

## **Heather Raye Dial**

PI: Speech, Language, Aphasia, and the Brain Lab (SLAB Lab)  
Department of Communication Sciences and Disorders  
University of Houston  
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### **PROFESSIONAL APPOINTMENTS**

Assistant Professor, 2021-present  
University of Houston, Department of Communication Sciences and Disorders

Member, 2021- present  
University of Houston, BRAIN Center

Complementary Appointment, 2021- present  
University of Texas at Austin, Department of Speech, Language, and Hearing Sciences

Postdoctoral Fellow, 2016-2021  
University of Texas at Austin, Department of Speech, Language and Hearing Sciences, Aphasia Research and Treatment Lab  
Advisor: Dr. Maya Henry  
Secondary Advisor: Dr. Bharath Chandrasekaran, University of Pittsburgh

### **EDUCATION**

Ph.D., Psychology, Rice University, August 2016  
Thesis title: Sublexical, lexical and phonological short-term memory processes: Evaluating models of speech perception and short-term memory

M.A., Psychology, Rice University, May 2014  
Thesis Title: Separating semantic and phonological short-term memory deficits in aphasia patients using a novel concurrent probe paradigm

Systems and Cognitive Neuroscience Research Interest Group with focus on cognitive neuropsychology, psycholinguistics, aphasia, and working memory  
Advisor: Dr. Randi Martin

B.S., Psychology, University of Houston, December 2010  
Summa Cum Laude  
University Honors and Honors in Major  
Major: Psychology    Minor: Spanish  
Thesis Title: Dichotic listening using frequency filtered words  
Advisor: Dr. Merrill Hiscock

## **FELLOWSHIPS AND GRANTS**

Clinical Teachers' Association of Queen's University Research Endowment Grant  
"Speech perception and language comprehension deficits in Parkinson's Disease"  
August 2025-August 2027  
\$24,968  
Role: Co-I

NIH/NIDCD Early Career Research Award (R21DC021497)  
"Reliability and validity of temporal response function modeling in aphasia"  
January 2024 – December 2026  
\$375,000  
Role: PI

NIH/NIDCD Support for Conferences and Scientific Meetings (R13)  
Academy of Aphasia Conference Grant  
2023-present  
Role: Co-I

NSF IUCRC BRAIN Center Industry-Funded Seed Grant  
"Decoding overt and covert speech production from EEG using deep learning"  
February 1, 2022 – June 30, 2022  
\$25,000  
Role: Co-PI

UH CLASS Early Career Research Progress Grant  
"Decoding overt and covert speech production from EEG using deep learning"  
January 1, 2022 – December 21, 2022  
\$4,000  
Role: PI

NIH/NIDCD Postdoctoral NRSA (F32DC016812)  
"Investigating neural signatures of rehabilitation in primary progressive aphasia"  
June 1, 2018-May 31, 2021  
\$172,926

Lear Ashmore Research Fellowship  
February 2017  
Texas Speech and Hearing Association  
\$1400

Rice University Graduate Student Fellowship  
August 2010-July 2015  
\$77,000

Terry Scholarship

August 2006-May 2010

Undergraduate scholarship granted by the Terry Foundation to attend the University of Houston

\$80,000

## **PUBLICATIONS/MANUSCRIPTS IN PREPARATION**

<sup>φ</sup>senior author

<sup>Ω</sup>co-senior author

**Dial, H.**, & Gnanateja, G.N. (2025). Test-retest reliability of TRF-derived measures of cortical tracking of the speech envelope. *eNeuro*.

**Dial, H.**, Pugalenti, L., Gnanateja, G.N., Li, J., & Henry, M. (2025). Application of machine learning and temporal response function modeling of EEG data for differential diagnosis in primary progressive aphasia. *Scientific Reports*.

Quinn, C., Craik, A., Tessmer, R. Henry, M., & **Dial, H.**<sup>φ</sup> (2025). Utilization of resting-state electroencephalography spectral power in convolutional neural networks for classification of primary progressive aphasia. *Neuroimage: Reports*, 5, 100242.

Tian, Y., **Dial, H.**, Martin, R., & Fischer-Baum, S. (2025). A shared serial order system for verbal working memory and language production: Evidence from aphasia. *Cognitive Neuropsychology*.

Craik, A., **Dial, H.**<sup>Ω</sup>, & Contreras-Vidal, J.<sup>Ω</sup> (2025). Continuous and discrete decoding of overt speech using electroencephalography. *Journal of Neuroengineering*.  
<https://www.biorxiv.org/content/10.1101/2024.05.23.595510v1>

Grasso, S., Berstis, K., Mendez, K., Keegan-Rodewald, W., Wauters, L., Europa, E., Hubbard, H., **Dial, H.**, Hixon, G., Gorno-Tempini, M.L., Vogel, A., & Henry, M. (2024). Investigating changes in connected speech in nonfluent/agrammatic primary progressive aphasia following script training. *Cortex*, 183, 193-210.

**Dial, H.**, Tessmer, R., & Henry, M. (2024). Speech perception and language comprehension in primary progressive aphasia. *Cortex*, 181, 272-289.

