

## Jason W. Gullifer

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*cognitive psychology – cognitive neuroscience – bilingualism – psycholinguistics  
behavioral methods – eyetracking – statistics – resting state fMRI*

### Employment

Postdoctoral Researcher (2018 – present)

*Department of Psychology; Center for Research on Brain, Language, and Music;  
McGill University*  
Supervisor: Debra Titone

NIH Ruth L. Kirschstein NRSA Postdoctoral Fellow (2015 – 2018)

*Psychology Department; Center for Research on Brain, Language, and Music;  
McGill University*  
Supervisors: Debra Titone & Denise Klein

Research Technologist (2007 – 2009)

*Psychology Department; Department of Spanish, Italian, and Portuguese;  
Center for Language Science; The Pennsylvania State University*  
Supervisors: Judith Kroll & Paola Dussias

### Education

Ph.D., Psychology and Language Science (2011 – 2015)

*Psychology Department; Center for Language Science; The Pennsylvania State University*  
Dissertation: *Using syntactic priming to identify cross-language constraints in bilingual language processing*  
Advisors: Judith Kroll & Paola Dussias

M.S., Psychology (2009 – 2011)

*Psychology Department; Center for Language Science;  
The Pennsylvania State University*  
Thesis: *The effect of syntactic constraints on parallel activation of words in the bilingual's languages*  
Advisors: Judith Kroll & Paola Dussias

B.A., Linguistics and Psychology (2003 – 2007)

*Department of Linguistics; University of Massachusetts, Amherst*  
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. (in preparation). What about the syntax? Bilingual word recognition in sentence context.

**Gullifer, J. W.** & Titone, D. (under review). Characterizing the social diversity of bilingualism using language entropy.

**Gullifer, J. W.** & Titone, D. (under revision). The impact of a momentary language switch on bilingual reading: Intense at the switch but merciful downstream for L2 but not L1 readers.

**Gullifer, J. W.**, Chai, X. J., Whitford, V., Pivneva, I., Baum, S., Klein, D., & Titone, D. (2018). Bilingual experience and resting-state brain connectivity: Impacts of L2 age of acquisition and social diversity of language use on control networks. *Neuropsychologia*, 117, 123-134. doi: 10.1016/j.neuropsychologia.2018.04.037

- Vingron, N., **Gullifer, J. W.**, Hamill, J., Leimgruber, J., & Titone, D. (2018). Using eye tracking to investigate what bilinguals notice about linguistic landscape images. *Linguistic Landscape*, 3, 226-245. doi: 10.1075/ll.17014.vin
- Titone, D., **Gullifer, J.**, Subramaniapillai, S., Rajah, N., & Baum, S. (2017). History-inspired reflections on the bilingual advantages hypothesis. In Bialystok, E. & Sullivan, M. D. (Eds.), *Growing Old with Two Languages: Effects of Bilingualism on Cognitive Aging* (pp. 265-295). Amsterdam: John Benjamins Publishing.
- Dussias, P., **Gullifer, J.**, & Poepsel, T. J. (2016). How psycholinguistics can inform contact linguistics: converging evidence against a decreolization view of Palenquero. In Schwegler, A., & McWhorter, J., Ströbel, L. (Eds.), *The Iberian Challenge: Creole Languages Beyond the Plantation Setting* (pp. 181-204). 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

## Organized Sessions and Symposia

- Gullifer, J. W.**, & Titone, D. (2017). Scaling up: Psycholinguistic investigations of real-world bilingualism. Session organized at the 11th International Symposium on Bilingualism (ISB11). Limerick, Ireland.

## Conference Presentations

- Gullifer, J. W.**, Chai, X., Whitford, V., Pivneva, I., Baum, S., Klein, D., & Titone, D. (2018). The relationship between resting state networks and bilingual reading: A preliminary investigation. Poster presented at the 10th annual meeting of the Society for the Neurobiology of Language (SNL2018). Quebec City, Quebec.
- Tiv, M., **Gullifer, J.**, Otto, R., & Titone, D. (2018). The Impact of Second Language Age of Acquisition and Language Usage Entropy on Reinforcement Learning among Bilingual Adults in a Non-Verbal Decision Making Task. Poster presented at the 10th annual meeting of the Society for the Neurobiology of Language (SNL2018). Quebec City, Quebec.
- Gullifer, J. W.**, & Titone, D. (2018). *Capitalizing on variability in bilingual language experience: Language entropy predicts L2 abilities and brain organization*. Poster presented at the 2018 meeting of the Canadian Society for Brain, Behaviour, and Cognitive Science (CSBBCS). St. John's, Newfoundland.
- Gullifer, J.**, Chai, X., Whitford, V., Pivneva, I., Baum, S., Klein, D., & Titone, D. (2017). *Bilingual experience shapes language control networks: the role of L2 AoA and social context of language usage*. Poster presented at the 9<sup>th</sup> annual meeting of the Society for the Neurobiology of Language (SNL2017). Baltimore, Maryland.
- Titone, D., Tiv, M., Vingron, N., Chubala, C.M., Heard, A., Robin, J., **Gullifer, J.**, & Pexman, P. (2017). Introducing Women in Cognitive Science Canada (WiCS-Canada): An Extension of “Women in Cognitive Science (WiCS)” from the U.S. to the Canadian Context. Poster presented at the 11th annual meeting of the Gender Summit North America. Montreal, Quebec.
- Vingron, N., **Gullifer, J.**, Whitford, V., Friesen, D., Debra, J., & Titone, D. (2017). *Using Eye Movements to Investigate Cross-Language Syntactic Activation During Natural Reading*. Poster presented at the 19th European Conference on Eye Movements (ECM2017). Wuppertal, North Rhine-Westphalia.
- Gullifer, J.**, Chai, X., Pivneva, I., Whitford, V., Baum, S., Klein, D., & Titone, D. (2017). *Interactional context of bilingualism shapes language control networks*. Paper presented at the 11th International Symposium on Bilingualism (ISB11). Limerick, Ireland.
- Vingron, N., Rouillard, V., **Gullifer, J.**, Leimgruber, J.R.E. & Titone, D. (2017). *What The Eyes Tell Us About How Bilinguals Visually Encode Linguistic Landscapes*. Paper presented at the 11th International Symposium on Bilingualism (ISB11). Limerick, Ireland.
- Vingron, N., **Gullifer, J.**, Whitford, V., Friesen, D., Debra, J., & Titone, D. (2017). *Cross-language syntactic activation during natural reading: Evidence from Adjective-Noun Constructions*. Paper presented at the 2017 Canadian Society for Brain, Behaviour, and Cognitive Science (CSBBCS).

