

CURRICULUM VITAE

Jessica D. Richardson, Ph.D., CCC-SLP

The University of New Mexico

Department of Speech and Hearing Sciences

Academic Positions

Instructor*/Clinical Supervisor**

Communication Sciences and Disorders, The University of Georgia, 2004-2009*/2007-2008**

Post-Doctoral Fellow

Communication Sciences and Disorders, The University of South Carolina, Aphasia Laboratory, 2009-2011

Research Assistant Professor

Communication Sciences and Disorders, The University of South Carolina, 2011-2012

Assistant Professor

Communication Sciences and Disorders, The University of South Carolina, 2012-2015

Speech and Hearing Sciences, The University of New Mexico, 2015-present

Academic Affiliations

Faculty Member, McCausland Center for Brain Imaging, The University of South Carolina, 2012-2015

Faculty Affiliate, Institute for Mind and Brain, The University of South Carolina, 2013-2015

Co-Chair of Research Advisory Council, Triangle Aphasia Project, North Carolina, 2013-present

Faculty Affiliate, Brain and Behavioral Health Institute, The University of New Mexico, 2015-present

Other Professional Employment

Speech-Language Pathologist Aide

GA SLP Aide #000093, Athens Speech and Language Services (now *Children's Therapy Services*)

Athens, GA: June 1999-June 2001

Speech-Language Pathologist Trainee

Veterans Affairs Hospital

Tucson, AZ: September 2002-May 2003

Speech-Language Pathologist

Clarke County School District

Athens, GA: August 2003-June 2005

Speech-Language Pathologist – contract/self-employed

2004-present

Education

B.S.; Communication Sciences and Disorders, The University of Georgia, May 2001

M.S.; Speech and Hearing Sciences, The University of Arizona, May 2003

Ph.D.; Communication Sciences and Disorders, The University of Georgia, August 2009

Postdoc; Communication Sciences and Disorders, The University of South Carolina, 2009-2011

Scholarly Activities

Peer-Reviewed Journal Articles (name **bolded**; mentored students underlined)

Richardson, J.D., Harris, L., Plante, E., & Gerken, L. (2006). Subcategory learning in normal and language learning-disabled adults: How much information do they need? *Journal of Speech, Language, and Hearing Research*, 49(6), 1257-1266.

Davidow, J.H., Bothe, A.K., **Richardson, J.D.**, & Andreatta, R.D. (2010). Systematic studies of modified vocalization: Effects of speech rate and intonation style during metronome stimulation. *Journal of Speech, Language, and Hearing Research*, *53*, 1579-1594.

Bothe, A.K. & **Richardson, J.D.** (2011). Statistical, practical, clinical, and personal significance: Definitions and applications in speech-language pathology. *American Journal of Speech-Language Pathology*, *20*, 233-242.

Richardson, J.D., Baker, J.M., Morgan, P.S., Rorden, C., Bonilha, L., & Fridriksson, J. (2011). Cerebral perfusion in chronic stroke: Implications for lesion-symptom mapping and functional MRI. *Behavioural Neurology*, *24*(2), 117-122.

Fridriksson, J., **Richardson, J.D.**, Baker, J.M., & Rorden, C. (2011). Transcranial direct current stimulation improves naming reaction time in fluent aphasia: A double-blind, sham-controlled study. *Stroke*, *42*, 819-821.

Fridriksson, J., **Richardson, J.D.**, Fillmore, P., & Cai, B. (2012). Left hemisphere plasticity and aphasia recovery. *NeuroImage*, *60*(2), 854-863.

Richardson, J.D., Fillmore, P., Rorden, C., LaPointe, L., & Fridriksson, J. (2012). Re-establishing Broca's initial findings. *Brain and Language*, *123*(2), 125-130.

Dmochowski, J.P., Datta, A., Huang, Y., **Richardson, J.D.**, Bikson, M., Fridriksson, J., & Parra, L.C. (2013). Targeted transcranial direct current stimulation for rehabilitation after stroke. *NeuroImage*, *75C*, 12-19.

Richardson, J.D., Fillmore, P., Datta, A., Bikson, M., & Fridriksson, J. (2014). Toward development of sham protocols for transcranial direct current stimulation using high-definition electrodes. *NeuroRegulation*, *1*(1), 62-72.

Richardson, J.D., Fridriksson, J., Datta, A., Dmochowski, J., & Parra, L.C. (2014). High-definition transcranial direct current stimulation (HD-tDCS) to enhance computerized treatment outcomes in persons with aphasia: A feasibility study. *NeuroRehabilitation*. [Epub ahead of print]

Hudspeth, S.G., Meredith, L., & **Richardson, J.D.** (2015). The promise of learning potential assessment to predict outcomes in adults with and without stroke. *Ohio Speech Language Hearing Association Journal (eHearsay)*, *5*(1), 75-85 (aphasia-friendly - 222-226).

Dalton, S.G. & **Richardson, J.D.** (2015). Core-lexicon and main-concept production during picture-sequence description in adults without brain damage and adults with aphasia. *American Journal of Speech-Language Pathology*, *24*, S923-S938.

Richardson, J.D. & Dalton, S.G. (2016). Main concepts for three different discourse tasks in a large non-clinical sample. *Aphasiology*, *30*(1), 45-73.