Wauters, L., Croot, K., **Dial, H.**, Europa, E., Grasso, S.M., Mandelli, M.L., Schaffer, K.M. Hubbard, I.H., ... Henry, M.L. (2023). Behavioral treatment for speech and language in primary progressive aphasia and primary progressive apraxia of speech: A systematic review. *Neuropsychology Review*, 34, 882-923.

**Dial, H.**, Europa, E., Grasso, S.M., Mandelli, M.L., Schaffer, K.M. Hubbard, I.H., ... Henry, M.L. (2023). Baseline structural neuroimaging correlates of treatment outcomes in semantic variant primary progressive aphasia. *Cortex*, 158, 158-175.

- Gnanateja, G.N., Devaraju, D.S., Heyne, M., Quique, Y.M., Sitek, K.R., Tardif, M.C., Tessmer, R., & **Dial, H.**<sup>†</sup> (2022). On the role of neural oscillations across timescales in speech and music processing. *Frontiers in Computational Neuroscience*.
- Dial, H.**, Gnanateja, N., Tessmer, R., Gorno-Tempini, M.L., Chandrasekaran, B., & Henry, M.L. (2021). Cortical tracking of the speech envelope in logopenic variant primary progressive aphasia. *Frontiers in Human Neuroscience*.
- Henry, M.L., Hubbard, I., Grasso, S., **Dial, H.**, Beeson, P., Miller, B., & Gorno-Tempini, M.L. (2019). Treatment for word retrieval in semantic and logopenic variants of primary progressive aphasia: Immediate and long-term outcomes. *Journal of Speech, Language and Hearing Research*, 62, 2723-2749.  
[https://doi.org/10.1044/2018\\_JSLHR-L-18-0144](https://doi.org/10.1044/2018_JSLHR-L-18-0144)
- Dial, H.**, McMurray, B., & Martin, R. (2019). Lexical processing depends on sublexical processing: Evidence from the visual world paradigm and aphasia. *Attention, Perception and Psychophysics*, 81, 1047-1064.  
doi: 10.3758/s13414-019-01718-3
- Dial, H.**, Hinshelwood, H., Grasso, S., Hubbard, I., Gorno-Tempini, M.L. & Henry, M.L. (2019). Investigating the utility of teletherapy in individuals with primary progressive aphasia. *Clinical Interventions in Aging*, 14, 453-471.  
doi: 10.2147/CIA.S178878
- Madera, J., Hebl, M., **Dial, H.**, Martin, R., & Valian, V. (2019). Raising doubt in letters of recommendation for academia: Gender differences and their impact. *Journal of Business and Psychology*, 1-17. \*2019 Editor Commendation Award\*  
doi: 10.1007/s10869-018-9541-1
- Fischer-Baum, S., Mis, R., & **Dial, H.** (2018). Word deafness with preserved number word perception. *Cognitive Neuropsychology*, 35, 1-15.  
doi: 10.1080/02643294.2018.1515734
- Dial, H.**, & Martin, R. (2017). Evaluating the relationship between sublexical and lexical processing in speech perception: Evidence from aphasia. *Neuropsychologia*, 96, 192-212.  
doi: 10.1016/j.neuropsychologia.2017.01.009
- McCulloch, K., Lachner-Bass, N. **Dial, H.**, Hiscock, M. & Jansen, B. (2017). Interaction of attention and acoustic factors in dichotic listening for fused words. *Laterality: Asymmetries of Body, Brain and Cognition*, 22, 473-494.  
doi: 10.1080/1357650X.2016.1219361
- Europa, E., **Dial, H.**, Battistella, G., Grasso, S., Hubbard, H.I., Schaffer, K., Wauters, L.,

Welch, A., Mandelli, M.L., Gorno-Tempini, M.L., & Henry, M.L. (in preparation). Baseline MRI measures associated with treatment response in nonfluent/agrammatic variant primary progressive aphasia.

### **BOOK CHAPTERS**

**Dial, H., & Henry, M.L.** (2024). Primary progressive aphasia. In M.L. Kimbarow and S. Wallace (Eds.), *Cognitive Communication Disorders, 4<sup>th</sup> Edition* (pp. 285-317). San Diego, CA: Plural Publishing.

**Dial, H., & Henry, M.L.** (2019). Primary progressive aphasia. In M.L. Kimbarow (Ed.), *Cognitive Communication Disorders, 3<sup>rd</sup> Edition* (pp. 207-236). San Diego, CA: Plural Publishing.

### **SCIENCE OUTREACH**

Quinn, C.\*, **Dial, H.\***, & Thompson, A.\* (October 2024). Communication challenges in Parkinson's disease. *Houston Area Parkinson's Society Newsletter*.

\*All authors contributed equally to this work.

Pugalenthi, L., Berstis, K., Henry, M.L., & **Dial, H.** (2023). Primary progressive aphasia: Gradually losing your ability to communicate. *Frontiers for Young Minds*.

