

# Emily J. Braun, M.S., CCC-SLP

630.740.5388 ejbraun@bu.edu

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## Education

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**Boston University**, Boston, MA

Doctor of Philosophy, Speech, Language & Hearing Sciences, Expected 2023

Graduate research assistant in the Aphasia Research Laboratory

Advisor: Dr. Swathi Kiran

**Northwestern University**, Evanston, IL

Master of Science, June 2012

Speech, Language, and Learning

Concentration: Speech-Language Pathology

**Northwestern University**, Evanston, IL

Bachelor of Arts, June 2010, *Magna Cum Laude*

Major: Linguistics

Minor: Spanish

Minor: Human Communication Science

## Clinical & Professional Experience

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Research Speech-Language Pathologist

*Shirley Ryan AbilityLab (formerly Rehabilitation Institute of Chicago), Center for Aphasia Research and Treatment, Chicago, IL (March 2015 – August 2018)*

Clinical Speech-Language Pathologist

*Marianjoy Rehabilitation Hospital, Wheaton, IL*

(Full-time staff July 2012 – March 2015)

(Registry staff March 2015 – March 2017)

## Research Experience

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Graduate Research Assistant

*Boston University Aphasia Research Laboratory, Boston, MA (September 2018 – present)*

Lab Rotation in Aphasia and Neurolinguistics Research Laboratory

*Northwestern University, Evanston, IL (September 2010 – December 2010)*

Research Assistant in Child Language Lab

*Northwestern University, Evanston, IL (January 2009 – February 2010)*

Independent Study in Bilingualism and Psycholinguistics Research Group

*Northwestern University Evanston, IL (January 2008– June 2008)*

## Awards & Scholarships

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**ASHA Pathways Program**

*June 2021 – June 2022*

Mentorship program for early-career clinical scientists

**ASHA Award for Continuing Education (ACE)**

*August 2016, August 2018*

Awarded for completing 70 hours of continuing education in a 36-month period

**Sembler Scholarship**, Northwestern University

*May 2011*

Awarded for academic excellence

**Abraham Demoz Prize in Linguistics, Northwestern University** June 2009  
Awarded for outstanding undergraduate work in linguistics

**Phi Beta Kappa Honor Society, Alpha Chapter, Northwestern University** June 2009  
Academic honor society for liberal arts and sciences

### **Research Funding** (funded)

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Sargent College Student Research Grant, *Boston University* May 2022 – May 2023  
*Behavioral and Neural Examination of Spoken Discourse Production in Individuals with Aphasia* (\$5,000)

Academy of Aphasia Young Investigator Travel Fellowship October 2021  
*NIDCD-sponsored funding for conference presentation expenses*

NIH/NIDCD Traineeship T32DC013017 (PI: Christopher Moore) 2018 – 2020  
*Advanced research training in communication sciences and disorders*

### **Research Funding** (not funded)

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F31 Ruth L. Kirschstein Predoctoral Individual National Research Service Award  
*Behavioral and Neural Examination of Stimulus Conditions for Conversational Script Training in Individuals with Aphasia*  
Submitted: December 2021 (Impact Score: 40)  
Resubmitted: April 2022 (Impact Score: 41)

### **Publications**

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1. **Braun, E. J.** & Kiran, S. (2022). Stimulus- and person-level variables influence word production and response to semantically-based anomia treatment for individuals with chronic post-stroke aphasia. *Journal of Speech, Language, and Hearing Research*, 65, 3854-3872. DOI: [10.1044/2022.JSLHR-21-00527](https://doi.org/10.1044/2022.JSLHR-21-00527)
2. **Braun, E. J.**, Billot, A., Meier, E., Pan, Y., Parrish, T. B., Kurani, A. S., & Kiran, S. (2022). White matter microstructural integrity pre- and post-treatment in individuals with chronic post-stroke aphasia. *Brain and Language*, 232, 105163. DOI: [10.1016/j.bandl.2022.105163](https://doi.org/10.1016/j.bandl.2022.105163)
3. Billot, A., Lai, S., Varkanitsa, M., **Braun, E. J.**, Rapp, B., Parrish, T. B., Higgins, J., Kurani, A. S., Caplan, D., Thompson, C. K., Ishwar, P., Betke, M., & Kiran, S. Multimodal neural and behavioral data predict response to rehabilitation in chronic post-stroke aphasia (2022). *Stroke*, 53, 1606-1614. DOI: [10.1161/STROKEAHA.121.036749](https://doi.org/10.1161/STROKEAHA.121.036749)
4. Dekhtyar, M., **Braun, E. J.**, Billot, A., Foo, L., & Kiran, S. Videoconference administration of the Western Aphasia Battery – Revised: Feasibility and Validity (2020). *American Journal of Speech-Language Pathology*, 29, 673-687. DOI: [10.1044/2019.AJSLP-19-00023](https://doi.org/10.1044/2019.AJSLP-19-00023)
5. Conlon, E. L., **Braun, E. J.**, Babbitt, E. M., & Cherney L. R. (2020). Treatment fidelity procedures for an aphasia intervention within a randomized controlled trial: Design, Feasibility and Results. *American Journal of Speech-Language Pathology*, 29, 412-424. DOI: [10.1044/2019.AJSLP-CAC48-18-0227](https://doi.org/10.1044/2019.AJSLP-CAC48-18-0227)
6. Cherney, L. R., **Braun, E. J.**, Lee, J. B., Kocherginsky, M., & van Vuuren, S. (2019). Optimizing recovery in aphasia: Learning following exposure to a single dose of computer-based script training. *International Journal of Speech-Language Pathology*, 21, 448-458. DOI: [10.1080/17549507.2019.1661518](https://doi.org/10.1080/17549507.2019.1661518)

