

**Stéphanie Riès, PhD.**  
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*School of Speech, Language, and Hearing Sciences*  
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## **Academic Positions Held**

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- Aug 2016 - present* - Assistant Professor, School of Speech, Language, and Hearing Sciences, San Diego State University, California (USA).
- Jun 2015 - Jul 2016* - Neurosurgery department affiliate, University of California San Francisco (USA).
- Mar 2011 - present* - Affiliate to the Center for Aphasia and Related Disorders, Veterans Affairs Health Care System Northern California, Martinez, CA (USA).
- Jan 2011 - Aug 2016* - Postdoctoral Researcher, Knight lab, Helen Wills Neuroscience Institute, University of California, Berkeley (USA).
- Sep 2007 - Dec 2010* - Teaching Assistant, Aix- Marseille Université (France).

## **Education**

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- Ph.D in Cognitive Neuroscience, Aix-Marseille University (France). PhD awarded with highest honors. Title : Brain Dynamics of Cognitive Control in Speech Production: a focus on lexical selection and monitoring. Supervisors: Dr. F.-Xavier Alario (LPC, Cognitive Psychology Laboratory), and Dr. Boris Burle (LNC, Cognitive Neuroscience Laboratory).
- Master's (year 2) Cognitive Neuroscience, Aix-Marseille University (France). Internship and Master's thesis performed in the Cognitive Psychology Laboratory (LPC), supervisor: Dr. F.-Xavier Alario.
- Master's (year 1) Cellular Biology and Animal Physiology at the University of Rennes 1 (France). Internship in scientific communication at the Biological Station of Roscoff for the European Network of Excellence, Marine Genomics Europe. Supervisor: Dr. Michèle Barbier.
- BS Biology (in French: Licence de Biologie des Organismes, leaving certificate + 3) at the University of Rennes 1, France: certifying general knowledge in Ethology, animal Biology (evolution, classification) and micro and macro-Ecology.

## **Grants, Scholarships and Awards**

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- Ruth L. Kirschstein National Research Service Award (NRSA) from the National Institute on Deafness and Other Communication Disorders of the National Institutes of Health under Award Number F32DC013245. Project title: Brain dynamics of lexical selection in speech production. Grant period: 07/01/2013 until 08/18/2016.

- Grant from the France-Berkeley Fund to support a starting collaboration between the Knight Cognitive Neuroscience Laboratory and the Speech in Noise team of the Laboratory on Language, Brain and Cognition (L2C2) in Lyon, France.
- Post-doctoral grant from the Fyssen foundation: Spatio-temporal brain dynamics of lexical selection in speech production. Grant period: 01/23/2011 until 01/24/2013.
- Ph.D grant from the French Ministry of Research (MENRT). Doctoral dissertation research: Brain Dynamics of Cognitive Control in Speech Production: a focus on lexical selection and monitoring. Grant period: 09/01/2007 until 09/30/2010.
- Master's degree merit award: Scholarship provided by the Region P.A.C.A. (Provence Alpes Côtes d'Azur). Sep. 2006 to June 2007.
- Scholarship awarded by the Cognitive Science Society and European Cognitive Science society to attend to the 16th International Summer School in Cognitive Sciences, Sofia, Bulgaria. July 6-23/2009.

## **Publications**

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### Peer-reviewed journal articles:

**Riès, S.**, Parker, K., Dronkers, N., and Turken, A. (in revision). White matter pathways critical for language are also critical for resolving proactive interference in working memory.

**Riès, S.**, Dhillon, R., Clarke, A., King-Stephens, D., Laxer, K. D., Weber, P. B., Kuperman, R. A., Auguste, K. I., Brunner, P., Schalk, G., Parvizi, J., Crone, N., Dronkers, N. F., and Knight, R. T. (in revision). Spatio-temporal dynamics of the word retrieval network in speech production: Insights from electrocorticography.

Anders, R.\*, **Riès, S.\***, van Maanen L., Alario, F.-X. (in press). Lesions to the Left Lateral Prefrontal Cortex Impair Decision Threshold Adjustment for Lexical Selection. *Cognitive Neuropsychology*.

\*co first authorship

**Riès, S.**, Dronkers, N., and Knight, R.T. (2016). Choosing words: left hemisphere, right hemisphere, or both? Perspective on the lateralization of word retrieval. *Annals of the New York Academy of Sciences*. doi: 10.1111/nyas.12993.