### **PLATFORM PRESENTATIONS/INVITED TALKS**

Henry, M. L., Tessmer, R., Berstis, K., **Dial, H.**, Europa, E., Ezzes, Z., Mandelli, M. L., Millanski, C., Robinaugh, G., Schaffer Mendez, K., Wauters, L. D., Grasso, S. M., & Gorno-Tempini, M. L. (May 2024). Immediate and long-term benefits of restitutive treatment for speech and language in PPA. Clinical Aphasiology Conference, Waikoloa Beach, HI.

**Dial, H.** Sentence context effects on word identification as a function of age and presence of aphasia. (February 2024). Invited presentation at Rice University Psychology Department. Houston, TX.

**Dial, H.**, Pugalenthi, L., Gnanateja, N., Li, J., & Henry, M. (October 2023). Cortical tracking of acoustic and linguistic features in primary progressive aphasia: Emerging findings and methodological considerations. 61<sup>st</sup> Annual Meeting of the Academy of Aphasia, Reading, England.

**Dial, H.** Assessment of speech perception and language comprehension in aphasia using temporal response function modeling. (March 2023). Invited presentation for C-STAR Lecture Series. <https://cstar.sc.edu/lecture-series/>

- Dial, H.** Assessment and intervention in stroke-induced and primary progressive aphasia. (February 2023). Invited presentation for ProSem in Department of Communication Sciences and Disorders at University of Wisconsin-Madison (virtually delivered).
- Henry, M.L., Grasso, S.M., Berstis, K., **Dial, H.R.**, Europa, E.E., Miller, C., ... Gorno-Tempini, M.L. (November 2022). Immediate and long-term benefits of restitutive treatment for speech and language in primary progressive aphasia. Biannual Meeting of the International Society for Frontotemporal Dementias, Lille, France.
- Grasso, S.M., Domenech, L., Berstis, K., **Dial, H.R.**, Europa, E., Faixa Sol, C., ... Henry, M.L. (October 2022). Restitutive interventions in monolingual and bilingual speakers with primary progressive aphasia. 60<sup>th</sup> Annual Meeting of the Academy of Aphasia, Philadelphia, PA.
- Dial, H.**, Tessmer, R., & Henry, M.L. (October 2021). Behavioral assessment of speech perception and language comprehension in primary progressive aphasia. Academy of Aphasia Conference. Virtual conference.
- Dial, H.**, Gnanateja, N., Tessmer, R., Chandrasekaran, B., & Henry, M.L. (May 2021). Cortical tracking of acoustic and linguistic features of continuous speech in primary progressive aphasia. Clinical Aphasiology Conference. Virtual conference.
- Europa, E., Battistella, G., **Dial, H.**, Lauricella, M., Grasso, S., Welch, A., Hubbard, H.I., Mandelli, M.L., Gorno-Tempini, M.L., & Henry, M.L. (May 2021). Neuroimaging predictors of treatment response in nonfluent/agrammatic variant primary progressive aphasia. Clinical Aphasiology Conference. Virtual conference.
- Dial, H.** Neural processes supporting speech perception (November 2020). Invited presentation at Valkyrie AI. Austin, TX.
- Dial, H.**, Gnanateja, N., Tessmer, R., Chandrasekaran, B., & Henry, M.L. (October 2020). Cortical tracking of the speech envelope in logopenic variant primary progressive aphasia. 58<sup>th</sup> Annual Academy of Aphasia Meeting. Virtual conference.
- Henry, M.L., Grasso, S.M., Hubbard, I.H., **Dial, H.**, Europa, E., Welch, A., & Gorno-Tempini, M.L. (November 2018). Immediate and long-term benefits of behavioral intervention in primary progressive aphasia. 11<sup>th</sup> International Conference on Frontotemporal Dementias. Sydney, Australia.
- Dial, H.**, Martin, R., & Schnur, T. (November 2017). Assessing the roles of semantic and phonological short-term memory in language production. 55<sup>th</sup> Annual Academy

of Aphasia Meeting, Baltimore, MD. *Frontiers in Human Neuroscience, Conference Abstract*. doi: 10.3389/conf.fnhum.2017.223.00045

**Dial, H.**, Sathishkumar, M., Hubbard, I., Grasso, S., Gorno-Tempini, M., & Henry, M.L. (June 2017). Gray matter predictors of treatment outcomes in primary progressive aphasia. 47<sup>th</sup> Annual Clinical Aphasiology Conference, Snowbird, UT.

Madera, J., Hebl, M., **Dial, H.**, Martin, R., & Valian, V. (April 2016). Raising doubt in letters of recommendation for academia: Gender differences. 31<sup>st</sup> Annual Conference of the Society for Industrial and Organizational Psychology, Anaheim, CA.

Martin, R., **Dial, H.**, Yue, Q., & Hamilton, A.C. (November 2015). Buffer versus embedded processes approaches to phonological short-term memory. 56<sup>th</sup> Annual Meeting of the Psychonomic Society, Chicago, IL.