## Conference Proceedings

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1. Lai, S., Billot, A., Varkanitsa, M., **Braun, E. J.**, Rapp, B., Parrish T. B., Kurani, A. S., Higgins, J., Caplan, D., Thompson, C. K., Kiran, S., Betke, M., & Ishwar, P. (2021, June). An exploration of machine learning methods for predicting post-stroke aphasia recovery. Paper presented at PETRA '21: The 13<sup>th</sup> Pervasive Technologies Related to Assistive Environments Conference (PETRA), Corfu, Greece. DOI: [10.1145/3453892.3461319](https://doi.org/10.1145/3453892.3461319)
2. Gu, Y., Bahrani, M., Billot, A., Lai, S., **Braun, E. J.**, Varkanitsa, M., Bighetto, J., Rapp, B., Parrish, T. B., Caplan, D., Thompson, C. K., Kiran, S., & Betke, M. (2020, June). A machine learning approach for predicting post-stroke aphasia recovery: A pilot study. Paper presented at PETRA '20: The 13<sup>th</sup> Pervasive Technologies Related to Assistive Environments Conference (PETRA), Virtual. DOI: [10.1145/3389189.3389204](https://doi.org/10.1145/3389189.3389204)

## Book Chapter

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1. Gilmore, N.<sup>1</sup>, **Braun, E. J.**<sup>1</sup>, & Kiran, S. (2022). Neurology, Connectivity and Aphasia. In Papathanasiou & Coppens (Eds.), *Aphasia and Related Neurogenic Communication Disorders*. Burlington, MA: Jones & Bartlett Learning.

## Conference Presentations (\*presenting author)

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1. **Braun, E. J.**<sup>\*</sup>, Carpenter, E., Gao, Y., Cronin-Golomb, A., Ellis, T., Somers, D. C., von Lümann, A., Yücel, M. A., Boas, D. A., & Kiran, S. (2022, October). Neuroscience in the everyday world: Brain correlates of naturalistic discourse in individuals with aphasia. Poster presented at the Society for functional near-infrared spectroscopy fNIRS 2022 Conference, Boston, MA.
2. Anderson, J. A., Rogers, D., Gao, Y., Farzam, P., Beeler, D., **Braun, E. J.**, Butler, L., Carpenter, E., Giris, J., Kaplan, R., Mukadam, N., Tripathi, V., Wilson, J., Somers, D. C., Cronin-Golomb, A., Kiran, S., Ellis, T. D., Boas, D. A., Yücel, M. A. (2022, October). Quantification of the diverse effect of hair and skin properties on fNIRS signal quality. Poster presented at the society for functional Near-infrared spectroscopy fNIRS 2022 Conference, Boston, MA.
3. Carpenter, E., **Braun E. J.**, Marte, M. J., Scimeca, M., Yücel, M. A., Boas, D. A., & Kiran, S. (2022, October). Neuroscience in the everyday world: Cortical activation during computer-based conversation tasks using integrated fNIRS-EEG. Poster presented at the Society for the Neurobiology of Language 2022 Annual Meeting, Philadelphia, PA.
4. Dekhtyar, M., Mukadam, N., **Braun, E. J.**, Zheng, H., Genovese, A., & Kiran, S. (2021, November). C.H.A.T.: Communication through Health, Art and Technology: A support group for individuals with aphasia. One-hour talk at the Convention of the American Speech-Language-Hearing Association, Washington, D.C.
5. **Braun, E. J.**<sup>\*</sup> & Kiran, S. (2021, October). Influence of stimulus- and patient-level factors on naming treatment outcomes in individuals with aphasia. 20-minute platform presentation at the 59<sup>th</sup> Annual Academy of Aphasia Meeting, Virtual.
6. **Braun, E. J.**<sup>\*</sup>, Gao, Y., Carpenter, E., Marte, M. J., Scimeca, M., Abdollahi, F., Yücel, M. A., Boas, D. B., & Kiran, S. (2021, October). Use of fNIRS to investigate cortical activation for conversational responses and narrative discourse. Poster presented at the Society for functional near-infrared spectroscopy fNIRS 2021 Conference, Virtual.