Richardson, J.D., Dalton, S.G., Shafer, J., Shultz, C., Patterson, J., & Domoto-Reilly, K. (submitted). Assessment fidelity in aphasia research. *American Journal of Speech-Language Pathology*.

Malyutina, S., **Richardson, J.D.**, & den Ouden, D.B. (submitted). Verb argument structure in narrative speech: Mining the AphasiaBank. *Seminars in Speech and Language*.

Manuscripts in Preparation (drafts available upon request)

Richardson, J.D. & Dalton, S.G. (manuscript in preparation). Main concept production in persons with aphasia: A comparison of subtypes.

Richardson, J.D. & Dalton, S.G. (manuscript in preparation). Story grammar analysis in persons with mild aphasia.

Richardson, J.D. & Marshall, R. (manuscript in preparation). The effect of constraint-induced aphasia therapy on naming and discourse in individuals with aphasia.

Thors, H., **Richardson, J.D.**, Holland, A., Hanayik, T., & Fridriksson, J. (manuscript in preparation). Dual stream model guided treatment of aphasia.

Haley, K., **Richardson, J.D.**, Jacks, A., & Silverman, M. (manuscript in preparation). Life activity choices by people with aphasia, family members, and older adults.

Richardson, J.D., Luke, S.G., & Dalton, S.G. (manuscript in preparation). Increased reading efficiency as measured by eye movements following left-lateralizing transcranial direct current stimulation.

Bikson, M., Kronberg, G., Truong, D., Thomas, C., Mourdoukoutas, A., **Richardson, J.D.**, Turkeltaub, P.E., Gillick, B., Kirton, A., Liebetanz, D., Fritsch, B., Woods, A., Knotkova, H., Jankord, R., Fregni, F., Hempstead, B., Boggio, P.S., Rotenberg, A., Liu, A., Loo, C., Brunoni, A., & Nitsche, M. (manuscript in preparation). Safety of transcranial direct current stimulation: Evidence based update 2015.

Kappenman, E., Kostecki, P.T., Giordano, J., Bradshaq, P., Kozumbo, W., Leak, R.K., Hamblin, M., Bikson, M., Clark, V.P., Nitsche, M.A., Hamilton, R., McKinley, A., Jankford, R., Reilly, J.P., Coslett, B., Nelson, J., **Richardson, J.D.**, Siegelmann, H., Wurzman, R., & Calabrese, E.J. (manuscript in preparation). Proceedings of the 2015 Air Force Program Planning meeting on dosimetry and mechanisms mediating responses to tDCS.

Invited Lectures/Presentations

Richardson, J.D., & Fillmore, P. (2011, February). *New insights into aphasia recovery*. Invited lecture presented at the South Carolina Speech-Language-Hearing-Association, Charleston, SC.

Richardson, J.D., & Hubbard, H.I. (2013, June). *The use of speech entrainment in aphasia rehabilitation*. Invited presentation presented at the Aphasia Virtual Conference for SpeechPathology.com.

Richardson, J.D. (2013, November). *A blinding problem: Sham stimulation in tDCS*. Invited presentation presented at NYC Neuromodulation Conference, New York, NY.

Richardson, J.D. (2014, June). *Progress towards clinical predictors of the life participation of persons with aphasia*. Invited presentation for "Research, Evidence, Application, & Learning (REAL) Talks: Inspiring the Future of Communication Disorders", College of Education, University of Georgia, Athens, GA.

Richardson, J.D. (2015, January). *Highlights and Breaking News in tDCS – Using eyetracking to measure tDCS-induced changes in cognitive-linguistic performance*. Invited presentation presented at NYC Neuromodulation Conference, New York, NY.

Richardson, J.D. (2015, January). *Outcome measures in brain stimulation enhanced treatment of aphasia in the context of the WHO-ICF*. Invited presentation for panel discussion presented at NYC Neuromodulation Conference, New York, NY.

Richardson, J.D. (2015, January). *The impact of aphasia in the lives of brain injury survivors and their care partners*. Invited presentation for TEDx Columbia, Columbia, SC.

Richardson, J.D. (2015, February). *The search for clinical predictors of life participation in persons with aphasia*. Invited presentation for South Carolina Speech Language Hearing Association, Myrtle Beach, SC.

Richardson, J.D. (2015, July). Invited expert for Air Force Program Planning meeting on dosimetry and mechanisms mediating responses to tDCS, Amherst, MA.

Richardson, J.D. (2015, August). *Maximizing recovery potential after brain injury*. Invited presentation for New Mexico Brain Network, Albuquerque, NM.

Richardson, J.D. (2015, October). *Investigating ways to maximize recovery potential in adults with brain injury*. Invited presentation for Southwest Conference on Disability, Albuquerque, NM.

Holland, A. & **Richardson, J.D.** (2015, November). *The impact of aphasia in the lives of brain injury survivors and their care partners – Saudi adaptation*. Invited seminar for Saudi International Conference for Hearing and Speech.

Refereed Conference Abstracts and Articles

Dmochowski, J.P., Bikson, M., Datta, A., **Richardson, J.D.**, Fridriksson, J., & Parra, L.C. (2012). On the role of electrical field orientation in optimal design of transcranial direct stimulation. *Conference Proceedings of the 34th Annual International IEEE Engineering in Medicine and Biology Society Conference*, 6426-6429.

