

## **Suzanne E. Welcome, Ph.D.**

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### **Education**

Ph.D., Neuroscience, University of California, Riverside 2008

- Supervisor: Christine Chiarello, Ph.D.
- Dissertation: "Individual Difference in Reading Ability and Brain Anatomy"

B.S., Psychobiology, University of Southern California 2001

### **Academic Honors**

Honorable Mention, NSF Graduate Research Fellowship Program 2004  
Dean's Distinguished Fellowship, UCR 2003-2008  
Trustee Scholarship, University of Southern California 1997-2001

### **Professional Experience**

Postdoctoral Fellow, University of Western Ontario 2008-present  
Supervisor: Marc Joanisse, Ph.D.

- fMRI and ERP investigations of relationships between individual differences in brain structure and brain function with reading ability

Teaching Assistant, University of California, Riverside 2003-2004

- Courses: Brain and Behavior, Human Neuropsychology

Research Assistant, Laboratory of Neuro Imaging, UCLA 2001- 2003  
Supervisor: Elizabeth Sowell, Ph.D.

- Manual delineation of anatomical landmarks and use of shell scripts to match anatomy across individuals

### **Publications**

1. **Welcome, S.E., & Joanisse, M.F.** Individual differences in skilled adult readers reveal dissociable patterns of neural activity associated with component processes of reading. *Brain and Language* (2012).
2. Chiarello, C., **Welcome, S.E., & Leonard, C.M.** (2012). Individual differences in brain organization for language. In M. Faust (Editor), *Handbook of the Neuropsychology of Language*. Blackwell-Wiley.
3. Chiarello, C., **Welcome, S.E., & Leonard, C.M.** (2011). Individual differences in reading skill and language lateralization: A cluster analysis. *Laterality: Asymmetries of Body, Brain, and Cognition*, [Epub ahead of print].
4. **Welcome, S.E., Paivio, A., McRae, K., Joanisse, M.F.** (2011). An electrophysiological study of task demands on concreteness effects: evidence for dual coding theory. *Experimental Brain Research*. 212(3), 347-58.

