

# LAUREN K. HAYRYNEN

The Clinical and Cognitive Neuroscience Laboratory  
Behavioral and Health Sciences Institute  
University of Georgia Athens, GA 30602-3013  
Phone: (906) 458-8221      Email: lkhayryn@uga.edu

## Education

- 2011-Present Ph.D.** Graduate Student, University of Georgia  
Neuroscience Program, Biomedical and Health Sciences Institute  
Advisor: Dr. Brett A. Clementz
- 2010 B.S.** Michigan Technological University  
Major: Psychology  
Minor: Biological Sciences

## Publications

**Hayrynen, L.K.**, Hamm, J.P., Sponheim, S.R., Clementz, B.A. (in preparation). Frequency-specific disruptions of neuronal oscillations reveal aberrant auditory processing in schizophrenia.

Hamm, J.P, Bobilev, A.M, Hudgens-Haney M.E., Oliver, W.T., Parker, D.A., **Hayrynen, L.K.**, McDowell, J.E., Buckley, P. F., Clementz, B.A. (under review). Stimulus train duration moderates gamma-band auditory neural entrainment abnormalities in schizophrenia.

Helton, W.S., **Hayrynen, L.K.**, & Schaeffer, D.J. (2009). Sustained attention to local and global target features is different: Performance and tympanic membrane temperature. *Brain & Cognition*, 71, 9-13.

## Presentations

**Hayrynen, L.K.**, Hamm, J.P., Ethridge, L.E., Tamminga, C.A., Sweeney, J.A., Keshavan, M.S., Pearlson, G.D., Clementz, B.A. (2014) Aberrant long-range neural synchronization in schizophrenia. Poster presented at the Society for Psychophysiological Research Annual Meeting, Atlanta, GA.

Parker, D.A., Hudgens-Haney, M.E., Oliver, W.T., **Hayrynen, L.K.**, Knight, J.B., Bobilev, A.M., Hamm, J., Arkin, S., Buckley, P., McDowell, J. & Clementz, B. Alpha band dynamics in schizophrenia during an ocular motor inhibition task (2014) Poster presented at Society for Psychophysiological Research Annual Meeting, Atlanta, GA.

Arkin, S.C., Bobilev, A.M., Rodrigue, A.L., Oliver, W.T., Hudgens-Haney, M.E., **Hayrynen, L.K.**, Schaeffer, D.J., Pierce J.E., Parker, D.A., McDowel J.E., Clementz, B.A. (2014) Multimodal imaging of resting state neural activity among schizophrenia and high and low working memory capacity subjects. Poster presented at the SEC MRI and fMRI conference, Athens, GA.

**Hayrynen, L.K.**, Hamm, J.P., Sponheim, S.R., Clementz, B.A. (2013) Excess gamma-band activity in schizophrenia interferes with auditory cortical processing. Poster presented at the Society for Neuroscience Annual Meeting, San Diego, CA.

Oliver, W.T., Hamm, J.P., Bobilev, A.M., **Hayrynen, L.K.**, Hudgens-Haney, M.E., Buckley P.F., Sweeney, J.A., McDowell, J.E, Clementz, B.A. (2013) Aberrant neuronal oscillatory patterns in schizophrenia and high/low working memory span. Poster presented at the Society for Psychophysiological Research Annual Meeting, Florence, Italy.

**Hayrynen, L.K.**, Hamm, J.P., Sponheim, S.R., Clementz, B.A. (2012) Frequency-specific neuronal oscillations reveal aberrant cortical network properties in schizophrenia. Poster presented at the Society for Psychophysiological Research Annual Meeting, New Orleans, LA.

**Hayrynen, L.K.**, Hudgens-Haney, M.E., Laing, E. J. C., Eddy, W.F. (2011) Explorations of Magnetoencephalographic Techniques. Poster presented at the 2011 Multimodal Neuroimaging Training Program Symposium: The Resting State, Default Networks, and Neural Connectivity, Pittsburgh, PA.

Kern, R.P. & **Hayrynen, L.K.** (2009) The effect of presentation mode and emotion on memory. Poster presented at the Association of Psychological Science 21st Annual Convention, San Francisco, CA.

### **Awards and Honors**

2011-2012 Ph.D. Scholars of Excellence Fellowship (\$19,000)  
2011 Multimodal Neuroimaging Training Program (\$2,500)  
2009 Lawrence and Elsie Klein Creative Writing Award (\$1,000)  
2006-2010 Michigan Technological University Presidential Excellence (\$16,000)

### **Research Experience**

2011-Present Graduate Student, Clinical and Cognitive Neuroscience Laboratory (Brett A. Clementz, Ph. D. and Jennifer McDowell, Ph.D.) – Departments of Psychology and Neuroscience, University of Georgia  
2010-2011 Research Assistant, Clinical and Cognitive Neuroscience Laboratory (Brett A. Clementz, Ph.D. and Jennifer McDowell, Ph.D.) – Departments of Psychology and Neuroscience, University of Georgia  
2009-2010 Research Assistant, Memory Laboratory (Rosalie Kern, Ph.D.) – Department of Psychology, Michigan Technological University  
2007-2008 Research Assistant, Human-Robot Interaction Laboratory (William Helton, Ph.D.) – Department of Psychology, Michigan Technological University

### **Teaching Experience**

2012-Present Graduate Teaching Assistant, UGA: Psychology 1101, Psychology 4100  
2010-2011 Tutor: Athens Tutors  
2007-2010 English Language Coach: International Graduate Teaching Assistants Assistance Program (IGTAAP)  
2007-2008 English and Writing Coach: Michigan Tech Writing Center

### **Professional Activities and Affiliations**

2013-Present Georgia Science and Engineering Fair Junior Division Judge  
2012-Present Society for Psychophysiological Research  
2010-Present Psi Chi  
2009-Present Association of Psychological Science Student Affiliate  
2009-2010 MTU Association of Psychology Students, Public Relations Chair  
2006-2007 MTU Association of Psychology Students, Secretary