

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2.
Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME Julius Fridriksson	POSITION TITLE Associate Professor		
eRA COMMONS USER NAME jfridriksson			
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
University of Central Florida	B.A.	1995	Comm. Disorders
University of Central Florida	M.A.	1997	Speech Pathology
Brain Injury Rehabilitation Center, Orlando FL	--	1997	Cognitive rehab
University of Arizona	Ph.D.	2001	Speech Pathology

Please refer to the application instructions in order to complete sections A, B, and C of the Biographical Sketch.

A. Positions.

1995-1997 Graduate Research Assistant, Speech Science Laboratory
Dept. of Communication Disorders, University of Central Florida

1997-1998 Speech-Language Pathologist
Avante Rehabilitation Center, Leesburg, Florida

1999-2001 Speech-Language Pathologist
Kino Hospital, Tucson, Arizona

2001-2007 Assistant Professor
Dept. of Communication Sciences and Disorders, University of South Carolina

2007- Associate Professor
Dept. of Communication Sciences and Disorders, University of South Carolina

2001- Adjunct Professor
Dept. of Neuropsychiatry, University of South Carolina Medical School

2001- Researcher
Dorn Veterans Administration Medical Center, Columbia, South Carolina

Honors and Awards:

1993-1995 Golden Key National Honors Society

1993-1995 Presidents Honors List, University of Central Florida

1995 Cum Lauda (B.A.) University of Central Florida

1997-2001 Research Fellowship – National Center for Neurological Communication Disorders
(funded by the National Multipurpose Research & Training Center Grant DC-01409 from the National Institute on Deafness and Other Communication Disorders)

B. Selected peer-reviewed publications (in chronological order).

1. Ryalls, J., Baldauff, P., **Fridriksson, J.**, Thornburgh, D., & Zipprer, A. (1999). Different phonetics for different folks: studies of speaker differences at UCF. *Florida Journal of Speech-Language Pathology, 2*, 43-44.
2. **Fridriksson, J.** & Holland, A.L. (2001). Final thoughts on management of aphasia in the early phases of recovery following stroke. *American Journal of Speech-Language Pathology, 10*(1), 37-39.
3. Holland, A.L. & **Fridriksson, J.** (2001). Aphasia management during the early phases of recovery following stroke. *American Journal of Speech-Language Pathology, 10*(1), 19-28.
4. **Fridriksson, J.** & Ryalls, J. (2002). Formant frequency differences in vowels produced by African American and Caucasian Male speakers. *Florida Journal of Speech-Language Pathology, 20*, 19-22.
5. **Fridriksson, J.**, Holland, A.L., Coull, B., Plante, E., Trouard, T., & Beeson, P. (2002a). Association between cerebral perfusion/diffusion and aphasia severity in stroke. *Stroke 33*(1), 366-367.