**Dial, H.**, & Martin, R. (October 2015). Evaluating proposed dorsal and ventral route functions in speech perception and phonological short-term memory: Evidence from aphasia. 53<sup>rd</sup> Annual Academy of Aphasia Meeting, Tucson, AZ. *Frontiers in Psychology, Conference Abstract*. doi: 10.3389/conf.fpsyg.2015.65.00075

## **POSTER PRESENTATIONS**

<sup>Ω</sup>co-senior author

Bradbury-John, K., Gnanateja, G.N., & **Dial, H.** (October 2025). Test-retest reliability of TRF-derived measures of cortical tracking of speech in individuals with aphasia. Annual Meeting of the Academy of Aphasia, San Diego, California.

Rafferty, M.B., **Dial, H.**, Tessmer, R., & Henry, M. (October 2025). Altered temporal dynamics during syntactic integration in nonfluent variant primary progressive aphasia. Annual Meeting of the Academy of Aphasia, San Diego, California.

Costantini, S., Wauters, L., Miller, C., **Dial, H.**, & Henry, M. (October 2025). Development of speech-based metrics for the assessment of speech and language abilities in primary progressive aphasia. Annual Meeting of the Academy of Aphasia, San Diego, California.

Bonojo, E., Mai, C., Marquez, M., & **Dial, H.** (August 2025). Comparing the outcomes of AI beta tool vs. human translated aphasia friendly research summaries. Tilman J. Fertitta College of Medicine First Annual Student Research Day, Houston, Texas.

*Note: This is work that Esther Bonojo, Christina Mai, and Mike Marquez completed under my guidance for the University of Houston TEACH HOUSTON and STEM RISE programs. Abstracts were peer-reviewed by College of Medicine Faculty. Esther received 3<sup>rd</sup> place in the poster competition at this local conference.*

Bradbury-John, K. E., Olivé, G., Marqués-Kiderle, S., Wagner Rodriguez, C., Rodríguez-Fornells, A., Filella-Mercè, J., Grasso, S. M., Santos-Santos, M. Á., **Dial, H.** (May 2025). Dissociations between semantic and phonological working memory in primary progressive aphasia. Clinical Aphasiology Conference, Albuquerque, New Mexico.

Prasanna, S., **Dial, H.**, Maher, L., Coslett, B., & Harvey, D. (May 2025). Strengthening connections: the impact of semantic association strength on treatment response during CILT. Clinical Aphasiology Conference, Albuquerque, NM.

*Note: This is work that Sudharshini Prasanna conducted under my guidance for her Senior Honors Thesis.*

Gabor, J., **Dial, H.**, Maher, L., Coslett, B., & Harvey, D. (May 2025). Noun and verb accuracy following TMS and constraint-induced language therapy in people with aphasia. Clinical Aphasiology Conference, Albuquerque, NM.

*Note: This is work that Julia Gabor conducted under my guidance for the NSF Research Experiences for Undergraduates (REU) program in Summer 2024. She received 3<sup>rd</sup> place at the 2024 NSF REU Research Symposium, funding her trip to the Clinical Aphasiology Conference.*

BeCoats, B., **Dial, H.**, & Mahler, L. (May 2025). Training graduate student clinicians to lead aphasia conversation groups: Outcomes and feedback. Clinical Aphasiology Conference, Albuquerque, NM.

BeCoats, B., **Dial, H.**, & Maher, L. (December 2024). Preparing graduate student clinicians to lead aphasia conversation groups. ASHA Convention, Seattle, WA.

*Note: Received designation as a Meritorious Poster.*

Volkmer, A., Tessmer, R., **Dial, H.**, Wauters, L. D., Anders, J., Jennings, B., & Henry, M. L. (July 2024). A TeleCPT case study: Acceptability and utility of Better Conversations with Primary Progressive Aphasia for a person with semantic variant PPA and their communication partner. International Aphasia Rehabilitation Conference, Brisbane, Australia.

Pugalenth, L. S., **Dial, H.**, Wauters, L.D., Li, J.J., Schmitz, S., Keller, J., Largent, A., Chang, P., Chang, J., Foil, H., Lester-Smith, R.A, Toprac, P., Hilsabeck, C.R., Henry, M.L. (July 2024). Using image-text similarity scores from picture descriptions for differentiating the logopenic variant of progressive aphasia from amnesic Alzheimer's dementia. Alzheimer's Association International Conference and Technology & Dementia preconference, Philadelphia, PA.

BeCoats, B., Dion, A., Maher, L., & **Dial, H.** (May 2024). Sentence context effects on speech perception. Clinical Aphasiology Conference, Waikoloa Beach, HI.

Bradbury, K., **Dial, H.**<sup>Ω</sup>, & Maher, L.<sup>Ω</sup> (May 2024). The role of error in mapping therapy