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<sup>1</sup>Co-first authors

7. **Braun, E. J.\*** & Kiran, S. (2021, October). Influence of item- and individual-level semantic and phonological characteristics on word production in individuals with aphasia. Five-Minute Slide Slam presentation at the Society for the Neurobiology of Language 2021 Annual Meeting, Virtual.
8. Billot, A., Lai, S., Varkanitsa, M., **Braun, E. J.**, Rapp, B., Parrish, T., Kurani, A. S., Higgins, J., Caplan, D., Thompson, C. K., Ishwar, P., Betke, M., & Kiran, S. (2021, March). Prediction of treatment-related language recovery in post-stroke aphasia from neuroimaging and behavioral data. Poster presented at Cognitive Neuroscience Society 2021 Annual Meeting, Virtual.
9. Billot, A., Lai, S., Varkanitsa, M., **Braun, E. J.**, Gu, Y., Bahrani, M., Bighetto, J., Rapp, B., Parrish, T. B., Caplan, D., Thompson, C. K., Betke, M., & Kiran, S. (2020, October). Predicting post-stroke aphasia recovery from multimodal neuroimaging data. Oral presentation at the 11<sup>th</sup> World Congress for Neurorehabilitation, Virtual.
10. **Braun, E. J.\***, Billot, A., Kurani, A. S., Parrish, T. B., & Kiran, S. (2020, May). The relationship between white matter structural integrity and language performance in individuals with aphasia. Poster presented at the Cognitive Neuroscience Society 2020 Annual Meeting, Virtual.  
*Virtual poster presentation:* [https://www.youtube.com/watch?v=n2xsHCs\\_prE&t=5s](https://www.youtube.com/watch?v=n2xsHCs_prE&t=5s)
11. **Braun, E. J.\***, Dekhtyar, M., Foo, L., Billot, A., & Kiran, S. (2019, November). Tele-assessment with the Western Aphasia Battery – Revised in adults with aphasia. One-hour talk presented at the Convention of the American Speech-Language-Hearing Association, Orlando, FL.
12. Dekhtyar, M., **Braun, E. J.**, Foo, L., & Kiran, S. (2019, May). Validating the Western Aphasia Battery – Revised through tele-assessment for individuals with aphasia. Talk presented at the 1<sup>st</sup> International Conference on Teleneurorehabilitation, Crotona, Italy.
13. Dekhtyar, M., **Braun, E. J.**, Foo, L., Kiran, S. (2019, May). Validating the Western Aphasia Battery – Revised through tele-assessment for individuals with aphasia. Poster presented at the 49<sup>th</sup> Annual Clinical Aphasiology Conference, Whitefish, Montana.
14. Conlon, E. L., **Braun, E. J.**, Babbitt, E. M., & Cherney, L. R. (2018, June). Treatment Fidelity Procedures within a Randomized Controlled Trial: Design, Feasibility and Results. Poster presented at the 48<sup>th</sup> Annual Clinical Aphasiology Conference, Austin, TX.
15. **Braun, E. J.\***, Hurwitz, R., Kocherginsky, M., van Vuuren, S., & Cherney, L. R. (2017, June). Outcomes following computer-based script training in aphasia: Assessing generalization to conversation and maintenance. Poster presented at the 47<sup>th</sup> Annual Clinical Aphasiology Conference, Snowbird, UT.
16. **Braun, E. J.**, Babbitt, E. M., Larkin, E., & Cherney, L. R. (2017, March). A training module for developing proficiency in aphasia group facilitation. Poster presented at the Leadership Summit of Aphasia Access, Orlando, FL.
17. **Braun, E. J.**, Kaye, R. C., & Cherney, L. R. (2017, March). Annual Aphasia Day: Lessons learned. Poster presented at the Leadership Summit of Aphasia Access, Orlando, FL.
18. **Braun, E. J.\***, Lee, J. B., Kocherginsky, M., Fernandes, H., Hurwitz, R. C., Kording, K. P., van Vuuren, S., & Cherney, L. R. (2016, November). Script acquisition and maintenance in aphasia: The impact of one and two doses of treatment. Poster presented at the Convention of the American Speech-Language-Hearing Association, Philadelphia, PA.

