




Robert Cavanaugh

M.S. CCC-SLP

I'm a fourth-year Ph.D. Candidate in the Department of Communication Sciences and Disorders at the University of Pittsburgh. I'm also a clinical speech-language pathologist. My research aims to improve everyday communication and quality of life outcomes for people with aphasia and related neurogenic communication disorders. Specifically, I'm focused on identifying and resolving implementation gaps in aphasia rehabilitation, improving patient access to evidence-based care, and enhancing treatment specification and effectiveness. I'm also interested in applied statistics and data science, statistical programming (R + python + js), data visualization, and science communication.








Education

- Current**
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2018
● PhD Candidate, Communication Science and Disorders
University of Pittsburgh  Pittsburgh, PA
- 2015
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2013
● M.S. Speech and Hearing Sciences
University of North Carolina at Chapel Hill  Chapel Hill, NC
 - Thesis: Working Memory Capacity and Subjective Communication Difficulties in High Level Aphasia
- 2013
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2009
● B.A. Communication Science and Disorders
University of Pittsburgh  Pittsburgh, PA
 - Magna cum laude





Appointments & Positions

- Current**
|
2018
● Graduate Student Researcher
Language Rehab and Cognition Lab
University of Pittsburgh
PI: William S. Evans
- Current**
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2018
● Graduate Research Assistant, WOC
Department of Speech Pathology and Audiology
VA Pittsburgh Healthcare System
- 2021
|
2019
● Predoctoral Fellow
Institute for Clinical Research Education
University of Pittsburgh
TL1TR001858 (PI: Kraemer)
- 2015
|
2013
● Graduate Research Assistant
Center for Aphasia and Related Disorders
UNC - Chapel Hill
PI: Katarina Haley

Contact

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-  robcavanaugh.com
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-  0000-0002-2114-6565
-  Twitter

Key Interests

-  Aphasia treatment outcomes
-  Implementation Science
-  Data science & Statistics
-  #R Stats & R Shiny

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Last updated on 2022-01-03.

CV generated using {RMarkdown}

2013
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2010

- Undergraduate Research Assistant
Eye and Ear Institute
University of Pittsburgh Medical Center
PI: Patrick Sparto



Clinical Training

2018
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2016

- Speech-Language Pathologist II
Carolinas Rehabilitation, Atrium Health
Formerly, Carolinas Healthcare System 📍 Charlotte, NC

2018
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2016

- Speech-Language Pathologist II
Carolinas Neurosciences Institute, Atrium Health 📍 Charlotte, NC

2016
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2015

- Speech-Language Pathologist - Clinical Fellow
Carolinas Rehabilitation, Atrium Health 📍 Charlotte, NC



Grant Support

2021 -

- 1 F31 DC019853-01 NIH-NIDCD NRSA individual predoctoral fellowship: *Determinants of multilevel discourse outcomes in anomia treatment for aphasia*
Role: PI; Impact Score: 25
Sponsors: Michael Walsh Dickey & William S. Evans

Current
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2019

- The University of Pittsburgh CTSI–Clinical and Translational Science Fellowship: *Comparing Treatment Intensity between Research and Clinical Practice in Post-Stroke Aphasia*
Role: Predoctoral Fellow
TL1TR001858 (PI: Kraemer)
Mentors: Michael Walsh Dickey, William S. Evans, & Catherine Palmer

2019

- School of Health and Rehabilitation Sciences Research Development Fund
Role: PI; Direct Costs: \$1000
Faculty Sponsor: William S. Evans



Publications

2022

- Cavanaugh, R.**, Quique, Y.M., Dickey, M.W., Hula, W.D., Boss, E., Evans, William S. (In Press) Practice-related predictors of semantic feature verification treatment for aphasia. *American Journal of Speech-Language Pathology*

2021

- Cavanaugh, R.**, Kravetz C., Jarold L., Quique Y., Turner R., & Evans, W.S. (2021). Is There a Research–Practice Dosage Gap in Aphasia Rehabilitation? *American Journal of Speech-Language Pathology*, 30(5), 2115–2129. 10.1044/2021_AJSLP-20-00257.