Regina, Saskatchewan.

- Vingron, N., **Gullifer, J.**, Hamill, J., Leimgruber, J.R.E. & Titone, D. (2017). *Un regard sur le traitement des paysages linguistiques par les bilingues*. Poster presented at the 85e Congrès de l'Acfas. McGill University, Montréal, Canada.
- Aguila, K. A., **Gullifer, J.**, Vingron, N., Rouillard, V., Palenski, P., Li, K., Titone, D. (2017). *Bilingualism and Your Social Life: Is There A Relationship?* Poster presented at the Annual McGill Psychology Undergraduate Research Day.
- 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 2016 Canadian Society for Brain, Behaviour, and Cognitive Science (CSBBCS). Ottawa, Ontario.
- Vingron, N., Hamill, J., **Gullifer, J. W.**, Leimgruber, J., & Titone, D. (2016). *What the Eyes Tell Us About How Bilinguals Encode Real-World Linguistic Landscapes*. Poster presented at the 2016 Canadian Society for Brain, Behaviour, and Cognitive Science (CSBBCS). 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.

## Invited Lectures and Workshops

**Workshop: Capitalizing on our communicative & neurocognitive diversity:** (05/2018)  
**A selective overview of why and how we study individual differences in language processing**

*CCP Spring Training in Experimental Psycholinguistics*  
*Department of Linguistics, University of Alberta*

Co-lecturer with Debra Titone

**Workshop: Introduction to R** (03/2018)

*Graduate Association of Students in Psychology*  
*Department of Psychology, McGill University*

**Guest Lecture: Cognition** (03/2018)

*Department of Psychology, McGill University*

“Introduction to bilingualism”

Professor: Signy Sheldon

**Guest Lecture: Psychology of Bilingualism** (02/2018)

*Department of Psychology, McGill University*

“Bilingualism and the brain”

Professor: Debra Titone

**Workshop: Introduction to LMER models** (11/2017)

*Centre for Research on Brain, Language and Music*

**Workshop: Tools for Open Science** (10/2017)

*Graduate Association of Students in Psychology, McGill University*

**Guest Lecture: Cognition** (03/2017)

*Department of Psychology, McGill University*

“Introduction to bilingualism”

Professor: Signy Sheldon

**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** (03/2016)

*Department of Psychology, McGill University*

“Introduction to bilingualism”

Professor: Signy Sheldon



**Guest Lecture: Psychology Theory** (01/2016)  
*Department of Psychology, McGill University*  
 “Introduction to R for data processing”  
 Professor: Debra Titone

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

**Workshop: The R statistical package** (09/2008)  
*Center for Language Science, Penn State University*

**Workshop: Using SR-Research Experiment Builder software** (02/2008)  
*Center for Language Science, Penn State*

## Teaching Experience

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

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

**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

## Academic Service

**Graduate Student R-ticle Group – Co-founder** (2009 – 2010)  
*Center for Language Science, Penn State University*

Co-organized a student group dedicated to scholarly and professional growth of graduate students

interested in language science. The group held 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**

(01/2012)

*Center for Language Science, Penn State University*

Co-organized a student-led event focused on professional development. Invited a speaker, solicited funding from affiliated departments, organized travel, planned a poster session, and organized invited colloquia.

### **Ad hoc reviewer**

Annual CUNY Conference on Human Sentence Processing

International Journal of Bilingualism

International Workshop on Bilingualism and Cognitive Control

Journal of Experimental Psychology: General

Journal of Experimental Psychology: Human Perception & Performance

Linguistic Approaches to Bilingualism

Memory and Cognition

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

### **Press Releases and Media Coverage**

Want to be smart? Learn a foreign language 08/2015

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

Zut alors! Being bilingual DOESN'T make you smarter: 08/2014

Cognitive benefits of speaking two languages are a 'myth', claim scientists

<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 09/2013

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

Time to Learn Another Language? Being Bilingual Makes You Smarter 09/2013

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

Bilingual Speakers Develop Mental Flexibility 09/2013

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

Benefits of Bilingualism 09/2013

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

Think twice, speak once: Bilinguals process both languages 09/2013

[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 06/2013

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

When language switching has no apparent cost: Lexical access in sentence context 05/2013

[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

Society for the Neurobiology of Language

Women in Cognitive Science - Canada