6. **Fridriksson, J.**, Holland, A.L., Coull, B., Plante, E., Trouard, T., & Beeson, P. (2002b). Aphasia severity: association with cerebral perfusion and diffusion. *Aphasiology*, *16*(9), 859-871.
7. **Fridriksson, J.**, Holland, A., & Beeson, P., & Morrow, K.L. (2005). Spaced retrieval treatment of anomia. *Aphasiology*, *19*(2), 99-109.
8. **Fridriksson, J.** & Morrow, L. (2005). Cortical activation associated with language task difficulty in aphasia. *Aphasiology*, *19*(3/4/5), 239-250.
9. **Fridriksson, J.**, Ryalls, J., Rorden, C., Morgan, P.S., George, M., & Baylis, G.C. (2005). Brain damage and cortical compensation in foreign accent syndrome. *Neurocase*, *11*, 1-6.
10. **Fridriksson, J.**, Frank, E.M., & Vesselinov, R. (2005). Utilization of speech pathology and audiology services in stroke patients. *Journal of Medical Speech Language Pathology*, *13*(4), 223-232.
11. Morrow, K.L. & **Fridriksson, J.** (2006). Comparing fixed-and randomized-interval spaced retrieval in anomia treatment. *Journal of Communication Disorders*, *39*(1), 2-11.
12. **Fridriksson, J.**, Rorden, C., Morgan, P.S., Morrow, L., & Baylis, G.C. (2006). Measuring the hemodynamic response in the case of delayed perfusion. *Neurocase*, *12*(3):146-50.
13. Bonilha, L., Moser, D., Rorden, C., Baylis, G., & **Fridriksson, J.**, (2006). Speech apraxia without oral apraxia: can normal brain function explain the physiopathology? *Neuroreport*, *17*(10), 1027-31.
14. **Fridriksson, J.**, Nettles, C., Davis, M., Morrow, L., & Montgomery, A. (2006). Functional communication and executive function in aphasia: Preliminary data. *Journal of Clinical Linguistics and Phonetics*, *20*(6), 401-410.
15. **Fridriksson, J.**, Morrow, K.L., Moser, D., Fridriksson, A., & Baylis, G.C. (2006). Neural recruitment associated with anomia treatment in aphasia. *NeuroImage*, *32*, 1403-1412.
16. **Fridriksson, J.**, Morrow, K.L., Moser, D., & Baylis, G.C. (2006). Age related variability in cortical activity during language processing. *Journal of Speech-Language-Hearing Research*, *49*(4), 690-697.
17. Hall, D., Holmes, R.M., & **Fridriksson, J.** (2006). Frequency and periodicity coding in human auditory cortex. *European Journal of Neuroscience*, *24*, 3601-3610.
18. **Fridriksson, J.**, Moser, D., Bonilha, L., Morrow, K.L., Shaw, H., Fridriksson, A.M., Baylis, G.C., & Rorden, C. (2007). Neural Correlates of Phonological and Semantic Based Anomia Treatment in Aphasia. *Neuropsychologia*, *45*, 1812-22.
19. Almor, A., Smith, D.V., Bonilha, L., **Fridriksson, J.**, & Rorden, C. (2007). What's in a name? The brain basis of using pronouns and repeated names. *Neuroreport*, *18*, 1215-9.
20. Davis, M.S., **Fridriksson, J.**, Healy, E.W., & Baylis, G.C. (2007). Effects of MRI scanner noise on language task performance in persons with aphasia. *Journal of Medical Speech-Language Pathology*, *15*, 119-126.
21. Healy, E.W., Morrow, K.L., Moser, D., Hall, D., & **Fridriksson, J.** (2007). Speech perception in scanner noise by persons with aphasia. *Journal of Speech-Language-Hearing Research*, *50*, 323-34.
22. Healy, E.W., Moser, D.C., Morrow, K.L., & **Fridriksson, J.** (2007). Within-session learning of novel auditory tasks by persons with aphasia. *Journal of Medical Speech Language Pathology*, *15*, 327-335.
23. Hirth, V., Davis, J., **Fridriksson, J.**, Rorden, C., & Bonilha, L. (2007). Cognitive performance and neural correlates of detecting driving hazards in healthy older adults. *Dementia and Geriatric Cogn. Dis.*, *24*(5), 335-342.
24. Moser, D., **Fridriksson, J.**, & Healy, E.W. (2007). Sentence comprehension and general working memory. *Journal of Clinical Linguistics and Phonetics*, *21*(2), 147-156.