Madec, S., Le Goff, K., **Riès, S.**, Legou, T., Rousselet, G., Courrieu, P., Alario, F.-X., Grainger, J., and Rey, A. (2016). The time-course of visuo-phonological interactions in letter perception. *Cognitive, Affective, and Behavioral Neuroscience*. PMID: 26742753

Piai, V., **Riès, S.**, & Swick, D. (2016). Lesions to lateral prefrontal cortex impair lexical interference control in word production. *Frontiers in Human Neuroscience*. doi: 10.3389/fnhum.2015.00721

**Riès, S.** (2015). Serial versus parallel neurobiological processes in language production: Comment on Munding, Dubarry, and Alario, 2015. *Language, Cognition, and Neuroscience*. doi:10.1080/23273798.2015.1117644

Anders, R., **Riès, S.**, van Maanen L., Alario, F.-X. (2015). Evidence accumulation as a model for lexical selection. *Cognitive Psychology*, 82:57-73. doi: 10.1016/j.cogpsych.2015.07.002.

**Riès, S.**, Karzmark, C., Navarrete, E., Dronkers, N., and Knight, R.T. (2015). Specifying the role of the left prefrontal cortex in word selection. *Brain and Language*, 149:135-47. doi: 10.1016/j.bandl.2015.07.007.

- Riès, S.**, Fraser, D., McMahon, K.L., and de Zubicaray, G.I. (2015). Early and late electrophysiological effects of distractor frequency in picture naming: Reconciling input and output accounts. *Journal of Cognitive Neuroscience*. PMID: 26042502
- Piai, V., **Riès, S.**, and Knight, R.T. (2015). The electrophysiology of language production: what could be improved. *Frontiers in Psychology*. doi: 10.3389/fpsyg.2014.01560
- Van der Linden, L., **Riès, S.**, Legou, T., Burle, B., Malfait, N. and Alario, A. (2014). A comparison of two procedures for verbal response time fractionation. *Frontiers in Psychology, section Language Sciences*, 5: 1213. doi: 10.3389/fpsyg.2014.01213
- Riès, S.**, Greenhouse I., Dronkers, N., Haaland, K., and Knight, R. T. (2014). Double dissociation of the roles of the left and right prefrontal cortices in anticipatory regulation of action. *Neuropsychologia*, 63C: 215-225. doi: 10.1016/j.neuropsychologia.2014.08.026.
- Llorens, A., Trebuchon, A., **Riès, S.**, Alario, F.-X., and Liegeois-Chauvel, C. (2014). How familiarization and repetition modulate the picture naming network. *Brain and Language*, 133: 47-58. doi: 10.1016/j.bandl.2014.03.010
- Riès, S.**, Xie, K., Haaland, K., Dronkers, N., and Knight, R. T. (2013). Role of the lateral prefrontal cortex in speech monitoring. *Frontiers in Human Neuroscience*. doi: 10.3389/fnhum.2013.00703
- Kaltwasser, K., **Riès, S.**, Sommer, W., Knight, R. T., Willems, R.M. (2013). Independence of valence and reward in emotional word processing: Electrophysiological evidence. *Frontiers in Psychology*, 4:168. doi: 10.3389/fpsyg.2013.00168.
- Riès, S.**, Janssen, N., Burle, B., and Alario, F.-X. (2013). Response-locked brain dynamics of word production. *Plos One*, 8(3): e58197. doi:10.1371/journal.pone.0058197
- Riès, S.**, Legou, T., Burle, B., Alario, A. and Malfait, N. (2012). Why does picture naming take longer than word reading? The contribution of articulatory processes. *Psychonomics Bulletin and Review*, DOI 10.3758/s13423-012-0287-x. See also corrigendum here: doi: 10.3758/s13423-014-0668-4
- Riès, S.**, Janssen, N., Dufau, S., Alario, F.-X., Burle, B. (2011). General purpose monitoring during speech production. *Journal of Cognitive Neuroscience*, 23, 6, 1419-1436.
- De Vos, M., **Riès, S.**, Vanderperren, K., Vanrumste, B., Alario, F.-X., Van Huffel, S., and Burle, B. (2010). Removal of muscle artifacts from EEG recordings of spoken language production. *Neuroinformatics*, 8, 135-150.

#### Book Chapters:

- Riès, S.**, Alario, F.-X., and Burle, B. (2009). Electro- et Magnéto-encéphalographie de la parole [Electro- and Magneto-encephalography of speech]. In Marchal, A. and Cavé, C. (Eds.), *Imagerie médicale pour l'étude de la parole [Medical Imaging for the Study of Speech]*. Paris: Hermès Sciences Editions.
- Ayora, P. and **Riès, S.** (2011). Comment fait-on pour aligner les mots et les faire rimer? [How do we align words and make them rhyme?]. In Alario A., *Toutes les questions que vous vous posez sur votre cerveau [All the questions you ask yourself on your brain]*. Paris: Odile Jacob Editions.