Richardson, J.D., Fillmore, P., Datta, A., Truong, D., Hudspeth, S.G., Bikson, M., & Fridriksson, J. (2014). Sham protocols for transcranial direct current stimulation using high-definition electrodes. *Brain Stimulation*, 7(2), e8.

Richardson, J.D., Datta, A., Dmochowski, J., Parra, L., & Fridriksson, J. (2014). HD-tDCS to enhance behavioral treatment for aphasia: A feasibility study. *Brain Stimulation*, 7(2), e9.

Richardson, J.D. & Hudspeth, S.G. (2014). Story grammar analysis in persons with mild aphasia. *2014 Clinical Aphasiology Conference, St. Simons, GA*.

Hudspeth, S.G. & **Richardson, J.D.** & (2014). Core lexicon and main concept production during picture description. *2014 Clinical Aphasiology Conference, St. Simons, GA*.

Richardson, J.D. & Hudspeth, S.G. (2014). Main concept production in persons with aphasia: A comparison of subtypes. *2014 Clinical Aphasiology Conference, St. Simons, GA*.

Richardson, J.D. & Hudspeth, S.G. (2015). Assessment fidelity in aphasia research. *2015 Clinical Aphasiology Conference, Monterey, CA*.

Hudspeth, S.G., **Richardson, J.D.**, Saunders, W.M., Haley, K., & Jacks, A. (2015). The relationship between discourse performance with and without gesture use and life participation in adults with aphasia. *2015 Clinical Aphasiology Conference, Monterey, CA*.

Gadson, D.S., Marshall, R.S., & **Richardson, J.D.** (2015). Evaluating quality of life and language in a comprehensive aphasia rehabilitation education program (CARE). *2015 Clinical Aphasiology Conference, Monterey, CA*.

Den Ouden, D.B., Malyutina, S., & **Richardson, J.D.** (2015). Verb argument structure in narrative speech: Mining the AphasiaBank. *Frontiers in Psychology Conference Abstract: Academy of Aphasia 53rd Annual Meeting*.

Conference Presentations

Davidow, J., **Richardson, J.**, Bothe, A.K., & Andreatta, R. (2006, November). *Informing clinical stuttering practice through basic research in neuroplasticity*. Poster presented at the American Speech-Language-Hearing Association Convention, Miami, FL.

Richardson, J., & Marshall, R. (2008, February). *Massed practice in aphasia: Necessary, but not sufficient?* Poster presented at the International Neuropsychological Society Meeting, Waikoloa, HI.

Davidow, J.H., Bothe, A.K., Andreatta, R.D., & **Richardson, J.D.** (2008, November). *A systematic study of modified vocalization during metronome stimulation*. Poster presented at the American Speech-Language-Hearing Association Convention, Chicago, IL.

Richardson, J.D. & Marshall, R.S. (2008, November). *Investigating the principles of constraint-induced aphasia therapy: Massed practice*. Technical session presented at the American Speech-Language-Hearing Association Convention, Chicago, IL.

Richardson, J.D., Marshall, R.S., & Bothe, A. (2009, November). *Generalization in individuals with aphasia following introduction of constraint-induced aphasia therapy*. Technical session presented at the American Speech-Language-Hearing Association Convention, New Orleans, LA.

Davidow, J., Bothe, A., **Richardson, J.**, & Andreatta, R. (2009, November). *Modified vocalization during metronome entrainment in adults who stutter*. Poster presented at the American Speech-Language-Hearing Association Convention, New Orleans, LA.

Baker, J.M., **Richardson, J.D.**, & Fridriksson, J. (2010, October). *Transcranial direct current stimulation (tDCS) applied to the left posterior cortex improves language performance in fluent aphasia*. Poster presented at the Neurobiology of Language Conference in San Diego, CA.

Fillmore, P., **Richardson, J.**, Fridriksson, J., & Fridriksson, J. (2011). *VESTPA: Visually enhanced speech treatment for persons with aphasia - A freely available web-based therapy program*. Poster presented at the Entertainment Software and Cognitive Neurotherapeutics Society, San Francisco, CA.

Richardson, J.D., Fridriksson, A., Franklin, D., Graczyk, E., & Fridriksson, J. (2012). *Measuring structural connectivity to predict language impairment in aphasia*. Poster presented at the Society for Neurobiology of Language Conference in San Sebastian, Spain.

Hudspeth, S.G., Dillow, E.P., Campbell, S.L., Williams, A.N., & **Richardson, J.D.** (2013). *Development of clinician-friendly discourse analysis tools: Main concept analysis*. Poster presented at the South Carolina Speech-Language-Hearing Association, Columbia, SC.

Dillow, E.P., Ford, K., & **Richardson, J.D.** (2013). *Core verb use in persons with aphasia during Cinderella retelling*. Poster presented at the South Carolina Speech-Language-Hearing Association, Columbia, SC.

Hudspeth, S.G., Dillow, E.P., Campbell, S.L., Williams, A.N., & **Richardson, J.D.** (2013). *Development of clinician-friendly discourse analysis tools: Main concept analysis*. Poster presented at the South Carolina Speech-Language-Hearing Association, Columbia, SC. (**Main concepts for a single discourse task**)

Dillow, E.P., Ford, K., & **Richardson, J.D.** (2013). *Core verb use in persons with aphasia during Cinderella retelling*. Poster presented at the South Carolina Speech-Language-Hearing Association, Columbia, SC.

