

Kathrin Rothermich

Curriculum Vitae

Department of Speech, Language, and Hearing
Sciences
University of Connecticut
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EDUCATION

- 2012 **Ph.D. in Cognitive Science**
University of Potsdam (Germany)
- 2007 **Combined undergraduate and Masters' degree in German Linguistics, General Linguistics, Educational Science and Comparative Literature**
University of Leipzig (Germany)

EMPLOYMENT

- 2016 – present **Research Scholar**, Language and Brain Lab, Department of Speech, Language, and Hearing Sciences, University of Connecticut (Storrs, USA)
- 2012 – 2016 **Postdoctoral Researcher**, Neuropragmatics and Emotion Lab, School of Communication Sciences and Disorders, McGill University (Montreal, Canada)
- 2011 – 2012 **Ph.D. exchange student**, International Laboratory for Brain, Music and Sound Research, Université de Montréal (Montreal, Canada)
- 2007 - 2011 **Ph.D. student**, Minerva Research Group "Neurocognition of Rhythm in Communication", Max Planck Institute for Human Cognitive and Brain Sciences (Leipzig, Germany)

PUBLICATIONS

Refereed Journal Articles

- 2015 Pell, M.D., **ROTHERMICH, K.**, Liu, P., Paulmann, S., Sethi, S., & Rigoulot, S (2015). Preferential decoding of emotion from human non-linguistic vocalizations versus speech prosody. *Biological Psychology* 111, 14-25.
- 2015 **ROTHERMICH, K.**, & Pell, M.D (2015). Introducing RISC: A new video inventory for testing social perception. *PLOS ONE* 10 (7), 1-24.

- 2014 Pell, M.D., Monetta, L., **ROTHERMICH, K.**, Kotz S.A., Cheang, H.S., & McDonald, S. (2014). Social perception in adults with Parkinson's disease. *Neuropsychology*, 28(6), 905–916.
- 2013 Paquette, S., Mignault-Goulet, G., & **ROTHERMICH, K.** (2013). Prediction, Attention and Unconscious Processing in Hierarchical Auditory Perception. *Frontiers in Psychology*, 4, 955.
- 2013 **ROTHERMICH, K.**, & Kotz, S.A. (2013). Predictions in speech comprehension: fMRI evidence on the meter-semantic interface. *Neuroimage*, 70, 89–100.
- 2012 **ROTHERMICH, K.**, Schmidt-Kassow, M. & Kotz, S. A. (2012). Rhythm's gonna get you: Regular meter facilitates semantic sentence processing. *Neuropsychologia*, 50(2), 232–244.
- 2012 Schwartze, M., **ROTHERMICH, K.** & Kotz, S. A. (2012). Functional dissociation of pre-SMA and SMA-proper in temporal processing. *NeuroImage*, 60(1), 290–298.
- 2011 Schwartze, M., **ROTHERMICH, K.**, Schmidt-Kassow, M. & Kotz, S. A. (2011). Temporal regularity effects on pre-attentive and attentive processing of deviance. *Biological Psychology*, 87(1), 146–151.
- 2011 Schmidt-Kassow, M., **ROTHERMICH, K.**, Schwartze, M., & Kotz, S. A. (2011). Did you get the beat? Late proficient French-German learners extract strong-weak patterns in tonal but not in linguistic sequences. *Neuroimage*, 54(1), 568-76.
- 2010 **ROTHERMICH, K.**, Schmidt-Kassow, M., Schwartze, M., & Kotz, S. A. (2010). Event-related potential responses to metric violations: rules versus meaning. *Neuroreport*, 21(8), 580-584.
- 2010 Schmidt-Kassow, M., Kulka, A., Gunter, T. C., **ROTHERMICH, K.**, & Kotz, S. A. (2010). Exercising during learning improves vocabulary acquisition: behavioral and ERP evidence. *Neuroscience Letters*, 482(1), 40-44.
- 2009 **ROTHERMICH, K.**, Schmidt-Kassow, M., & Kotz, S. A. (2009). The role of attention in processing jabberwocky sentences: Revisiting the P600. *NeuroImage*, 47(Supplement 1), 142.