#### Conference presentations:

- Riès, S.\***, Anders, R.\* , van Maanen L., Alario, F.-X. (2016). Lesions to the Left Lateral Prefrontal Cortex Impair

Decision Threshold Adjustment for Lexical Selection. 9th international workshop on language production, San Diego, 07/25-27/2016. \* co-first authorship

- Ries, S.**, Dhillon, R., Clarke, A., King-Stephens, D., Laxer, K. D., Weber, P. B., Kuperman, R. A., Auguste, K. I., Brunner, P., Schalk, G., Lin, J., Parvizi, J., Crone, N., Dronkers, N. F., and Knight, R. T. (2015). Spatio-temporal dynamics of the lexical selection network in speech production: Insights from electrocorticography. Talk given at the annual meeting of the Academy of Aphasia, October 18-20, Tucson, Arizona.
- Ries, S.**, King-Stephens, D., Laxer, K. D., Weber, P. B., Kuperman, R. A., Auguste, K. I., Brunner, P., Schalk, G., Parvizi, J., Crone, N., Dronkers, N. F., and Knight, R. T. (2015). Distinct temporal and prefrontal contributions to word retrieval in picture naming? Poster presented at the annual meeting of the Society for the Neurobiology of Language, Chicago, Illinois, USA, 10/15-17/2015.
- Ries, S.**, Dhillon, R., Clarke, A., King-Stephens, D., Laxer, K. D., Weber, P. B., Kuperman, R. A., Auguste, K. I., Brunner, P., Schalk, G., Lin, J., Parvizi, J., Crone, N., Dronkers, N. F., and Knight, R. T. (2015). Spatio-temporal dynamics of the lexical selection network in speech production: Insights from electrocorticography. Talk given at the European Society for Cognitive Psychology, September 17-20, Paphos, Cyprus.
- Ries, S.**, Dhillon, R., Clarke, A., King-Stephens, D., Laxer, K. D., Weber, P. B., Kuperman, R. A., Auguste, K. I., Brunner, P., Schalk, G., Parvizi, J., Crone, N., Dronkers, N. F., and Knight, R. T. (2015). Spatio-temporal dynamics of the lexical selection network in speech production: Insights from electrocorticography. Poster and talk (in data blitz session) presented at the Cognitive Neuroscience Society, March 28-31 2015, San Francisco.
- Riès, S.**, Schendel, K., Dronkers, N. F., Turken, A. U. (2014). White matter pathways critical for language are also critical for resolving proactive interference in working memory. Poster presented at the annual meeting of the Academy of Aphasia, Miami, Florida, USA, 10/5-7/2014.
- Riès, S.**, Dhillon, R., King-Stephens, D., Laxer, K.D., Weber, P.B., Kuperman, R.A., Auguste, K.I., Parvizi, J., Dronkers, N.F., and Knight, R.T. (2014). Spatio-temporal dynamics of the lexical selection network in speech production: Insights from electrocorticography. Poster presented the annual meeting of the Society for the Neurobiology of Language in Amsterdam, the Netherlands, 08/27-29/2014.
- Riès, S.**, de Zubicaray, G.I., Fraser, D., and McMahon, K.L. (2014). An electrophysiological investigation of the distractor frequency effect in picture-word interference. Poster presented at the annual meeting of the Society for the Neurobiology of Language in Amsterdam, the Netherlands, 08/27-29/2014.
- Riès, S.**, Greenhouse I., Dronkers, N., Haaland, K. and Knight, R. T. (2014). Double dissociation of the roles of the left and right prefrontal cortices in anticipatory regulation of action. Poster presented at the International Cognitive Neuroscience Conference (ICON) in Brisbane, Australia, 07/27-31/2014.
- Riès, S.**, Xie, K., Haaland, K., Dronkers, N. and Knight, R. T. (2013). Distinct networks are involved in speech versus non-speech monitoring. Poster presented at the annual meeting of the Society for the Neuroscience, San Diego, California, 11/9-13/2013. Presentation 848.05/BBB8.
- Riès, S.**, Xie, K., Haaland, K., Dronkers, N. and Knight, R. T. (2013). Distinct networks involved in speech versus non-speech monitoring. Poster presented at the annual meeting of the Society for the Neurobiology of Language, San Diego, California, 11/6-8/2013.
- Riès, S.** & Fisher-Baum, S. Cross-domain approaches to the language puzzle. Symposium presented at the annual meeting of the Academy of Aphasia, Lucerne, Switzerland, 10/20-22/2013. Abstract in press in *Procedia-Social and Behavioral Sciences*.
- Riès, S.**, Dronkers, N.F., Knight, R.T. Left Fronto-Posterior interactions underlie lexical selection in speech

production: Neuropsychological and EEG evidence. Annual Meeting of the Academy of Aphasia, San Francisco, California, 10/28-30/2012. Abstract published in *Procedia - Social and Behavioral Sciences*, 61, 47-49. WoS:000321555700025

**Riès, S.**, Dronkers, N.F., Knight, R.T. Left Fronto-Posterior interactions underlie lexical selection in speech production: Neuropsychological and EEG evidence. Annual Meeting of the Society for Neuroscience, New Orleans, Louisiana, 10/13-17/2012. Presentation 595.12.