Hudspeth, S.G., Campbell, S., Williams, N., Dillow, E., & **Richardson, J.D.** (2013). *Development of clinician-friendly discourse analysis tools: Main concept analysis*. Poster presented at the American Speech-Language-Hearing Association Convention, Chicago, IL. (**Main concepts for three discourse tasks**)

Richardson, J.D., Hudspeth, S.G., Saunders, W., & Payne, V. (2013). *Story narrative in anomia: Analysis of story grammar components*. Poster presented at the American Speech-Language-Hearing Association Convention, Chicago, IL.

Campbell, S., Williams, N., Hudspeth, S.G., Franklin, D., & **Richardson, J.D.** (2013). *Discourse measures in aphasia and observer ratings of comfort and typicality*. Poster presented at the American Speech-Language-Hearing Association Convention, Chicago, IL.

Hudspeth, S.G., Dillow, E., & **Richardson, J.D.** (2013). *Core lexicon analysis: Efficient assessment of narrative discourse in persons with aphasia*. Technical session presented at the American Speech-Language-Hearing Association Convention, Chicago, IL.

- Richardson, J.D.**, Holland, A., Forbes, M., MacWhinney, B., & Fromm, D. (2013). *Research, clinical, and educational applications of AphasiaBank*. Oral seminar (2 hours) given at the American Speech-Language-Hearing Association Convention, Chicago, IL.
- Richardson, J.D.**, Fillmore, P., Datta, A., Truong, D., Hudspeth, S.G., Bikson, M., & Fridriksson, J. (2013). *Sensation ratings during high-definition transcranial direct current stimulation (HD-tDCS)*. Poster presented at the first annual NYC Neuromodulation Conference, New York, NY.
- Richardson, J.D.**, Datta, A., Dmochowski, J., Parra, L., & Fridriksson, J. (2013). *HD-tDCS to enhance behavioral treatment for aphasia: A feasibility study*. Poster presented at the first annual NYC Neuromodulation Conference, New York, NY.
- Haley, K., **Richardson, J.D.**, Harmon, T., Jacks, A., & Silverman, M. (2014). *Life activity choices by people with aphasia, family members, and older adults*. Poster presented at the American Speech-Language-Hearing Association Convention, Orlando, FL.
- Hudspeth, S.G., Fogerty, D., & **Richardson, J.D.** (2014). *Effects of frequency, competition, and noise on spoken word recognition for young and old adults*. Technical research session presented at the American Speech-Language-Hearing Association Convention, Orlando, FL.
- Jacks, A., Silverman, M., **Richardson, J.D.**, & Haley, K. (2014). *Communication, activity, and life participation in adults with aphasia: A university-community partnership in the Carolinas*. Seminar presented at the American Speech-Language-Hearing Association Convention, Orlando, FL.
- Malyutina, S., **Richardson, J.D.**, & den Ouden, D. (2014). *Verb argument structure complexity in discourse in aphasia*. Poster presented at the American Speech-Language-Hearing Association Convention, Orlando, FL.
- Saunders, W., Payne, V., Haley, K., Jacks, A., Silverman, M., & **Richardson, J.D.** (2014). *Predicting changes in the lives of caregivers of persons with aphasia*. Poster presented at the American Speech-Language-Hearing Association Convention, Orlando, FL.
- Richardson, J.D.**, Luke, S., & Hudspeth, S.G. (2015). *Are eye-movements during paragraph reading affected by low-dosage transcranial direct current stimulation (tDCS)*. Poster presented at the NYC Neuromodulation Conference, New York City, NY.
- Galletta, E., Buchwald, A., **Richardson, J.D.**, Fridriksson, J., Hamilton, R., Turkeltaub, P., & Marangolo, P. (2015). *Considerations for research treatment of aphasia combining neuromodulation and speech-language intervention*. Poster presented at NYC Neuromodulation Conference, New York City, NY.
- Clasen, S.J., Hudspeth, S.G., Marshall, R.S., & **Richardson, J.D.** (2015). *Change in discourse ability for untrained picture description tasks following intensive aphasia therapy*. Poster presented at the South Carolina Speech-Language-Hearing Association, Myrtle Beach, SC.
- Saunders, W.M., Hudspeth, S.G., Carmody, C., & **Richardson, J.D.** (2015). *The relationship between discourse performance and life participation in persons with aphasia*. Poster presented at the South Carolina Speech-Language-Hearing Association, Myrtle Beach, SC.
- Richardson, J.D.**, Saunders, W.M., Hudspeth, S.G., Jacks, A., Silverman, M., & Haley, K. (2015). *The relationship between discourse performance and life participation in persons with aphasia*. Poster presented at Aphasia Access Leadership Summit, Boston, MA.
- Haley, K., Jacks, A., **Richardson, J.D.**, & Silverman, M. (2015). *Writing and using life-participation goals for people affected by aphasia*. Poster presented at AphasiaAccess Leadership Summit, Boston, MA.

Jacks, A., Silverman, M., **Richardson, J.D.**, & Haley, K. (2015). *Communication, activity, and life participation in adults with aphasia: Overview of the first year of a university-community research partnership*. "Brag and Steal" oral session presented at AphasiaAccess Leadership Summit, Boston, MA.

