Statistical Package** (05/2013)  
*Department of Spanish, Italian, and Portuguese, Penn State University*

**Lecture: Introduction to Linguistics** (09/2012 – 12/2012)  
*Program in Linguistics, Penn State University*

**Guest Lecture: Introduction to Linguistics** (11/2012)  
*Program in Linguistics, Penn State University*  
“Putting the psycho in linguistics”

**Teaching Assistant: MATLAB for Behavioral Scientists** (01/2012 – 05/2012)  
*Psychology Department, Penn State University*  
Professor: David Rosenbaum

**Teaching Assistant: Psychology as a Science and Profession** (01/2012 – 05/2012)  
*Psychology Department, Penn State University*  
Professor: Andrew Peck

**Tutorial: The R statistical package** (9/2008)  
*Center for Language Science, Penn State University*

**Tutorial: Using SR-Research Experiment Builder software** (2/2008)  
*Center for Language Science, Penn State*

## **Academic Service**

**Graduate Student R-ticle Group – Co-founder** (Fall 2009 – Summer 2015)  
*Center for Language Science, Penn State University*

A student organization dedicated to scholarly and professional growth of graduate students interested in language science. The group holds weekly meetings designed to review new and classic research in the field; to discuss statistical methods and practices; and to learn new software and programming packages such as the R language.

**Young Scholar Speaker Series – Organizer** (Fall 2011)  
*Center for Language Science, Penn State University*

An event led by graduate students. Organizing the event involves inviting a speaker, soliciting funding from affiliated departments, organizing travel, planning a graduate poster series, and organizing the invited colloquia.



## **Ad hoc reviewer**

Annual CUNY Conference on Human Sentence Processing

International Workshop on Bilingualism and Cognitive Control

Journal of Experimental Psychology: Human Perception & Performance

Translation Spaces | A multidisciplinary, multimedia, and multilingual journal of translation

## **Press Releases and Media Coverage**

Want to be smart? Learn a foreign language – August 2015

<http://brainblogger.com/2015/08/05/want-to-be-smart-learn-a-foreign-language/>

Zut alors! Being bilingual DOESN'T make you smarter: Cognitive benefits of speaking two languages are a 'myth', claim scientists – August 2014

<http://www.dailymail.co.uk/sciencetech/article-2736928/Zut-alors-Being-bilingual-DOESNT-make-smarter-Cognitive-benefits-speaking-two-languages-are-myth-claim-scientists.html>

Why bilingualism strengthens your mental muscle – September 2013

<http://www.futurity.org/bilingualism-builds-mental-muscle/>

Time to Learn Another Language? Being Bilingual Makes You Smarter – September 2013

<http://thedailyneuron.com/are-you-bilingual-means-you-are-automatically-smarter/>

Bilingual Speakers Develop Mental Flexibility – September 2013

<http://psychcentral.com/news/2013/09/11/bilingual-speakers-develop-mental-flexibility/59404.html>

Benefits of Bilingualism – September 2013

<https://imsc.achievesms.com/headofeducation/2013/09/20/9-20-13-benefits-of-bilingualism/>

Think twice, speak once: Bilinguals process both languages – September 2013

[http://www.nsf.gov/news/news\\_summ.jsp?cntn\\_id=129060&org=NSF&from=news](http://www.nsf.gov/news/news_summ.jsp?cntn_id=129060&org=NSF&from=news)

<http://www.sciencedaily.com/releases/2013/09/130910121521.htm>

<http://news.psu.edu/story/286926/2013/09/10/research/think-twice-speak-once-bilinguals-process-both-languages>

Bilinguals have the remarkable ability to switch from one language to the other – June 2013

<http://www.frontiersin.org/Press.aspx?cat=publicrelations&stage=pressreleases#>

When language switching has no apparent cost: Lexical access in sentence context – May 2013

[http://www.sciencecodex.com/frontiers\\_news\\_briefs\\_may\\_30-113146](http://www.sciencecodex.com/frontiers_news_briefs_may_30-113146)

[http://www.eurekalert.org/pub\\_releases/2013-05/f-fnb052913.php](http://www.eurekalert.org/pub_releases/2013-05/f-fnb052913.php)



## **Professional Memberships**

Canadian Society for Brain, Behaviour and Cognitive Science

Psychonomic Society