

# LISA JOHNSON

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## EDUCATION

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- PhD** University of South Carolina  
Communication Sciences and Disorders Aug 2017 - Present  
Advisor: Dr. Julius Fridriksson
- BS** Arizona State University  
Speech and Hearing Science Aug 2013 - Dec 2016  
Graduated Cum Laude  
Advisor: Dr. Corianne Rogalsky

## RESEARCH EXPERIENCE

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- Aphasia Laboratory** 2017 to Present  
University of South Carolina, Columbia, SC  
**Graduate research assistant**, Advisor: Dr. Julius Fridriksson
- Investigates neural and behavioral correlates of aphasia recovery using numerous neuroimaging techniques
  - Interested in exploring health factors that influence recovery patterns post-stroke
- Communication Neuroimaging and Neuroscience Laboratory** 2014 to 2017  
Arizona State University, Tempe, AZ  
**Paid research assistant**, Advisor: Dr. Corianne Rogalsky
- Studied speech perception and cognitive processes in healthy adults, stroke/aphasia patients, and second language learners of American Sign Language
  - Tasks: fMRI preprocessing and analysis, structural and functional neuroimaging experimental design, administered neuropsychological assessments
- Brain and Body Donation Center** Summer 2016  
Banner Sun Health Research Institute, Sun City, AZ  
**Paid intern**, Advisor: Dr. Thomas Beach
- Studied collected tissue from patients with Alzheimer's Disease, Parkinson's Disease, and/or cancer post-mortem to determine cause of death, and identify biomarkers
  - Tasks: brain and spinal cord extraction; blood collection, processing, and storing; paraffin embedding, cutting, mounting, and staining; cryotome cutting, mounting, and staining; plaque/tangle differentiation under microscope

## TEACHING AND MENTORING EXPERIENCE

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**University of South Carolina**, Columbia, SC Summer 2019

**Anatomy and Physiology of the Speech and Hearing Mechanism**, Communication Sciences and Disorders

This master's level course provides detailed curriculum on speech and hearing mechanism. This course featured innovative virtual reality techniques, a dissection lab, and student-led discussions on pathologies associated with damage to anatomy. (3 units)

**University of South Carolina**, Columbia, SC Aug 2018 to May 2019

**Graduate Research Student Mentor**, Communication Sciences and Disorders

Mentored 5 second-year master's students on two research projects. Students presented posters investigating neuroanatomical and behavioral correlates of gesture use by participants with aphasia on a naming task pre- and post-treatment at Discover UofSC. (0 units)

**Arizona State University**, Tempe, AZ

Jan 2017 to May 2017

**Academic Associate**, Speech and Hearing Science

Taught 4 undergraduate American Sign Language 101 courses, 30 students per class. (4 units each)

## PUBLICATIONS

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**Johnson, L.**, Yourganov, G., Keator, L., Newman-Norlund, R., Rorden, C., & Fridriksson, J. (in prep). Speech Entrainment Improves Synchrony Between Anterior and Posterior Cortical Speech Areas in Non-Fluent Aphasia.

Basilakos, A., Stark, BC., **Johnson, L.**, Rorden, C., Yourganov, G., Bonilha, L., & Fridriksson, J. (2019). Leukoaraiosis Is Associated With a Decline in Language Abilities in Chronic Aphasia. *Neurorehabilitation and Neural Repair*, 33(9), 718-729. <https://doi.org/10.1177/1545968319862561>

Wilmskoetter, J., Marebwa, B., Basilakos, A., Rorden, C., Hickok, G., Hillis, A., **Johnson, L.**, Stark, BC., Fridriksson, J., & Bonilha, L. (accepted). Long-range fiber damage in small vessel brain disease affects aphasia severity. *Brain*.

**Johnson, L.**, Basilakos, A., Yourganov, G., Cai, B., Bonilha, L., Rorden, C., & Fridriksson, J. (2019). Progression of Aphasia Severity in the Chronic Stages of Stroke. *American Journal of Speech-Language Pathology*. [https://doi.org/10.1044/2018\\_AJSLP-18-0123](https://doi.org/10.1044/2018_AJSLP-18-0123)

Fitzhugh, M.C., Whitehead, P.S., **Johnson, L.**, Cai, J.M., Baxter, L.C., & Rogalsky, C. (2019) A functional MRI investigation of crossmodal interference in an audiovisual Stroop task. *PLOS ONE* 14(1): e0210736. <https://doi.org/10.1371/journal.pone.0210736>