- for treatment of constructional agrammatism in chronic aphasia. Clinical Aphasiology Conference, Waikoloa Beach, HI.
- Pugalethi, L., Jain, S., Li, J., **Dial, H.**<sup>Ω</sup>, & Henry, M.<sup>Ω</sup> (May 2024). Application of convolutional neural networks and temporal response function modeling to EEG data for differential diagnosis of primary progressive aphasia. Clinical Aphasiology Conference, Waikoloa Beach, HI.
- Tessmer, R., **Dial, H.**, Wauters, L., Anders, J., Jennings, B., Volkmer, A., & Henry, M. (May 2024). Remotely delivered Better Conversations with Primary Progressive Aphasia for an individual with semantic PPA and their communication partner. Clinical Aphasiology Conference, Waikoloa Beach, HI.
- Europa, E., Gajardo-Vidal, A., Wilson, S.M., Mandelli, M.L., Battistella, G., **Dial, H.**, ... Lorca-Puls, D.L. (October 2023). Neurodegeneration of the left supramarginal gyrus induces compensatory neural changes during phonological decisions. 15<sup>th</sup> Annual Meeting of the Society for the Neurobiology of Language, Marseilles, France.
- Quinn, C., Craik, A., Henry, M., & **Dial, H.** (October 2023). Utilization of resting-state electroencephalography spectral power in convolutional neural networks for classification of primary progressive aphasia. 61<sup>st</sup> Annual Meeting of the Academy of Aphasia, Reading, England.
- Dial, H.**, Pugalethi, L., Li, J., & Henry, M.L. (May 2023). Application of machine learning, natural language processing, and temporal response function modeling for differential diagnosis of primary progressive aphasia. Clinical Aphasiology Conference, Atlantic City, NJ.
- Tessmer, R., Desai, M., Gnanateja, G., **Dial, H.**<sup>Ω</sup>, & Henry, M.L.<sup>Ω</sup> (May 2023). Click-evoked auditory brainstem response in primary progressive aphasia. Clinical Aphasiology Conference, Atlantic City, NJ.
- Wauters, L.D., Robinaugh, G., Berstis, K., **Dial, H.**, Flores, M., Tessmer, R., Schaffer Mendez, K., Millanski, C., & Henry, M.L. (May 2023). The impact of a psychoeducational support group for individuals with primary progressive aphasia and family members: Preliminary results from a mixed methods study. Poster presented at the Clinical Aphasiology Conference, Atlantic City, NJ.
- Craik, A., **Dial, H.**<sup>Ω</sup>, & Contreras-Vidal, J.<sup>Ω</sup> (April 2023). Classification of the linguistic characteristics of overt speech with deep learning. 11th International IEEE Engineering in Medicine and Biomedical Society Conference on Neural Engineering, Baltimore, MD.
- Europa, E., Berstis, K., Ratnasiri, B., Grasso, S., **Dial, H.**, Vogel, A., ... Henry, M.L.

- (October 2022). Longitudinal change in connected speech and language measures in nonfluent/agrammatic variant primary progressive aphasia. 60<sup>th</sup> Annual Meeting of the Academy of Aphasia, Philadelphia, PA.
- Dial, H.**, Pugalenti, L., & Li, J. (October 2022). Test-retest reliability of TRF-derived measures of cortical tracking of speech. 14<sup>th</sup> Annual Meeting of the Society for the Neurobiology of Language, Philadelphia, PA.
- Tessmer, R., Henry, M.L., & **Dial, H.** (July 2022). Developing a remote hearing test for individuals with Alzheimer's Disease and related dementias (ADRD). Alzheimer's Association International Conference, Technology and Dementia Pre-Conference. (Accepted, withdrawn due to covid-related travel concerns).
- Dial, H.**, Gnanateja, N., Pugalenti, L., Tessmer, R., Chandrasekaran, B., Henry, M.L., & Li, J. (January 2022). Cortical tracking of semantic dissimilarity for features derived using static and contextualized embeddings in primary progressive aphasia. 2022 Mid-Winter Meeting of the Association for Research on Otolaryngology. Virtual conference.
- Miller, C., O'Connell, M.K., Berstis, K., Europa, E., Grasso, S., Robinaugh, G., Schaffer, K., Tessmer, R., Wauters, L., Gorno-Tempini, M.L., **Dial, H.**<sup>Ω</sup>, & Henry, M.L.<sup>Ω</sup> (October 2021). Effects of lexical retrieval treatment on written naming in primary progressive aphasia. Academy of Aphasia Virtual conference.
- Dial, H.**, Pugalenti, L., Gnanateja, N., Tessmer, R., Li, J., & Henry, M.L. (September 2021). Contrasting static and contextualized embeddings in the use of semantic feature vectors in neurophysiological prediction. Texas Advanced Computing Center Symposium for Texas Researchers (TACCSTER) 2021. Virtual conference.
- Wauters, L., Ballard, K., Clark, H., Croot, K., **Dial, H.**, Duffy, J., Grasso, S., Kim, E., Kohley, L., Milman, L., Murray, L., Rogalski, E., Schaffer, K., & Henry, M.L. (May 2021). A systematic review of behavioral treatment for PPA/PPAOS: Major trends and future directions. Round table presentation. 50<sup>th</sup> Annual Clinical Aphasiology Conference.(Virtual conferenc).
- Robinaugh, G., Beeson, P., Rising, K., Miller, C., Schmidt, O., Sfeir, N., **Dial, H.**, Gorno-Tempini, M.L., & Henry, M.L. (May 2021). Beyond binary: Quantifying meaningful information in BNT error responses for individuals with PPA before and after naming treatment. 50<sup>th</sup> Annual Clinical Aphasiology Conference. Virtual conference.
- Europa, E., Battistella, G., **Dial, H.**, Lauricella, M., Grasso, S., Welch, A., Hubbard, I., Mandelli, M.L., Gorno-Tempini, M.L., & Henry, M.L. (October 2020). Multimodal MRI correlates of positive treatment outcomes in non-