5. Chiarello, C., Halderman, L., **Welcome, S.E.**, Leonard, C. M. (2011). Does degree of asymmetry relate to performance? A reply to Boles and Barth. *Brain and Cognition*, 77(1), 135-137.
6. **Welcome, S.E.**, Chiarello, C., Thompson, P.M., Sowell, E.R. (2011). Reading skill is related to individual differences in brain structure in college students. *Human Brain Mapping*, 32(8), 1194-205.
7. **Welcome, S.E.**, Leonard, C.M., Chiarello, C. (2010). Alternate reading strategies and variable asymmetry of the planum temporale in adult resilient readers. *Brain and Language*, 113(2), 73-83.
8. **Welcome, S.E.**, Chiarello, C., Towler, S., Halderman, L.K., Otto, R., Leonard, C.M. (2009). Behavioral correlates of corpus callosum size: anatomical/behavioral relationships vary across sex/handedness groups. *Neuropsychologia*, 47(12), 2427-2435.
9. Chiarello, C., **Welcome, S.E.**, Halderman, L.K., Towler, S., Julagay, J., Otto, R., Leonard, C.M. (2009). A large-scale investigation of lateralization in cortical anatomy and word reading: are there sex differences? *Neuropsychology*, 23(2), 210-222.
10. Chiarello, C., **Welcome, S.E.**, Halderman, L.K., Leonard, C.M. (2009) Does degree of asymmetry relate to performance? An investigation of word recognition and reading in consistent and mixed handers. *Brain and Cognition*, 69(3), 521-530.
11. Leonard, C.M., Towler, S., **Welcome, S.**, Chiarello, C., (2009). Paracingulate asymmetry in anterior and midcingulate cortex: sex differences and the effect of measurement technique. *Brain Structure and Function*, 213(6), 553-569.
12. **Welcome, S.E.**, Chiarello, C. Halderman, L.K., Leonard, C.M. (2009). Lexical processing skill in college-aged resilient readers. *Reading and Writing: An Interdisciplinary Journal*, 22(3), 353-371.
13. **Welcome, S.E.**, Chiarello, C. (2008). How dynamic is interhemispheric interaction? Effects of task switching on the across-hemisphere advantage. *Brain and Cognition*, 67(1), 69-75.
14. Leonard, C.M., Towler, S., **Welcome, S.**, Halderman, L.K., Otto, R., Eckert, M.A., Chiarello, C., (2008). Size matters: cerebral volume influences sex differences in neuroanatomy. *Cerebral Cortex*, 18(12), 2920-2931.
15. Lu, L.H., Leonard, C.M., Thompson, P.M., Kan, E., Jolley, J., **Welcome, S.E.**, Toga, A.W., Sowell, E.R. (2007). Normal developmental changes in inferior frontal gray matter are associated with improvement in phonological processing: A longitudinal MRI Analysis. *Cerebral Cortex*, 17, 1092-99.
16. Sowell, E.R., Thompson, P.M., Leonard, C.M., **Welcome, S.E.**, Kan, E., Toga, A.W. (2004). Longitudinal mapping of cortical thickness and brain growth in normal children. *Journal of Neuroscience*, 24, 8223-31.
17. Ballmaier M., Sowell, E.R., Thompson, P.M., Kumar, A., Narr, K.L., Lavretsky, H., **Welcome, S.E.**, DeLuca, H., Toga, A.W. (2004). Mapping brain size and cortical gray matter changes in elderly depression. *Biological Psychiatry*, 55.
18. Sowell, E.R., Thompson, P.M., **Welcome, S.E.**, Henkenius, A.L., Toga, A.W., Peterson, B.S. (2003). Cortical abnormalities in children and adolescents with attention-deficit hyperactivity disorder. *Lancet*, 362, 1699-707.

19. Sowell, E.R., Peterson, B.S., Thompson, P.M., **Welcome, S.E.**, Henkenius, A.L., Toga, A.W. (2003). Mapping cortical change across the human life span. *Nature Neuroscience*, 6, 309-15.
20. Sowell, E.R., Thompson, P.M., Peterson, B.S., Mattson, S.N., **Welcome, S.E.**, Henkenius, A.L., Riley, E.P., Jernigan, T.L., Toga, A.W. (2002). Mapping cortical gray matter asymmetry patterns in adolescents with heavy prenatal alcohol exposure. *Neuroimage*, 17, 1807-19.

### **Manuscripts in Preparation**

**Welcome, S.E.**, Pasquarella, A., Chen, X., Olson, D., Joanisse, M.F. Preserved mid-fusiform activation in a patient with pure alexia.

**Welcome, S.E.**, Desroches, A.S., Newman, R.L., Joanisse, M.F., Neural regions associated with impaired processing of auditory word forms in children with dyslexia