Richardson, J.D. & Hudspeth, S.G. (2015). *Assessment fidelity in aphasia research*. Roundtable discussion facilitated at Clinical Aphasiology Conference, 2015, Monterey, CA.

Hudspeth, S.G., **Richardson, J.D.**, Saunders, W.M., Haley, K., & Jacks, A. (2015). *The relationship between discourse performance with and without gesture use and life participation in adults with aphasia*. Poster presented at Clinical Aphasiology Conference, 2015, Monterey, CA.

Gadson, D.S., Marshall, R.S., & **Richardson, J.D.** (2015). *Evaluating quality of life and language in a comprehensive aphasia rehabilitation education program (CARE)*. Poster presented at Clinical Aphasiology Conference, 2015, Monterey, CA.

den Ouden, D-B., Malyutina, S., & **Richardson, J.D.** (2015). *Verb argument structure in narrative speech: Mining the AphasiaBank*. Platform presentation to be presented as part of symposium titled "The rise of big-data in aphasiology: An opportunity for theory development" at Academy of Aphasia, Tucson, AZ.

Dalton, S.G. & **Richardson, J.D.** (2015). Learning potential in adults with aphasia and healthy controls. Poster presented at ASHA 2015, Denver, CO.

Richardson, J.D., Dalton, S.G., Harlow, V., Haley, K., Jacks, A., & Silverman, M. (2015). *Story grammar analysis in persons with aphasia*. * Poster presented at ASHA 2015, Denver, CO. *ASHA Meritorious Poster Submission certificate

Haley, K., **Richardson, J.D.**, Jacks, A., de Riesthal, M. (2015). *Setting goals for communicative life participation in aphasia*. One-hour oral session presented at ASHA 2015, Denver, CO.

Thors, H., **Richardson, J.D.**, & Fridriksson, J. (2015). *Dual stream model guided treatment of aphasia*. Poster presented at the Society for Neurobiology of Language Conference in Chicago, IL.

Richardson, J.D., Dalton, S.G., & Shultz, C. (2015). Assessment fidelity in aphasia treatment studies. Poster presented at New Mexico Speech-Language-Hearing Association, Albuquerque, NM.

Clasen, S.J., Dalton, S.G., Marshall, R., & **Richardson, J.D.** (2015). Change in discourse ability for untrained picture description tasks following intensive aphasia therapy. Poster presented at New Mexico Speech-Language-Hearing Association, Albuquerque, NM.

Haley, K., Jacks, A., **Richardson, J.D.**, & Wambaugh, J. (2015). *Perceptually salient sound distortions and apraxia of speech*. Poster to be presented at Motor Speech Conference 2016, Newport Beach, CA.

Book Chapters

Richardson, J.D. & Fridriksson, J. (2015). The insular cortex. In G. Hickok and S.L. Small (Eds.), *The neurobiology of language*. Academic Press.

Other Publications

Fridriksson, J., Baker, J., & **Richardson, J.D.** (2010, July 06). What can neuroimaging tell us about aphasia? *The ASHA Leader*.

Research Funding

Awards in Progress

Provost Social Sciences Grant

Reward period: 05/2014 – 05/2016 Reward amount: \$19,995.05

Investigating the relationship between non-transcription-based discourse analysis measures and life participation in persons with aphasia

Role: PI

ASPIRE-III (Advanced Support Program for Infrastructure in Research Excellence) Internal Grant

Reward period: 05/2015 – 11/2016 Reward amount: \$99,956

m-Eye Lab: Mobile Eyetracking Lab for Research with Special Populations

Role: Co-PI

Completed

NIH Extramural Clinical Research Loan Repayment Program

Reward period: 07/2010 – 06/2012 Repayment amount: \$39,150.96

The role of perfusion in aphasia recovery

ASPIRE-III (Advanced Support Program for Infrastructure in Research Excellence) Internal Grant

Reward period: 5/2012 – 8/2013 Reward amount: \$32,990

MRI Simulator Shared Laboratory

Purpose: To purchase a MRI simulator to allow users to pilot experiments as well as to acclimatize participants to the noisy and confined environment of a MRI scanner.

Role: Co-Investigator (PIs: Chris Rorden, John Richards)

SCTR (South Carolina Clinical and Translational Research Institute) Discovery Grant

Reward period: 07/2012 – 06/2013 Reward amount: \$47,113

Examining tDCS dosage and task effects using eye movements in reading

Purpose: Use eye movement data to directly compare the effects and aftereffects of reading and resting conditions to provide information regarding task-dependent tDCS effects, a crucial first step for determining optimal dosage parameters for clinical settings.

Role: Principal Investigator

NIH Extramural Clinical Research Loan Repayment Program - Renewal

Reward period: 07/2012 – 06/2013 Repayment amount: \$18,958.38

Transcranial direct current stimulation during MRI

Purpose: Investigate changes in the brain during application of tDCS via fMRI using ASL contrast in persons with chronic stroke-induced aphasia.