- fluent/agrammatic primary progressive aphasia. 12<sup>th</sup> Annual Meeting of the Society for the Neurobiology of Language. Virtual conference.
- Zahn, R., **Dial, H.**, Schnur, T., & Martin, R. (October 2020). Semantic working memory supports a phrasal scope of planning in language production: Evidence from acute stroke. 58<sup>th</sup> Annual Academy of Aphasia Meeting. Virtual conference.
- Dial, H.**, Grasso, S., Hubbard, I., Schaffer, K., Wauters, L., Europa, E., Wineholt, L., Gorno-Tempini, M.L., & Henry, M.L. (October 2019). Gray matter predictors of treatment outcomes in semantic variant primary progressive aphasia. 57<sup>th</sup> Annual Academy of Aphasia Meeting, Macau. *Frontiers in Human Neuroscience, Conference Abstract*. doi: 10.3389/conf.fnhum.2019.01.00118
- Tian, Y., **Dial, H.**, Martin, R., & Fischer-Baum, S. (October 2019). A common serial order mechanism for verbal working memory and language production: Evidence from aphasia. 57<sup>th</sup> Annual Academy of Aphasia Meeting, Macau. *Frontiers in Human Neuroscience, Conference Abstract*. doi: 10.3389/conf.fnhum.2019.01.00113
- Dial, H.**, Zinszer, B., Chandrasekaran, B., & Henry, M.L. (October 2018). Neural encoding of phonetic features relates to phonological processing in PPA. 56<sup>th</sup> Annual Academy of Aphasia Meeting, Montreal, Quebec, Canada. *Frontiers in Human Neuroscience, Conference Abstract*. doi: 10.3389/conf.fnhum.2018.228.00017
- Dial, H.**, Zinszer, B., Chandrasekaran, B., & Henry, M.L. (August 2018). Cortical entrainment of continuous speech envelope is preserved in non-fluent PPA. 10<sup>th</sup> Annual Meeting of the Society for the Neurobiology of Language. Quebec City, Quebec, Canada.
- Dial, H.**, Hubbard, I., Grasso, S., Gorno-Tempini, M.L., & Henry, M.L. (May 2018). Developing predictive models of naming performance over time in primary progressive aphasia. 48<sup>th</sup> Annual Clinical Aphasiology Conference. Austin, TX.
- Europa, E., Grasso, S., **Dial, H.**, Yi, H., & Henry, M.L. (May 2018). Effects of script training on neural activity in primary progressive aphasia: A pilot fMRI study. 48<sup>th</sup> Annual Clinical Aphasiology Conference. Austin, TX.
- Dial, H.**, Hubbard, I., Grasso, S., Gorno-Tempini, M.L., & Henry, M.L. (April 2018). Developing predictive models of naming performance over time in primary progressive aphasia. 3<sup>rd</sup> Annual CARE Research Day. Austin, TX.
- Hubbard, I., Grasso, S., **Dial, H.**, Mandelli, M.L., Gorno-Tempini, M.L., & Henry, M.L. (November 2017). Examining gray matter differences in a single treatment non-responder with semantic variant primary progressive aphasia. 9<sup>th</sup> Annual Meeting of the Society for the Neurobiology of Language. Baltimore, MD.

- Dial, H., McMurray, B., & Martin, R.** (September 2017). Evaluating the relationship between sublexical and lexical processing: Evidence from the visual world paradigm. 12<sup>th</sup> Annual Eleanor Saffran Conference for Cognitive Neuroscience. Philadelphia, PA.
- Dial, H., McMurray, B., & Martin, R.** (November 2016). Evaluating the relationship between sublexical and lexical processing: Evidence from the visual world paradigm. 57<sup>th</sup> Annual Meeting of the Psychonomic Society. Boston, MA.
- Dial, H., McMurray, B., & Martin, R.** (October 2016). Lexical processing depends on sublexical processing: Evidence from the visual world paradigm with aphasia. 54<sup>th</sup> Annual Academy of Aphasia Meeting. Llandudno, Wales, UK. *Frontiers in Psychology, Conference Abstract*. doi: 10.3389/conf.fpsyg.2016.68.00086
- Yue, Q., Dial, H., & Martin, R.** (October 2016). Non-perceptual regions in the left supramarginal gyrus support phonological short-term memory: Evidence from lesion-symptom mapping and fMRI studies. 54<sup>th</sup> Annual Academy of Aphasia Meeting. Llandudno, Wales, UK. *Frontiers in Psychology, Conference Abstract*. doi:10.3389/conf.fpsyg.2016.68.00045
- Dial, H., & Martin, R.** (December 2015). Evaluating proposed dorsal and ventral route functions in speech perception and phonological short-term memory: Behavioral and lesion evidence from individuals with aphasia. UT Health Science Center at Houston 22<sup>nd</sup> Annual Neuroscience Poster Session. Houston, TX.
- Dial, H., & Martin, R.** (October 2015). Evaluating proposed dorsal and ventral route functions in speech perception and phonological short-term memory: Evidence from aphasia. 2015 ARMADILLO Southwest Regional Conference on Cognition. Waco, TX.
- Dial, H., Tomkins, B., & Martin, R.** (December 2014). Evaluating dorsal and ventral routes in speech perception and phonological short-term memory: Evidence from aphasia. UT Health Science Center at Houston 21<sup>st</sup> Annual Neuroscience Poster Session. Houston, TX.
- Martin, R., Hamilton, C., Fischer-Baum, S., Lam, A., Dial, H., & Chapman, C.** (December 2014). Improving inhibitory control to improve language processing: A tDCS-augmented treatment study. Mission Connect Neurotrauma Research Symposium. Houston, TX.
- Dial, H., Tomkins, B. & Martin, R.** (October 2014). Shared perceptual processes in phoneme and word perception: Evidence from aphasia. 52<sup>nd</sup> Annual Academy of Aphasia Meeting. Miami Beach, FL. *Frontiers in Psychology, Conference Abstract*. doi:10.3389/conf.fpsyg.2014.64.00054