**Johnson, L.,** Fitzhugh, M.C., Yi, Y., Mickelsen, S., Baxter, L.C., Howard, P., & Rogalsky, C. (2018). Functional Neuroanatomy of Second Language Sentence Comprehension: An fMRI Study of Late Learners of American Sign Language. *Frontiers in psychology*, 9, 1626. doi:10.3389/fpsyg.2018.01626

#### **PRESENTATIONS AND POSTERS**

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*“Neural Synchronization During Language Processing in Listeners with Aphasia”*

**Johnson, L.,** Wilson, SM., Yourganov, G., Basilakos, A., Stark, BC., Eriksson, R., Newman-Norlund, R., Rorden, C., & Fridriksson, J.

Poster presented at Society for the Neurobiology of Language; 2019 August 20-23; Helsinki, Finland

*“Speech Entrainment Improves Synchrony between Anterior and Posterior Cortical Speech Areas in Non-fluent Aphasia”*

**Johnson, L.,** Yourganov, G., Keator, L., Newman-Norlund, R., Thors, H., Basilakos, A., Rorden, C., & Fridriksson, J.

Poster presented at Clinical Aphasiology Conference; 2019 May 28-June 1; Whitefish, MO

*“Speech Entrainment Improves Synchrony between Anterior and Posterior Cortical Speech Areas in Non-fluent Aphasia”*

**Johnson, L.,** Yourganov, G., Keator, L., Newman-Norlund, R., Thors, H., Basilakos, A., Rorden, C., & Fridriksson, J.

Poster presented at Discover UofSC; 2019 April 27; Columbia, SC

*“Leukoaraiosis Predicts Naming Outcomes after Treatment in Aphasia”*

**Johnson, L.,** Basilakos, A., Stark, B., Kristinsson, S., Bonilha, L., Rorden, C., Fridriksson, J.

Poster presented at Society for the Neurobiology of Language; 2018 August 16-18; Quebec City, Canada

*“Predicting Language Changes in Chronic Aphasia”*

**Johnson, L.,** Basilakos, A., Yourganov, G., Cai, B., Bonilha, L., Rorden, C., Fridriksson, J.

Poster presented at: Clinical Aphasiology Conference; 2018 May 23-26; Austin, TX

*“Changes in Left Hemisphere Grey and White Matter Predict the Evolution of Language Abilities in Chronic Stroke Aphasia”*

Basilakos, A., **Johnson, L.,** Yourganov, G., Bonilha, L., Rorden, C., Fridriksson, J.

Poster presented at Medical University of South Carolina Research Day; 2017 November; Charleston, SC

*“Functional plasticity of sentence-processing brain networks: an fMRI study of late American Sign Language acquisition”*

**Johnson, L.,** Yi, Y., Mickelsen, S., Maze, S., Baxter, L.C., Howard, P., Rogalsky, C.

Poster at the 46<sup>th</sup> annual meeting of the Society for Neuroscience; 2016 November; San Diego, CA

*“Autonomic Cardiac Neurodegeneration in Parkinsonian Syndromes”*

**Johnson, L.,** Moffett, C., Glass, M., Serrano, G., Sue, L., Beach, T.G.

Poster at Banner Research Symposium; 2016 August; Phoenix, AZ

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#### CLINICAL EXPERIENCE

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**Aphasia Therapy Group Organizer** Aug 2017 to Present

USC Speech and Hearing Clinic, Columbia, SC

Description: Assists in providing group therapy to individuals with global and non-fluent aphasia

**Speech-Language Pathology Assistant** Dec 2016 to July 2017

H.O.U.S.E. LLC, Tempe, AZ

Description: Provided home-health speech therapy for children of various diagnoses

**Student Observer** Aug 2014 to Jan 2015

Phoenix Day School for the Deaf, Phoenix, AZ

Description: Observed ASHA certified SLPs who work exclusively with children with profound deafness teaching articulatory strategies.

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#### HONORS AND AWARDS

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**USC Graduate School Travel Grant** 2019

**SC SmartState Center for Healthcare Quality Junior Scholar** 2019

**Arnold School of Public Health Dean’s Student Travel Award** 2019

**Webber Doctoral Student Fellowship** 2018

**Women Inspiring Scientific Progress Award** 2016

**Advanced Research Experience Seminar Scholar** 2015

**National Student Speech-Language-Hearing Association Scholarship** 2015

**College of Health Solutions Scholarship** 2015

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#### LANGUAGES

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**English:** Native Language

**American Sign Language:** Proficient