### **Conference Presentations**

1. **Welcome, S.E.**, & Joanisse, M.F. (Accepted). DTI reveals associations between white matter structure and reading skill in typical adults. Cognitive Neuroscience Society, Chicago, IL.
2. Pasquarella, A., **Welcome, S.E.**, Chen, X., Joanisse, M.F., Olson, D., (2011). When a writer can't read: A case study of pure alexia. Canadian Psychological Association, Toronto, ON.
3. **Welcome, S.E.**, Pasquarella, A., Chen, X., Olson, D., Joanisse, M.F. (2011). Preserved mid-fusiform activation for familiar words in a patient with pure alexia: blindsight for written words? Cognitive Neuroscience Society, San Francisco, CA.
4. Joanisse, M.F., Paivio, A., McRae, K., **Welcome, S.E.** (2010). An ERP study of concreteness effects in imagery and associate generation: evidence for the dual coding theory. Cognitive Neuroscience Society, Montreal, Canada.
5. **Welcome, S.E.**, Swift-Gallant, A., Joanisse, M.F. (2010). Neural correlates of orthographic, phonological, and semantic processing in normal adult readers. Cognitive Neuroscience Society, Montreal, Canada.
6. Leonard, C.M., Towler, S.D., **Welcome, S.E.**, Chiarello, C. (2010) Individual differences in the anatomy of Broca's area. Cognitive Neuroscience Society, Montreal, Canada.
7. Leonard, C.M., Eckert, M.A., **Welcome, S.E.**, Chiarello, C. (2010) Cortical asymmetries in the precuneus and fusiform gyri are associated with visual field asymmetries in word processing: A voxel based analysis. Neurobiology of Language Conference, San Diego, CA.
8. Chiarello, C., **Welcome, S.**, Leonard, C. (2009). A cluster analysis of individual differences in reading skill and behavioral lateralization: Associations with structural asymmetries. Neurobiology of Language Conference, Chicago, IL.
9. **Welcome, S.E.**, Chiarello, C., Thompson, P., Sowell, E. (2009). A comparison of cortical anatomy between college students with different reading skills. Cognitive Neuroscience Society, San Francisco, CA.

10. Chiarello, C., **Welcome, S.**, Leonard, C.M. (2009) Atypical reading/laterality profile associated with reversed planum temporale asymmetry. Cognitive Neuroscience Society, San Francisco, CA.
11. Leonard, C.M., Towler, S., **Welcome, S.**, Chiarello, C. (2009) Sex, hand preference and brain asymmetry. Cognitive Neuroscience Society, San Francisco, CA.
12. Leonard, C.M., Towler, S., **Welcome, S.**, Chiarello, C., Kuldau, J.M. (2009). Paracingulate asymmetry in schizophrenia. International Congress on Schizophrenia Research, San Diego, CA
13. Leonard, C.M., Towler, S.D., **Welcome, S.**, Halderman, L., Otto, R., Chiarello, C. (2008) Lateral asymmetry in shape of Heschl's gyrus. Society for Neuroscience, Washington, DC.
14. **Welcome, S.E.**, Chiarello, C (2008). Evidence for semantic facilitation in resilient, but not poor, readers. Society for the Scientific Study of Reading, Asheville, NC.
15. Chiarello, C., **Welcome, S.E.**, Halderman, L.K., Towler, S., Otto, R., Leonard, C.M. (2008) Individual differences in language organization: a clustering solution. Psychonomic Society, Chicago, IL
16. **Welcome, S.E.**, Chiarello, C., Halderman, L., Leonard, C.M. (2008) Relationships between performance and hemispheric asymmetry on lexical tasks. Cognitive Neuroscience Society, San Francisco, CA.
17. Chiarello, C., **Welcome, S.**, Towler, S., Otto, R., Leonard, C.M. (2008) Associations of brain size and verbal performance depend on handedness. Cognitive Neuroscience Society, San Francisco, CA.
18. Chiarello, C., **Welcome, S.E.**, Halderman, L.K., Towler, S., Otto, R., Leonard, C.M. (2007). Behavioral and anatomical correlates of corpus callosum size. Psychonomic Society, Long Beach, CA.
19. Leonard, C.M., Towler, S., Joseph, D., **Welcome, S.**, Halderman, L., Otto, R., Chiarello, C. (2007) Discriminating left from right with a Likert rating scale: Sylvian fissure asymmetry in healthy adults. Organization for Human Brain Mapping, Chicago, IL.
20. **Welcome, S.E.**, Leonard, C.M., Halderman, L.K., Towler, S., Chiarello, C. (2007). Word reading skill and brain anatomy in adult resilient readers. Society for the Scientific Study of Reading, Prague, Czech Republic (Selected for Oral Presentation).
21. **Welcome, S.E.**, Halderman, L.K., Julagay, J., Leonard, C.M., Chiarello, C. (2007). A factor analytical approach to hemisphere differences in lexical processing. Cognitive Neuroscience Society, New York, NY.
22. Leonard, C.M., Towler, S., Halderman, L.K., **Welcome, S.E.**, Otto, R. (2007). Sex differences in brain structure & asymmetry in healthy college students. Cognitive Neuroscience Society, New York, NY.
23. Chiarello, C., Halderman, L.K., **Welcome, S.E.**, Julagay, J., Leonard, C.M. (2007). Sex differences in visual field lateralization: where are they?. Cognitive Neuroscience Society, New York, NY.
24. Chiarello, C., **Welcome, S.E.**, Halderman, L.K., Julagay, J., Otto, R., Leonard, C.M. (2006). Individual differences in lexical processing and cerebral asymmetries. Psychonomic Society, Houston, TX.