**Dial, H.,** Hamilton, A.C., Tomkins, B., & Martin, R. (December 2013). Evidence for the separation of speech perception and short-term memory. UT Health Science Center at Houston 20<sup>th</sup> Annual Neuroscience Poster Session. Houston, TX.

**Dial, H.,** & Martin, R. (October 2013). Evaluating semantic STM deficits in aphasia: Overly rapid decay vs. inhibition deficits. 51<sup>st</sup> Annual Academy of Aphasia Meeting. Lucerne, Switzerland. *Procedia-Social and Behavioral Sciences, Conference Abstract*. doi:10.1016/j.sbspro.2013.09.051

McCulloch, K., **Dial, H.,** & Hiscock, M. (June 2012). Frequency-filtering, attention, and phonetic characteristics that influence the right-ear advantage for speech perception. The Annual American Academy of Clinical Neuropsychology meeting. Seattle, WA.

**Dial, H.,** & Hiscock, M. (February 2011). Dichotic listening using frequency-filtered words. International Neuropsychological Symposium. Boston, MA.

#### **GRANTS APPLIED FOR (NOT FUNDED)**

National Aphasia Association	March 2022
“Assessing reliability and validity of temporal response function modeling in stroke-induced aphasia”	
\$10,000	
Role: PI	

Association for Frontotemporal Degeneration	November 2016
Postdoctoral Fellowship	
“Using fNIRS to investigate neural signatures of rehabilitation in primary progressive aphasia”	

#### **HONORS AND AWARDS**

NIDCD Young Investigators Travel Fellowship for Academy of Aphasia	October 2018
\$1200	

Society for the Neurobiology of Language Travel Award	August 2018
\$550 + registration	

NIDCD Fellowship for Research Symposium in Clinical Aphasiology	May 2018
\$1500	

NIDCD Saffran Student Scholar Award	September 2017
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Nominee, Gardner Award for Best Dissertation in the Social Sciences	April 2017
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NIDCD Fellowship for Research Symposium in Clinical Aphasiology \$1500	May 2017
Finalist, Graduate Instructor of the Year Award, Rice University	February 2017
Women in Cognitive Science Travel and Networking Award \$1000	November 2016
Baker College Best Professors 2015-2016	January 2016
1 <sup>st</sup> Prize for Rice Psychology Graduate Students 22 <sup>nd</sup> Annual UT-Health Science Center Neuroscience Poster Session	December 2015
ARMADILLO Regional Conference, 1 <sup>st</sup> Prize Grad Student Presentations	Oct 2015
<i>Cognitive Neuropsychology</i> Student Travel Prize	Oct 2014
Rice University 90 Second Thesis 1 <sup>st</sup> Prize, CLASS	Feb 2014
<i>Cognitive Neuropsychology</i> Student Travel Prize	Oct 2013
Rice University 90 Second Thesis Outstanding Achievement Award, CLASS	May 2013

### **PROFESSIONAL AFFILIATIONS**

Member: Academy of Aphasia, Membership Committee Member (2020-2023)

Member: Women in Cognitive Science, Psychonomic Society, Society for the Neurobiology of Language, Academy of Neurologic Communication Disorders and Sciences

Member: Psi Chi National Honor Society in Psychology (2008-present)

### **TEACHING**

*Instructor.* Advanced Research Methods (COMD 8329), University of Houston, Spring 2024.

*Instructor.* Research and Critical Thinking (COMD 6261), University of Houston, Fall 2023.

*Instructor.* Neuroscience for Communication Disorders (COMD 4333), University of Houston, Fall 2021, Spring 2022, Fall 2022, Spring 2023.

*Instructor.* Introduction to Cognitive Psychology (Psyc 203), Rice University, Summer 2016.

*Instructor.* What is consciousness? First Year Writing Intensive Seminar, Rice University, Spring 2016.

*Instructor.* Memory (Psyc 308), Rice University, Fall 2015.

*Instructor.* Introduction to Psychology (Psyc 101), Rice University, Summer 2015.