Edited Volumes

- 2015 Kotz, S. A., **ROTHERMICH, K.**, & Schmidt-Kassow, M. (2015). The role of default stress patterns in German monolingual and L2 sentence processing. In Vogel, R., & Vijver, R. (Eds.): *Rhythm in Cognition and Grammar: A Germanic Perspective*. 286, 83.

- 2013 Kotz, S. A., **ROTHERMICH, K.**, & Schmidt-Kassow, M. (2013). Neurokognition des Sprachverstehens bei Gesunden und Patienten mit fokalen zerebralen Läsionen. [Neurocognition of speech comprehension in healthy subjects and patients with focal cerebral lesions.]. Enzyklopädie der Psychologie/Themenbereich C: Theorie und Forschung/Kognition/Affektive und Kognitive Neurowissenschaft.
- 2012 Kotz, S. A., **ROTHERMICH, K.**, & Schmidt-Kassow, M. (2012). Sentence comprehension in healthy and brain-damaged populations. In Miriam Faust (Ed.): The Handbook of the Neuropsychology of Language. New York: Wiley-Blackwell.

Manuscripts under Review

ROTHERMICH K.*, Schwartz R.*¹, Kotz S.A., Pell M.D. Unaltered emotional experience in Parkinson's disease: Pupillometry and behavioral evidence. Journal of Clinical and Experimental Neuropsychology

GRANTS AND FELLOWSHIPS

- 2016-2017 Fonds de recherche du Québec – Santé, Bourse de Formation Postdoctorale (Postdoctoral stipend, \$ 30,000 annually)
- 2014-2016 Fonds de recherche du Québec – Santé, Bourse de Formation Postdoctorale (Postdoctoral stipend, \$ 30,000 annually)
- 2014 Natural Sciences and Engineering Research Council of Canada, Postdoctoral Fellowship (\$ 20,000 annually, declined)
- 2013-2014 Postdoctoral Fellowship McGill University (\$ 37,500 annually)
- 2011-2012 Erasmus Mundus Student Exchange Network in Auditory Cognitive Neuroscience, Scholarship (\$ 24,500, 10 month)

AWARDS AND HONORS

- 2016 Centre for Research on Brain, Language and Music, Travel Award, (\$ 700)
- 2015 Centre for Research on Brain, Language and Music, Travel Award (\$ 700)
- 2014 Erasmus Mundus Student Exchange Network in Auditory Cognitive Neuroscience, Travel Award (\$1200)
- 2012 Magna cum laude (Ph.D.), University of Potsdam

INVITED TALKS

¹ * Authors contributed equally.

- 2015 **ROTHERMICH, K.** (2015). Introducing RISC: A new open-source video database for testing social perception in healthy and neuropsychological populations. Cognitive Area Seminar, Psychology Department, McGill University, Montreal, Canada.
- 2015 **ROTHERMICH, K.** (2015). Introducing RISC: A new open-source video database for testing social perception in healthy and neuropsychological populations. Cognitive Neurology Unit, Beth Israel Deaconess Medical Center, Harvard Medical School, Boston, USA.
- 2014 **ROTHERMICH, K.** (2014). It's about time: On the involvement of motor areas in speech rhythm perception. CRBLM Workshop on sensorimotor integration in speech and music. BRAMS (Université de Montréal)
- 2012 **ROTHERMICH, K.** (2012). The influence of regular meter on semantic and syntactic integration. Hôpital Rivière-des-Prairies, Research laboratory in neurosciences and cognitive electrophysiology, Montréal, Canada.
- 2012 **ROTHERMICH, K.** (2012). The rhythm's gonna get you - the influence of regular meter on semantic and syntactic integration. UCSF Speech Neuroscience Lab, San Francisco, USA.
- 2012 **ROTHERMICH, K.** (2012). The rhythm's gonna get you - the influence of regular meter on semantic and syntactic integration. The Utah Center for Reading and Literacy, Salt Lake City, USA.
- 2011 **ROTHERMICH, K.** (2011). The rhythm's gonna get you - the influence of regular rhythm on semantic and syntactic integration. CRBLM WORKSHOP "Can Music Improve Speech?", BRAMS (Université de Montréal).