19. Lee, J. B., **Braun, E. J.\***, Fernandes, H., Hurwitz, R. C., Kording, K. P., van Vuuren, S., & Cherney, L. R. (2016, May). Learning in aphasia: The impact of a rest break during treatment. Poster presented at the 46<sup>th</sup> Annual Clinical Aphasiology Conference, Charlottesville, VA.
20. Brady, S. L., Suiter, D., Armour, M., Birkinbine, S., Manypenny, C., Stambolis, V., **Braun, E.**, & Leder, S. (2016, February). Yale Swallow Protocol with rehabilitation patients: Fourteen days of successful oral alimentation. Poster presented at the 24<sup>th</sup> Annual Meeting of the Dysphagia Research Society, Tucson, AZ.
21. Brady, S. L., Suiter, D. M., Stambolis, V., Birkinbine, S., Armour, M., **Braun, E. J.**, & Leder, S. B. (2015, March). Fourteen days of successful oral alimentation for rehabilitation patients based upon passing the Yale Swallow Protocol: Preliminary results. Poster presented at the 23<sup>rd</sup> Annual Meeting of the Dysphagia Research Society, Chicago, IL.

## Other Communications

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1. Interview for care.com article (2022, May). [“What is aphasia? Here’s what seniors and caregivers should know.”](#)
2. **Braun, E. J.**, Dekhtyar, M., & Kiran, S. (2020, November). [Developing a Tele-Assessment Protocol for Individuals with Aphasia](#). Blog post for Academy of Neurologic Communication Disorders and Sciences.
3. Eichstadt, T., Dekhtyar, M., & **Braun, E. J.** (2020, June). [Western Aphasia Battery – Revised \(WAB-R\): Telepractice Guidelines](#). Special guest in webinar presented by Pearson.

## Teaching & Mentorship

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Guest lecturer, SH531 (undergraduate level) “Evidence-Based Practice and Research in Speech, Language, and Hearing Sciences” <i>Department of Speech, Language &amp; Hearing Sciences, Boston University</i>	<i>September 2022</i>
Mentor for undergraduate research assistants <i>Aphasia Research Laboratory, Boston University</i>	<i>2018 – present</i>
Mentor for Undergraduate Research Opportunities Program (UROP) <i>Aphasia Research Laboratory, Boston University</i>	<i>June - August 2022</i>
Continuing education course instructor <a href="#">“Incorporating principles of neuroplasticity into aphasia treatment design”</a> <i>One-hour course for speech-language pathologists presented at TherapyInsights</i>	<i>February 2021</i>
Tutorial instructor “Strategies for Supported Conversation for Individuals with Aphasia” <i>Aphasia Research Laboratory, Boston University</i>	<i>October 2019 June 2021</i>
Guest clinical supervisor for SLP master’s student clinicians Intensive Cognitive and Communication Rehabilitation (ICCR) program <i>Aphasia Research Laboratory, Boston University</i>	<i>July 2021</i>
Mentor for undergraduate volunteers <i>CHAT Group (aphasia support group)</i> <i>Aphasia Research Laboratory, Boston University</i>	<i>March - June 2019</i>
Mentor for undergraduate research assistants and master’s student interns <i>Center for Aphasia Research and Treatment, Shirley Ryan AbilityLab</i>	<i>2015 - 2018</i>

## Languages

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Intermediate Spanish proficiency

## Professional Certifications

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Certificate of Clinical Competence in Speech-Language Pathology	2013 – present
Licensed Speech-Language Pathologist, Massachusetts	2018 - present
Licensed Speech-Language Pathologist, Illinois	2012 – present

## Professional Service Activities

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American Congress of Rehabilitation Medicine  
*Stroke ISIG Aphasia & Other Communication Disorders Task Force*  
*Co-chair (Fall 2021 – present)*  
*Member (2019 – present)*

Speech, Language & Hearing Sciences Colloquium Series organizer (*Spring 2021 – Spring 2022*)

Conference abstract reviewer  
*SfNIRS Conference 2021, 2022*

Ad hoc journal reviewer (under the direction of doctoral program mentor)  
*Neuroimage: Clinical*  
*Neurorehabilitation and Neural Repair*  
*International Journal of Language & Communication Disorders*

## Volunteer Activities

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Tutoring Chicago <i>Volunteer Tutor</i>	<i>January 2016 – May 2018</i>
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## Professional Affiliations

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Member, American Speech-Language-Hearing Association	2012 – present
Affiliate, ASHA SIG 2 – Neurogenic Communication Disorders	2014 – present
Affiliate, ASHA SIG 14 – Cultural and Linguistic Diversity	2015 – present
Member, the Society for functional Near Infrared Spectroscopy	2021 - present
Member, Society for the Neurobiology of Language	2020 – 2021
Member, Cognitive Neuroscience Society	2020 – 2021
Member, Aphasia Access	2016 – 2018