Grant proposal to private funding source (The Chapman Foundation)

Reward period: 12/2012 – 08/2014 Reward amount: \$12,500

Establishing main concepts and main events for selected AphasiaBank discourse tasks

Role: Principal Investigator

Student award – American Heart Association Student Scholarship in Cerebrovascular Disease & Stroke

Reward period: 2014

Reward amount: \$2000

Student: Sarah Grace Hudspeth

Advancing Academic-Research Careers (AARC) Award

Reward period: 08/2013 – 05/2015

Reward amount: \$5000

Role: PI

Awards Pending Decision

NIH P50 (NIDCD Clinical Research Center Grant)

Center for the Study of Aphasia Recovery (C-STAR)

Purpose: To improve recovery from aphasia by better understanding how neurophysiology and anatomy as well as theory driven aphasia treatment relate to long-term outcome.

Role: Co-Investigator (PI: Julius Fridriksson)

Not Awarded

NIH R01 – A type 2 renewal application

Neural predictors of aphasia recovery

Purpose: To understand which patients respond to behavioral aphasia treatment and relate treatment outcome to brain physiology and structure.

Role: Co-Investigator (PI: Julius Fridriksson)

ASPIRE-I (Advanced Support Program for Innovation in Research Excellence) Internal Grant

The effect of tDCS on the literacy and literacy-related skills of college students with learning disabilities

Purpose: To examine the effect of transcranial direct current stimulation (tDCS) on the performance of college students with documented learning disabilities as they engage in literacy and literacy-related tasks.

Role: Co-Principal Investigator (PI: Kenn Apel)

ASPIRE-II (Advanced Support Program for Integration in Research Excellence) Internal Grant

Using clinical neuroimaging with bedside assessments to improve prognosis of post-stroke outcomes

Role: Principal Investigator

American Association of University Women (AAUW), American Fellowships, Summer/Short-Term Research Publication Grant

Using eyetracking to measure auditory comprehension of discourse

Role: PI

ASPIRE-I (Advanced Support Program for Innovation in Research Excellence) Internal Grant

Non-transcription-based discourse analysis for picture description tasks: Inter-method reliability

Role: PI

ASHFoundation New Century Scholars Award

Using clinical neuroimaging with bedside assessments to improve prognosis of post-stroke outcomes after first and recurrent stroke

Role: PI

Student award – SPARC Graduate Research Grant, 2014

Student award – CAPCSD/Plural Publishing Grant, 2014

Student award – Magellan Grant, 2014

AHA Collaborative Sciences Award - 2015

Treating Individuals Post Stroke in a Dyad-Based, Technology-Assisted Weight Loss Program

Purpose: To determine the efficacy of an evidence-based, technology-assisted behavioral weight control intervention delivered to dyads, in which the stroke survivor and an overweight or obese support person whom they identify as a partner in weight loss are treated together.

Role: Co-Investigator (PIs: Delia West, Stacy Fritz)

National Institute on Disability, Independent Living, and Rehabilitation Research (NIDILRR) - 2015

Individual and environmental contributors to life participation of community-dwelling persons with aphasia and their care partners

Purpose: To determine how well individual factors (i.e., limitations in body function and structure, life activities, personal contextual factors) and environmental factors (i.e., environmental contextual factors) predict community living and participation limitations.

Role: Co-PI (PIs: Adam Jacks, Katarina Haley)

American Heart Association/American Stroke Association Young Investigator Database Research Seed Grant - 2015

Patient factors, quality of care, and outcomes for persons with aphasia post-stroke: A Get With The Guidelines – Stroke study.

Purpose: To describe patient, quality of care, discharge, and 30-day follow-up outcomes for persons with acute ischemic stroke accompanied by aphasia/language disturbance and compare to persons with acute ischemic stroke without aphasia/language disturbance.

Role: PI

Awards and Honors

Recipient of Hope Scholarship, 1995-2001

Awarded Wesley Adair Scholarship Trust, 2000-2001

Golden Key National Honors Society, Delta Epsilon Iota National Honor Society, National Society of Collegiate Scholars, The University of Georgia, 2000-2001

Recipient of Merit-based Graduate Tuition Waiver, The University of Arizona, 2001-2003

Recipient of Jean R. Guloiien Outstanding Master's Student Award, Department of Speech and Hearing Sciences, The University of Arizona, 2003

Recipient of Outstanding Teaching Assistant Award, The University of Georgia, Spring 2008

Selected to participate in The Graduate School's Emerging Leaders Program, The University of Georgia, Fall 2008

Voted "Most Influential Professor" by the Class of 2009 National Student Speech-Language-Hearing Association Members, Spring 2009

Awarded Advancing Academic Research Careers (AARC) Award, American Speech-Language Hearing Association, 2013

Young Investigator Award, NYC Neuromodulation Conference, 2013

Invited Speaker, TEDxColumbiaSC, 2015

Awarded Meritorious Poster Submission certificate, ASHA, 2015

Teaching Experience

Instructor of Record

COMD 502, Neurocognitive Bases of Language Behavior (graduate)

Fall 2013, 37 students; Fall 2014, 32 students

COMD 705, Language Disorders in Adults (graduate)

Spring 2010, 41 students

COMD j705, Language Disorders in Adults (distance education; graduate)

Spring 2010, 33 students; Spring 2013, 34 students

COMD 711, Seminar in Speech-Language Pathology (graduate)

Spring 2014, 9 students; Spring 2015, 9 students

COMD 721, Cognitive Retraining (graduate)