CONFERENCE PAPERS (REFEREED)

- 2016 **ROTHERMICH, K.** & Pell., M.D. (2016, August). Neural correlates of social appropriateness in dynamic conversation. Eighth Annual Meeting for the Neurobiology of Language, London, UK.
- 2015 **ROTHERMICH, K.** & Pell., M.D. (2015, April). Introducing RISC: A new inventory for testing social perception in neuropsychological populations. 2015 Meeting of the Social and Affective Neuroscience Society, Boston, USA.
- 2015 **ROTHERMICH, K.**, Shulman, Z. & Pell, M.D. (2015, March). Vocal disgust modulates socio-emotional judgments: behavioral and ERP evidence. 22nd Annual Cognitive Neuroscience Society Meeting, San Francisco, USA.
- 2014 **ROTHERMICH, K.**, Tranchant, P., Schwartz, M., Kotz S.A. & Peretz, I. (2014, April). Rhythm is a dancer: Electrophysiological evidence for sensory-driven synchronization deficits in beat deafness. Erasmus Mundus Auditory Cognitive Neuroscience Program – Symposium, Leipzig, Germany.
- 2013 **ROTHERMICH, K.**, & Kotz, S.A. (2013, April). Predictions in speech comprehension: fMRI evidence on the meter-semantic interface. 20th Annual Cognitive Neuroscience Society Meeting, San Francisco, USA.
- 2010 **ROTHERMICH, K.**, Schmidt-Kassow, M. & Kotz, S.A. (2010, November). Brain correlates of speech rhythm and semantic processing. 40th Annual Meeting of the Society for Neuroscience, San Diego, California, USA.
- 2010 Schwartz, M., **ROTHERMICH, K.** & Kotz, S. A. (2010, June). Clusters of fMRI activation in the SMA reflect motor and non-motor rhythm processing. 16th Annual Meeting of the Organization for Human Brain Mapping, Organization for Human Brain Mapping, Barcelona, Spain.

- 2010 **ROTHERMICH, K.** Maess, B., Dannhauer, M., Sikkema, S. H., Schmidt-Kassow, M., Knoesche, T. R., et al. (2010, June). MEG reveals shared resources for speech rhythm and syntax. 16th Annual Meeting of the Organization for Human Brain Mapping, Organization for Human Brain Mapping, Barcelona, Spain.
- 2010 Kotz, S.A., **ROTHERMICH, K.**, Schwartze, M., Schmidt-Kassow, M., Mankel, K., Eggert, K. (2010). Early non-motor symptoms in de novo Parkinson disease: predictors of non-linguistic and linguistic speech processing deficits? Seventeenth Annual Cognitive Neuroscience Society Meeting, Montreal, Canada.
- 2009 **ROTHERMICH, K.**, Schmidt-Kassow, M., & Kotz, S. A. (2009). Why the metric negativity is not an N400: An ERP study on metric and syntactic processing using jabberwocky sentences. *Journal of Cognitive Neuroscience, Supplement*, S122.
- 2009 **ROTHERMICH, K.** Schmidt-Kassow, M., & Kotz, S. A. (2009). The role of attention in processing jabberwocky sentences: Revisiting the P600. *NeuroImage, 47*(Supplement 1), S142.
- 2009 **ROTHERMICH, K.**, Schmidt-Kassow, M., & Kotz, S. A. (2008). Zur Interaktion von Syntax und Metrum: eine auditive ereigniskorrelierte fMRT-Studie [On the interaction of syntax and meter: An auditory efMRI study]. In P. Khader, K. Jost, H. Lachnit, & F. Rösler (Eds.), *Beiträge zur 50. Tagung experimentell arbeitender Psychologen* p. 273. Lengerich: Pabst Science Publishers.