25. Leonard, C.M., Towler, S.D., **Welcome, S.E.**, Halderman, L.K., Chiarello, C. (2006). Sylvian fissure asymmetry in normal young adults. Society for Neuroscience, Atlanta, GA.
26. **Welcome, S.E.**, Chiarello, C., Halderman, L.K., Julagay, J., Leonard, C.M. (2006). Individual differences in hemisphere asymmetry for nonword reading and their relationship to reading ability. Cognitive Neuroscience Society, San Francisco, CA.
27. Halderman, L.K., Chiarello, C., **Welcome, S.E.**, Julagay, J., Leonard, C.M. (2006). Individual differences in rapid word recognition and its relation to reading ability. Cognitive Neuroscience Society, San Francisco, CA.
28. **Welcome, S.E.**, Chiarello, C. (2005). Effects of bilingualism and task switching on hemispheric interaction. Psychonomic Society, Toronto, ON, Canada.
29. **Welcome, S.E.**, Chiarello, C. (2005). Effects of bilingualism on hemispheric interaction. Cognitive Neuroscience Society, New York, NY.
30. Sowell E.R., Leonard, C.M., Thompson, P.M., Lombardino, L.J., **Welcome, S.E.**, Toga, A.W. (2003). Longitudinal Mapping of Brain Maturation During Childhood. Society for Neuroscience, New Orleans, LA.
31. Sowell, E.R., Thompson, P.M., **Welcome, S.E.**, Henkenius, A.L., Toga, A.W., Peterson, B.S. (2003). Cortical Abnormalities in Children and Adolescents with Attention Deficit Hyperactivity Disorder. Organization for Human Brain Mapping, New York, NY.
32. Ballmaier, M., Kumar, A., Sowell, E.R., Thompson, P.M., Blanton, R.E., Lavretsky, H., **Welcome, S.E.**, Peterson, J., Pham, D., DeLuca, H., Toga, A.W. (2003). Cortical Abnormalities in Elderly Depressed Patients. Organization for Human Brain Mapping, New York, NY.
33. Sowell, E.R., Thompson, P.M., Peterson, B.S., Henkenius, A.L., **Welcome, S.E.**, Toga, A.W. (2002). Mapping non-linear age effects on cortical gray matter between 7 and 87 years. Society for Neuroscience, Orlando, FL.
34. Sowell, E.R., Thompson, P.M., Peterson, B.S., Mattson, S.N., **Welcome, S.E.**, Henkenius, A.L., Lobo, E.C., Riley, E.P., Jernigan, T.L., Toga, A.W. (2002). Mapping cortical gray matter asymmetry patterns during normal adolescence and the effects of heavy prenatal alcohol exposure. Organization for Human Brain Mapping, Sendai, Japan.
35. McClure, W.O., Chang, M. **Welcome, S.** (2001). Puberty is required for the action of prenatal stress on adult neurodevelopment: a potential explanation for the late onset of illness in schizophrenia. Society for Neuroscience, San Diego, CA.
36. **Welcome, S.**, Garner, A., McClure, W.O. (2001). Prenatal stress of rats alters laterality – relation to schizophrenic lateralization. Winter Conference on Brain Research, Snowmass, CO.