2021

- Evans W.S., **Cavanaugh R.**, Quique Y, Boss E, Starns J.J., & Hula W.D. (2021). Playing With BEARS: Balancing Effort, Accuracy, and Response Speed in a Semantic Feature Verification Anomia Treatment Game. *Journal of Speech, Language, and Hearing Research*. https://doi.org/10.1044/2021_JSLHR-20-00543

- 2021 ● Kersey, J., Evans, W. S., Mullen, K., Askren, A., **Cavanaugh, R.**, Wallace, S. E., Hula, W. D., Walsh Dickey, M., Terhorst, L., & Skidmore, E. (2021). Metacognitive Strategy Training Is Feasible for People With Aphasia. OTJR: Occupation, Participation and Health. <https://doi.org/10.1177/15394492211023196>
- 2021 ● Evans, W. S., **Cavanaugh, R.**, Gravier, M. L., Autenreith, A. S., Doyle, P. J., Hula, W. D., Dickey Michael, W., & Dickey, M. W. (2020). Effects of Semantic Feature Type, Diversity, and Quantity on Semantic Feature Analysis Treatment Outcomes in Aphasia. American Journal of Speech-Language Pathology. https://doi.org/10.1044/2020_AJSLP-19-00112
- 2020 ● **Cavanaugh, R.B.**, Haley, K.L. (2020) Subjective communication difficulties in very mild aphasia. American Journal of Speech-Language Pathology, 29(1S), 437–448. https://doi.org/10.1044/2019_AJSLP-CAC48-18-0222

Refereed Presentations

- 2021 ● Evans, W.S., Quique, Y.M., **Cavanaugh, R.**, Lescht, E. (2021). Effects of adaptive distributed practice and stimuli variability in flashcard-based anomia treatment. Abstract for poster presentation, 59th Academy of Aphasia, Online
- 2021 ● **Cavanaugh, R.** Quique, Y, Boss, E, Hula, W.D., and Evans, W.S. (2021). Practicing with BEARS: Active Ingredients in Semantic Feature Analysis. Abstract for poster presentation, 51st annual Clinical Aphasiology Conference, Online
- 2021 ● Evans, W.S., **Cavanaugh, R.**, Quique, Y., Boss, E., Dickey, M.W., Doyle, P, Starns, J.J., and Hula, W.D., (2021). BEARS-Balancing Effort, Accuracy, and Response Speed in semantic feature verification anomia treatment. Abstract for platform presentation, 50th annual Clinical Aphasiology Conference, Online..
- 2021 ● Quique, Y., **Cavanaugh, R.**, Starns, J.J., Boss, E., Hula, W.D., and Evans, W.S. (2021). Estimating the speed-accuracy tradeoff “Sweet Spot” in language performance for people with aphasia: replication and extension of a diffusion-model based approach. Abstract for poster presentation, 50th annual Clinical Aphasiology Conference, Online.
- 2021 ● Boyle M, Akers C, **Cavanaugh R.**, Hula WD, Swiderski A, Elman R. (2021) Changes in informativeness following communication-based group treatment for chronic aphasia. Abstract for platform presentation, 50th annual Clinical Aphasiology Conference, Online.
- 2021 ● Akers, C, Boyle M, Swiderski A, Hula WD, **Cavanaugh R.**, Elman R. (2021) Using complete utterances to measure change in conversational discourse following communication- based group treatment. Abstract for poster presentation, 51st annual Clinical Aphasiology Conference, Online
- 2021 ● **Cavanaugh, R.**, Kravetz, C., Jarold, L., Quique, Y., Turner, R., Evans, W.S. (2021). Is there a research-practice dosage gap in aphasia rehabilitation? Abstract for poster presentation, Aphasia Access Leadership Summit, online.
- 2021 ● Nguy, B, **Cavanaugh, R.**, Quique, Y, Evans, WS. (2021). Are Aphasia Research Participants Representative of the Post-Stroke Aphasia Population in the US? Abstract for poster presentation, Aphasia Access Leadership Summit. Online conference.
- 2020 ● **Cavanaugh, R.**, Kravetz, C., Jarold, L., Quique, Y., Turner, R., Evans, W.S. (2020). Is there a research-practice dosage gap in aphasia rehabilitation? Abstract for poster presentation, 16th Annual Rehabilitation Institute Research Day. Pittsburgh, PA