TEACHING AREAS

Neuropragmatics, Communication Science, Speech Disorders, Cognitive Neuroscience, Psycholinguistics, Phonetics, Auditory Perception, Research Methods, Statistics

TEACHING EXPERIENCE

University of Connecticut (Speech, Language, and Hearing Science), Guest lecturer

Introduction to phonetic principles (Fall 2016)

McGill University (Physical and Occupational Therapy), Guest lecturer

Auditory Perception (Fall 2016)

McGill University (Psychology), Guest lecturer

Cross-linguistic influences on language and thought (Spring 2016)

Université de Montréal (Psychology), Guest lecturer

Méthodologie scientifique [Scientific Methods] (Fall 2015)

McGill University (School for Communication Sciences and Disorders), Guest lecturer

Neurolinguistics (Spring 2015, Spring 2016)

Johann Wolfgang Goethe Universität (Linguistics), Frankfurt am Main, Guest lecturer

Forschungskolloquium [Research Colloquium] (Spring 2011)

Johann Wolfgang Goethe Universität (Linguistics), Frankfurt am Main, Guest lecturer

Parsingtheorien [Parsing theories] (Fall 2009)

Leipzig University (Linguistics), Assistant to Instructor

Phonetics (Spring 2007, Fall 2007)

PROFESSIONAL DEVELOPMENT & TRAINING EXPERIENCES

- 2016 Workshop: Introduction to data analysis using R. McGill University.
2016 CRBLM/BRAMS Workshop on Mobile EEG. Université de Montréal. May 27th.
2015 Staff-Student Mentoring Program at McGill University.
2014 CRBLM Workshop on Dance, Music, Cognition and the Brain. Université de Montréal. December 5th.
2008 Neuroanatomy Workshop. University of Tübingen, Germany.
2008 Workshop “Musical Movement and Synchronization”. Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany.

SERVICE TO PROFESSION

Ad-hoc Reviewer *Neuropsychology, Brain and Language, Brain, Biological Psychology, Brain Research, Second Language Research, NeuroImage, Frontiers in Neuroscience, PLOS ONE, Neuropsychologia, Frontiers in Psychology, Journal of Nonverbal Behavior, Scientific Report*

Conference Organization Volunteer, Organization for Human Brain Mapping (2016)
Volunteer, Organization for Human Brain Mapping (2015)
Executive Member of the Student and Postdoc Section, Organization for Human Brain Mapping (since 2013)

DEPARTMENTAL/UNIVERSITY SERVICE

Student Advising

- 2015 – 2016 Renuka Giles, Honors Thesis (Cognitive Science, McGill University)
2015 Julia Hamill, Undergraduate Research Assistant (Cognitive Science & Linguistics, McGill University)
2015 Kelly Hennegan, Undergraduate Research Assistant (Pharmacology & Psychology, McGill University)
2015 Ella Zetler, Honors Thesis, (Cognitive Neuroscience, McGill University)
2014 Zachary Shulman, Honors Thesis, (Neuroscience, McGill University)
2013 – 2014 Patrick van Wagenen, Undergraduate Research Assistant (Agricultural & Environmental Sciences, McGill University)

COMMUNITY INVOLVEMENT/OUTREACH

- 2016 **The Academic Minute (WAMC Northeast Public Radio):** Short piece about the RISC database, available at:
<https://academicminute.org/2016/01/katherin-rothermich-mcgill-university-social-communication/>
2015 Article about RISC database, available at:
<http://www.aponet.de/aktuelles/kurioses/20151201-wahr-oder-unwahr.html>
2015 McGill University – Newsroom: “How can I tell if they're lying?” , available at:
<https://www.mcgill.ca/channels/news/how-can-i-tell-if-theyre-lying-256951>

LANGUAGES

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|---------|-----------------|--------------------------|-------------------------|
| German | reading: native | speaking: native | writing: native |
| English | reading: fluent | speaking: fluent | writing: fluent |
| French | reading: good | speaking: conversational | writing: conversational |

PROFESSIONAL MEMBERSHIPS

Cognitive Neuroscience Society
Women in Cognitive Sciences
Society for Social and Affective Neuroscience
Society for the Neurobiology of Language
Organization for Human Brain Mapping

REFERENCES

Marc D. Pell, PhD

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James McGill Professor, Faculty of Medicine, McGill University
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Sonja A Kotz, PhD

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Karsten Steinhauer, PhD

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Isabelle Peretz, PhD

Director, International Laboratory for Brain, Music and Sound Research (BRAMS)

Professor, Département de psychologie, Université de Montréal
Canada Research Chair, Neurocognition of Music
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