Llorens, A., Trebuchon, A., **Riès, S.**, Alario, F.-X., Liegeois-Chauvel, C. Spatiotemporal dynamics of picture naming: Elusive semantic effects but clear protocol modulations. 7th international workshop on language production, New York City, 07/18-20/2012.

Kaltwasser, L., **Riès, S.**, Sommer, W., Knight, R. & Willems, R. Independence of valence and reward in emotional word processing. 1st Conference of the European Society for Cognitive and Affective Neuroscience, Marseille, France, 05/09-12/2012.

**Riès, S.**, Janssen, N., Alario, F.-X. and Burle, B. About to speak...: Spatio-temporal brain dynamics of word production. 1st Conference of the European Society for Cognitive and Affective Neuroscience, Marseille, France, 05/09-12/2012.

Llorens, A., Trebuchon, A., **Riès, S.**, Alario, F.-X., Liegeois-Chauvel, C. Spatiotemporal dynamics of picture naming: Elusive semantic effects but clear task modulations during word production. 3rd annual neurobiology of language conference, Annapolis, 11/10-11/2011.

**Riès, S.**, Burle, B., and Alario, F.-X. Electrophysiology of speaking: Spatio-temporal dynamics of word selection. Cognitive Neuroscience Society Annual Meeting, San Francisco, 04/2-5/2011.

**Riès, S.**, Burle, B., and Alario, F.-X. Electrophysiology of speaking: Exploring the spatio-temporal dynamics of word selection. 2nd annual neurobiology of language conference, San Diego, 11/11-12/2010.

**Riès, S.**, Legou, T., Malfait, N., Burle, B., and Alario, F.-X. Why is Naming Longer than Reading? Contribution of Articulatory Processes. [Pourquoi dénommer des dessins prend plus de temps que de lire des mots? Contribution des processus articulatoires.] Invited Presentation at the 52nd Congress of the French Society for Psychology, Lille, France. 09/7-9/2010.

**Riès, S.**, Burle, B., and Alario, F.-X. Spatio-temporal dynamics of contextual semantic interference in picture naming. 6th International workshop in language production, Edinburgh, 09/2-4/2010.

**Riès, S.**, Janssen, N., Dufau, S., Alario, F.-X., and Burle, B. Characterization of electroencephalographic (EEG) components elicited by overt speech production in the picture naming task: A Laplacian ERP study. 49th Annual meeting of the Society for Psychological Research (SPR). Berlin, Germany. 10/21-24/2009.

**Riès, S.**, Janssen, N., Dufau, S., Alario, F.-X. and Burle, B. An electroencephalographic study of speech monitoring. Talk given at the European Society for Cognitive Psychology Conference (ESCoP) 2009. Krakow, Poland. 09/2-5/2009.

**Riès, S.**, Janssen, N., Dufau, S., Alario, F.-X. and Burle, B. Speech monitoring vs. monitoring of speech: Electroencephalographic evidence for an aspecific monitoring process. Association for Psychological Science (APS) annual convention. San Francisco, USA. May, 22-25, 2009.

**Riès, S.**, Janssen, N., Dufau, S., Alario, F.-X. and Burle, B. Characterization of electroencephalographic (EEG) components elicited by overt speech production in the picture naming task. 5th International Workshop on Language Production. Annapolis, Maryland, USA. July, 28-30, 2008.

## **Students (co-)supervision**

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- 2008-2010: Anais Llorens – Neuroscience MSc, then PhD Student
- 2011: Laura Kaltwasser – Psychology MSc Student
- 2011-2012: Kira Xie – Senior Cognitive Science Undergraduate Student (Honor's thesis)  
Chloe Lubinski – Junior Cognitive Science Undergraduate Student
- 2012-2014: Nikolay Nichiporuk – Cognitive Science Undergraduate Student
- 2013-2014: Rummit K. Dhillon – Senior Cognitive Science Undergraduate Student (Honor's thesis)  
Christopher Karzmark – Senior Psychology Undergraduate Student (Honor's thesis)  
Christina Vu – Junior Cognitive Science Undergraduate Student
- 2014-2015: Martha Mendoza – Junior Cognitive Science Undergraduate Student  
Brandon Brizendine – Junior Cognitive Science Undergraduate Student
- 2015-2016: Martha Mendoza – Senior Cognitive Science Undergraduate Student (McNair fellow)  
Kaylee Burns – Sophomore Cognitive Science Undergraduate Student

## **Review Work**

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- Journal of Neuroscience
- Cognition
- NeuroImage
- Cerebral Cortex
- Brain and Language
- Plos One
- Quarterly Journal of Experimental Psychology
- Frontiers in Psychology
- The Journal of the Acoustical Society of America
- Psychologie Française