25. **Fridriksson, J., Bonilha, L., & Rorden, C. (2007).** Severe Broca's aphasia without Broca's area damage. *Behavioural Neurology, 18*(4), 237-238.
26. **Fridriksson, J., Moss, J., Davis, B., Baylis, G.C., Bonilha, L., & Rorden, C. (2008).** Motor speech perception modulates the cortical language areas. *Neuroimage, 41*, 605-613.
27. Bonilha, L. & **Fridriksson, J. (2008).** Subcortical damage and white matter disconnection associated with non-fluent speech. *Brain, Aug 22.* [Epub ahead of print]
28. Rorden, C., Davis, B., George, M.S., Borckardt, J., & **Fridriksson, J. (2008).** Broca's area is crucial for visual discrimination of speech but not non-speech oral movements. *Brain Stimulation, 1*(4), 383-385.
29. **Fridriksson, J., Baker, M.J., Whiteside, J., Eoute, D., Moser, D., Vesselinov, R., & Rorden, C. (2009).** Treating visual speech perception to improve speech production in non-fluent aphasia. *Stroke. 40*(3), 853-8.
30. Rorden, C., **Fridriksson, J., & Karnath, H.O. (2009).** An evaluation of traditional and novel tools for lesion behavior mapping. *Neuroimage, 44*(4), 1355-62.
31. Turner, T.H., **Fridriksson, J., Baker, J., Eoute, D., Bonilha, L., & Rorden, C. (2009).** Obligatory Broca's area modulation associated with passive speech perception. *NeuroReport, 20*(5), 492-6.
32. **Fridriksson, J., Moser, D., Ryalls, J., Bonilha, L., Rorden, C., & Baylis, G.C. (In press).** Modulation of frontal lobe speech areas associated with the production and perception of speech movements. *JSLHR.*
33. **Fridriksson, J., Baker, J., & Moser, D. (In press).** Cortical mapping of naming errors in aphasia. *Human Brain Mapping.*
34. Moser, D., **Fridriksson, J., Rorden, C., Bonilha, L., Healy, E.W., Baker, J., & Baylis, G.C. (in press).** Neural recruitment for the production of native and novel speech sounds. *NeuroImage.*
35. Smith, D.V., Davis, B., Niu, K., Healy, E.W., Bonilha, L., **Fridriksson, J., Morgan, P.S. & Rorden, C. (in press).** Spatial attention evokes similar activation patterns for visual and auditory stimuli. *Journal of Cognitive Neuroscience.*
36. Moser, D., Moore, M., Rorden, C., & **Fridriksson, J. (submitted).** Motor speech perception in aphasia.

C. Research Support.

Current NIH Funding:

Principal investigator, "National Institute of Deafness and other Communication Disorders." *Neurological Predictors of Anomia Recovery in Aphasia*, (R01 DC008355. Funding period 4/1/2007-3/31/2012. Annual budget: \$225,000/year). This project investigates the relationship between cortical integrity and outcome of anomia treatment in patients with aphasia.

Principal investigator, "National Institute of Deafness and other Communication Disorders." A Unified Neuroanatomical Model of Speech Perception and Production: Implications (R01 DC009571. Funding period 4/1/2009-3/31/2014. Requested funding: \$250,000/year). This project will examine the neural mechanism supporting speech perception and production. Special emphasis will be placed on translating basic research findings into treatment of apraxia of speech and conduction aphasia. Joint PI: Chris Rorden.

Co-investigator, "National Institute on Neurological Disorders and Stroke." *Dissociating Components of the Attentional Network in Neglect* (R01 NS054266 funding period: 8/1/2006-7/31/2011: \$205,000/year). The purpose of this grant is to investigate brain damage associated with neglect in stroke patients. PI: Chris Rorden

Co-investigator, "National Institute on Aging." Processing Discourse Reference in Mind and Brain, (R21 AG030445. Funding period: 5/1/2008-4/30/2010. Annual budget: \$150,000). This research aims to uncover the functional and

neural processes that underlie reference comprehension, especially with respect to the relation between reference form and referent salience. PI: Amit Almor

Foundation funding:

Co-PI, "Anonymous donor." Brain atrophy and normal aging. (Funding period: 2006-2009; total funding: \$100,000). The purpose of this research is to examine the relationship between white and gray matter atrophy in the normally aging brain and cognition. Co-PI: Leonardo Bonilha

Completed funding:

Principal investigator, "National Institute of Deafness and other Communication Disorders." *Neurological Predictors of Aphasia Recovery* (R03 DC005915 funding period: 8/1/03-7/31/07; total funding: \$225,000). The purpose of this study was to investigate the relationship among cerebral perfusion, lesion size, aphasia, and left hemi-spatial neglect in early stroke.