- 2020 ● **Cavanaugh, R.**, Terhorst, L., Swiderski, A.W., Hula, W.D., Evans, W.S. (2020). A Systematic Appraisal of Individual Effect Sizes in Aphasia Single-Case Designs via Simulation. Abstract for poster presentation, 58th Academy of Aphasia, Philadelphia PA.
- 2020 ● Evans, WS, **Cavanaugh, R.**, Quique, Y, Boss, E, Dickey, MW, Doyle, P, Starns, J, and Hula, W (2020). BEARS-Balancing Effort, Accuracy, and Response Speed in semantic feature verification anomia treatment. Abstract for platform presentation, annual Academy of Aphasia Conference (virtual online conference).
- 2020 ● **Cavanaugh, R.**, Kravetz, C., Evans, W.S. Utilization and Disparities in Outpatient Aphasia Rehabilitation in Western Pennsylvania. Abstract for poster presentation, Pennsylvania Speech-Language Hearing Association Annual Conference, Pittsburgh, PA (Conference Canceled).
- 2019 ● **Cavanaugh, R.**, Evans, W.S., Gravier, M., Autenreith, A., Ashmore, E., Doyle, P., Hula, W., Dickey, M.W., (2019). Do the kinds of features that patients generate during Semantic Feature Analysis affect treatment outcomes? Poster presented at the 2019 Clinical Aphasiology Conference in Whitefish, MT.
- 2018 ● **Cavanaugh, R.B.**, Haley, K.L. (2018) Subjective communication difficulties in very mild aphasia. Abstract for poster presentation, 48th annual Clinical Aphasiology Conference, Austin, TX.
- 2014 ● **Cavanaugh, R.B.**, & Haley, K. (2014, April) Accounting for Aphasia-Related Language Deficits in Verbal Working Memory Assessments: A Literature Review. Poster presented at the 2014 SPHS Student Research Day in Chapel Hill, NC.



Publications Under Review & Revision

- Under Review ● Nguy, B., Quique, Y.M., **Cavanaugh, R.**, Evans, William S. (Under Review) Representation in aphasia research: an examination of US treatment studies published between 2009 and 2019
- Under Review ● Boyle, M., Akers, C., **Cavanaugh, R.**, Hula, W.D., Swiderski, A.M., Elman, R., (Under Review) Changes in Discourse Informativeness and Efficiency Following Communication-Based Group Treatment for Chronic Aphasia.
- Under Review ● Quique, Y.M., **Cavanaugh R.**, Lescht, E., Evans, William S. (Under Review) Effects of adaptive distributed practice and stimuli variability in self-managed flashcard anomia treatment: a single-case experimental design.
- In Revision ● **Cavanaugh, R.**, Swiderski, A.M., Terhorst, L., Hula, W.D., Evans, William S. (In Revision) Comparing effect size measures in aphasia single-case experimental design research.



Teaching

- 2021 ● SPHS-S 685: Research and Ethics in Speech, Language, and Hearing Sciences (University of Indiana Bloomington; Dr. Brielle Stark)
 - Guest Lecture: Writing an NIH NRSA F31 Fellowship Application
- 2021 ● CSD M.S. Summative Assessment Project (2019-2021)
 - Peer-review of M.S. - SLP students comprehensive exams
- 2020 ● CSD 2230: Neurogenic Language and Cognitive Communication Disorders
 - Guest Lecture 1: TBI: Pathophysiology and Medical Considerations
 - Guest Lecture 2: Case studies in adult neurological communication disorders

- 2020 ● SPHS 742: Aphasia (University of North Carolina at Chapel Hill; Dr. Katarina Haley)
 - Guest Lecture: Applying treatment research in clinical practice settings
- 2019 ● CSD 2230: Neurogenic Language and Cognitive Communication Disorders
 - Guest Lecture 1: TBI: Pathophysiology and Medical Considerations
 - Guest Lecture 2: Case studies in adult neurological communication disorders



Honors and Awards

- 2020 ● ANCDs Conference Student Fellowship
- 2020 ● NIH-NIDCD Academy of Aphasia conference grant (R13 DC017375-01)
- 2019 ● NIH-NIDCD Fellowship: Research Symposium in Clinical Aphasiology
- 2014 ● Adult Communication Disorders Annual Scholarship, UNC-Chapel Hill
- 2014 ● Robert W. Peters Award for excellence in research, UNC-Chapel Hill



Certification, Licensure, Memberships, and Service

- 2020 - ● Reviewer, ASHA Annual Convention: Adult Language Section
- 2020 - ● Member, Academy of Neurologic Communication Disorders and Sciences
- 2016 - ● CCC-SLP: American Speech-Language and Hearing Association (ASHA)
- 2015 - ● SLP: Board of Examiners in Speech-Language Pathology, North Carolina
- 2015 - ● Member, ASHA SIG 2: Neurogenic Communication Disorders



Software

- 2021 ● Kowalski, J., and Cavanaugh R.B. (2021). TBDBr: Easy Access To TalkBankDB via R API. <https://github.com/TalkBank/TalkBankDB-R>, <https://talkbank.github.io/TalkBankDB-R/>.
- 2021 ● Cavanaugh, R., Swiderski, A.M., Fergadiotis, G. & Hula, W.D. (2021). pnt: Computer adaptive forms of the Philadelphia Naming Test. Version 0.0.0.9 Available from <https://github.com/aphasia-apps/pnt>.