Spring 2013, 31 students

SHS 450, Neural Basis of Communicative Disorders (undergraduate and graduate)

Fall 2015, 51 students

Teaching Assistant (with Instructor duties)

CMSD 4090/4010, Phonetics (undergraduate)

Fall 2004, 63 students; Fall 2005, 40 students

CMSD 3010, Speech & Voice Science I (undergraduate)

Fall 2006, 52 students

CMSD 3110, Speech & Voice Science II (undergraduate)

Spring 2007, 49 students; Spring 2008, 45 students; Spring 2009, 45 students

CMSD 4800, Principles of Communication Neuroscience (undergraduate and graduate)

Fall 2007, 5 undergraduate students, 19 graduate students

Student Research Supervision – In Progress

Doctoral committee chair

Sarah Grace Hudspeth, COMD, 2013-present

Thesis committee chair

Trisha Tanaka, SHS, 2016-present

Elizabeth Young, SHS, 2016-present

Jacob Osborn, SHS, 2016-present

Thesis committee member

Sheida Abdi, COMD (USC), 2015-present

Bryan Ho, SHS, 2016-present

Masters research mentor

Olivia Catt and Laura Goodrich, COMD, 2014-present, "Predictors of life participation in persons with aphasia"

Jennifer Nelson and Jordan Patrick, COMD, 2014-present, "Reliability of non-transcription-based discourse measures"

Student Research Supervision – Completed

Doctoral dissertation committee member

Denise Peters, EXSC, 2011-2015, "Correlation between white matter integrity and upper and lower extremity motor function in chronic stroke"

Kimberly Smith, COMD, 2014-2015, "Eye movements of individuals with aphasia during reading and scene viewing"

Doctoral comprehensive exams committee member

Denise Peters, EXSC, 2011

H. Isabel Hubbard, COMD, 2012

Jenn Olejarczyk, PSYC, 2014-2015, "Is oculomotor control synonymous with cognitive control?"

William Brixius, PSYC, 2015, "Recruitment of occipital cortex in the absence of phenomenal vision"

Thesis committee chair

Emily Dillow, COMD, 2013, "*Narrative discourse in aphasia: Main concept and core lexicon analyses of the Cinderella story*"

Thesis committee member

Rebekah DeGarmo (COMD), 2010, "*Do baseline language impairment measures predict anomia treatment outcomes?*"

Masters research mentor

Whitney Saunders, COMD, 2013-2014, "*The relationship between discourse performance and life participation in persons with aphasia*"

Presented at 2014 COMD Research Festival, 2015 South Carolina Speech Language Hearing Association, 2015 AphasiaAccess Leadership Summit

Samantha Clasen, COMD, 2013-2014, "*Change in discourse ability for untrained picture description tasks following intensive aphasia therapy*"

Presented at 2014 COMD Research Festival, 2015 South Carolina Speech Language Hearing Association

Sara Mallon and Stephanie Miller, COMD, 2013-2014, "*Auditory vigilance and auditory comprehension in persons with aphasia*"

Presented at 2014 COMD Research Festival

Monica Davis and Whitney Smith, COMD, 2012-2013, "*Main concept production in persons with aphasia: A comparison of subtypes*"

Presented at 2013 COMD Research Festival and 2014 Clinical Aphasiology Conference
Sarah Campbell and Nicole Williams, COMD, 2012-2013, "*Discourse measures in aphasia and observer ratings of comfort and typicality*"

Presented at 2013 COMD Research Festival and 2013 American Speech-Language Hearing Association Convention

Hannah Summer, COMD, 2012, "*The effects of low-dosage noninvasive brain stimulation on eye movements during paragraph reading*"

Presented at 2012 COMD Research Festival

Laura Connor and Erin Morrow, COMD, 2012, "*Gender and discourse: Is his story different from her story?*"

Presented at 2012 COMD Research Festival

Emily Dillow and Katie Ford, COMD, 2012, "*Cinderella sweeps, dances, and lives happily ever after: Core verb use in persons with aphasia*"

Presented at 2012 COMD Research Festival, motivated (completed) thesis project

Masters practicum supervision

Mildred Cruice, COMD, 2015

Whitney Saunders, COMD, 2015

Jenna Cunningham, COMD, 2015

Samantha Clasen, COMD, 2014

Stephanie Miller, COMD, 2014

Sarah Campbell, COMD, 2013-2014

Nicole Williams, COMD, 2013-2014

Stacey Blagg, COMD, 2014

Monica Davis, COMD, 2014

Whitney Smith, COMD, 2014

Erin Eagerton, COMD, 2014

Susan Geiger, COMD, 2014

Casey Grant, COMD, 2014

Hannah Summer, COMD, 2012

Undergraduate thesis committee member

Caroline Clark, PSYC, 2011, "*Functional MRI naming performance correlates with naming ability in aphasia studies*"

Undergraduate research mentor

Caroline Carmody, post-bac, 2014-2015, "Age differences in lexical usage"

Victoria Harlow, BIOL, 2014-2015, "Eye movements during reading tasks"

Zachary Irvin, EXSC, 2015

Taylor McDonald, EXSC, 2015

Kirby O'Keefe, EXSC, 2015

Lindsay Meredith, PSYC, 2014, Two projects: 1) *Are eye-movements during paragraph reading affected by low-dosage transcranial direct current stimulation (tDCS)?* 2) *Learning potential as a predictor of treatment response* (Visiting Scholar, Summer Research Experience in Brain and Cognitive Sciences [SREBCS]) (PSYC)