*Co-Instructor:* Introduction to Psychology, Rice University, Summer 2013, Summer 2014.

*Co-Instructor:* Contemporary Social Movements, Rice University, Spring 2014, Spring 2015, Spring 2016.

*Co-Instructor:* Memory, Rice University, Summer 2012.

*Lab Instructor:* Introduction to Behavioral Statistics, Rice University, Spring 2013, Fall 2013, and Spring 2015.

### **Guest Lectures / TA**

*Invited Guest Lecture at Rawson-Saunders School.* April 2018.

*Invited Guest Lecture at Rawson-Saunders School.* March 2017.

*Invited Guest Lecture for the Young Owls Leadership Program,* Rice University, June 2015.

*Invited Guest Lecture for the Rice University Alumni Association Classroom Connect: Language, memory and the brain.* Rice University, June 2014.

*Teaching Assistant:* Introduction to Research Methods in Psychology, Rice University, Fall 2014.

*Invited Guest Lecture for the Young Owls Leadership Program,* Rice University, June 2014.

*Teaching Assistant, Section Leader:* Introduction to Cognitive Psychology, Rice University, Fall 2011.

### **UNIVERSITY SERVICES**

*Committee Chair,* Faculty Governance and Advisory Committee, 2023

*Speaker,* Freshman Student Orientation, “Behind Classroom Doors,” 2022

*Panel Member,* Succeed! Workshop Series, Rice University, 2014-2016

*Graduate Student Judge,* Rice Undergraduate Research Symposium, April 2015

*Organizer,* Cog Tea Series, Rice University, 2012-2013 (Faculty Supervisor: Dr. Randi Martin)

*Graduate Student Volunteer,* Undergraduate Research Mixer, Rice University, Fall 2011

*Graduate Student Organizer,* Department Colloquium, Rice University, Fall 2010

*Secretary,* Psi Chi International Honor Society in Psychology, University of Houston, 2009-2010 (Faculty Supervisor: Dr. Richard Kasschau)

### **EXTERNAL SERVICE**

*Ad hoc reviewer:* *Aphasiology*, *Journal of Communication Disorders*, *Cortex*, *AJSLP*, *JSLHR*, *International Journal of Language and Communication Disorders*, *Cognitive*

*and Behavioral Neurology, Psychonomic Bulletin and Review, Frontiers in Psychology, Brain Communications*

Co-organizer, NIDCD Young Investigators Mentorship Committee, Academy of Aphasia, 2022/2023/2024

Program Committee, 2022 Clinical Aphasiology Conference

Mentor, NIDCD Young Investigators, 2021/2022 Meeting of the Academy of Aphasia

Mentor, NIDCD Fellowship for Research Symposium, 2021/2022 Clinical Aphasiology Conference

Invited panel member, NIDCD Young Investigators Mentorship Panel, Academy of Aphasia, 2020/2021/2022

### **RELEVANT EXPERIENCE AND PROGRAMMING**

Working proficiency in SPSS, JMP, MRICron, Psyscope, PsyToolkit, Experiment Builder, R, SPM, Praat, E-Prime, BrainVision Analyzer, MATLAB, Python

Experience using AFNI, ANTs, FSL

Advanced Statistics

Diffusion tensor imaging, resting state fMRI, VBM, VLSM

fNIRS (Workshop at University of Michigan, Ann Arbor-Dr. Ioulia Kovelman)

Houston Aphasia Recovery Center Training on Supported Communication

Intensive Teaching and Writing Workshop (40 hours)

Better Conversations with Primary Progressive Aphasia Training

### **MEDIA COVERAGE**

Inside Higher Education (2018). Help that hurts women (press release). Retrieved from: <https://www.insidehighered.com/news/2018/06/19/study-finds-recommendation-letters-inadvertently-signal-doubt-about-female>

Houston Chronicle (2018). Recommendation letters written for women undermine job applications, Rice and UH research finds (press release). Retrieved from: <https://www.chron.com/local/education/campus-chronicles/article/Doubt-undermines-female-candidates-job-12975661.php>

Phys.Org (2018). Letters of recommendation for women more likely to raise doubts (press release). Retrieved from: <https://phys.org/news/2018-06-letters-women.html>

Futurity (2018). 4 ‘doubt-raisers’ sap recommendation letters for women (press release). Retrieved from: <https://www.futurity.org/letters-of-recommendation-women-jobs-1778842/>

Business Report (2018). Recommendation letters for women undermine job applications, study finds (press release). Retrieved from: <https://www.businessreport.com/article/recommendation-letters-written-women-undermine-job-applications-study-finds>



EurekAlert! (2018). Letters of recommendation for women more likely to raise doubts (press release). Retrieved from: [https://www.eurekalert.org/pub\\_releases/2018-06/rulor060718.php](https://www.eurekalert.org/pub_releases/2018-06/rulor060718.php)

Moneyish (2018). How a letter of recommendation could hurt your chances—especially if you're a woman (press release). Retrieved from: <https://moneyish.com/ish/how-a-letter-of-recommendation-could-hurt-your-chances-especially-if-youre-a-woman/>