Project 1 involved preliminary analysis of full set of data presented at 2015 NYC Neuromodulation Conference; Project 2 was used as foundation for manuscript in press

Virginia Payne, PSYC, 2013-2014, *Health status and life participation changes in the lives of caregivers of persons with aphasia* (Magellan mini-grant)

Catherine Skahen, Premed, 2013-2014, Recruitment and assessment for study titled *Using Acute Neuroimaging to Predict Outcomes in Stroke*

Emily Graczyk and Taylor Hanayik, BMEN and PSYC, 2012, *Sensation ratings during high-definition transcranial direct current stimulation* (BMEN and PSYC)

Poster presented at USC Discovery Day

Service

Local/Regional community services and relations

Tier I judge for the 60th Georgia Science and Engineering Fair, April 2008
Facilitator, Stroke Recovery Groups, The University of South Carolina, 2011 – 2013
Provided training session, “*How to communicate effectively with adults with communication disorders*”, for Adult Protective Services caseworkers (organized by SC Department of Social Services and USC Center for Child and Family Studies), February 2013
Columbia Rotary Club presentation, “*Communicating with adults with acquired communication disorders*”, February 2014
Consultant, The University of Georgia Summer Comprehensive Aphasia Rehabilitation Education (CARE Dawgs) Program, June 2014
Facilitator, Aphasia Communication Group, Tuomey Healthcare System/University of South Carolina, 2014-present

Department Committees

Member, Search Committee for Assistant Professor, 2007
Member, Computer Committee, 2012-2013
Member, Admissions, 2012-2013
Member, PhD Committee, 2012-2015
Member, IPE Committee, 2013-2015
Member, Library Liason, 2015-present
Member, Ph.D. program planning working group, 2015-present

School Committee

Member, Information Technology and Resources, 2013-2015

University Committee

Member, Inter-professional education (IPE) Committee, 2014-2015

Professional Committees

Member, Program Committee for Speech Science, 2006 Annual Convention of the American Speech-Language-Hearing Association

Professional/Scholarly Service

Invited Reviewer

ASHA Perspectives Special Interest Division 5: Speech Science and Orofacial Disorders, 3 manuscripts, 2008; 4 manuscripts, 2008
American Journal of Speech-Language Pathology, 1 manuscript, 2011; 2 manuscripts, 2014
Aphasiology, 1 manuscript, 2010; 2 manuscripts, 2013
Brain Stimulation, 3 manuscripts, 2014
Brain and Language, 1 manuscript, 2012; 2 manuscripts and 1 revision, 2013; 1 revision, 2014
Disability and Rehabilitation, 1 manuscript, 2012
Neurocase, 1 manuscript, 2012
Grant reviewer, NSERC Biological Systems and Functions, 2014-2015

Invited Associate Editor

American Journal of Speech-Language Pathology, 1 manuscript, 2014

Associate Editor

Journal of Speech, Language, and Hearing Research, 2013-present – 18 manuscripts, 20 revisions

Committee Member

AphasiaAccess Academic Curricula Working Group, 2015-present

Professional Affiliations

Academy of Neurologic Communication Disorders & Sciences
American Heart Association/American Stroke Association
American Speech-Language-Hearing Association
 Special Interest Division 2: Neurophysiology and Neurogenic Speech and Language Disorders
 Special Interest Division 5: Speech Science and Orofacial Disorders
Business and Professional Women, South Carolina
International Neuropsychological Society
National Institutes for Health Loan Repayment Program Ambassador Network
Society for the Neurobiology of Language
Triangle Aphasia Project

Certification

SLP, Certified Member, American Speech-Language-Hearing Association, #12057372

Continuing Education

American Speech-Language-Hearing Association (ASHA) Conference, 2003, 2006, 2008, 2009, 2012, 2013, 2014, 2015
AphasiaBank Discourse Transcription training, Carnegie Mellon University, 2011
Applied Behavior Analysis seminar, Spring 2004
Clinical Aphasiology Conference, 2014, 2015
ERP mini boot camp, Steven Luck at University of South Carolina, 2013
Feeding and Nutrition seminar, Spring 2006
High-definition Transcranial Direct Current Stimulation training, 2011
Human Empowerment and Leadership Principles safety management continuum training and certification, 2004
Interprofessional Care for the 21st Century: Redefining Education and Practice, Philadelphia, PA, 2014
Introduction to the Hanen Approach, 2008
New Mexico Speech-Language-Hearing Association Conference, 2015
NYC Neuromodulation Conference, New York, NY, 2013, 2015
Picture Exchange Communication (PECS) training and certification, Fall 2003
Society for the Neurobiology of Language (SNL) Conferences, 2009, 2010, 2012
South Carolina's Clinical and Translational Research Institute (SCTR) Biomedical Imaging Retreat, 2011
South Carolina Speech-Language-Hearing Association Conference, 2013, 2014, 2015
Southwest Conference on Disability, 2015
Transcranial Magnetic Stimulation training, Medical University of South Carolina, 2010
University of South Carolina/Medical University of South Carolina Neuroimaging Retreat, 2011