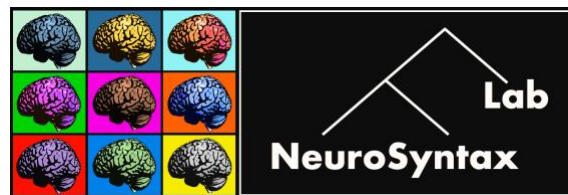


William Matchin, Ph.D.

Curriculum Vitae

Email: matchin@mailbox.sc.eduWebsite: www.neurosyntaxlab.org

Current Appointment

Associate Professor (with tenure)
Director, NeuroSyntax LabDepartment of Communication Sciences & Disorders
Arnold School of Public Health
University of South Carolina

Editor & Conference Organizing Positions

Program Chair (Elect, Present, Past), Society for the Neurobiology of Language
2023 – 2025*Chief Editor, JoCNForum*
2024 – present*Consulting Editor, Journal of Cognitive Neuroscience*
2020 – present*Associate Editor, Frontiers in Language Science, Neurobiology of Language Section*
2022-2024

Education

Ph.D Cognitive Neuroscience	Dept. of Cognitive Sciences University of California, Irvine	2009-2014
B.A. Psychology Minor in Linguistics	University of California, Irvine <i>Magna Cum Laude</i> <i>Phi Beta Kappa</i>	2005-2009

Research Interests

Syntax, sentence processing, psycholinguistics, neurolinguistics, fMRI, aphasia, lesion-symptom mapping.

The NeuroSyntax Lab works to bridge the gaps between linguistics, neuroscience, and aphasia, particularly with respect to syntax.

Dissertation

Title:	<i>Investigations of the syntax-brain relationship</i>
Supervisors:	Prof. Gregory Hickok (Chair) Prof. Jon Sprouse (Co-Chair)

Past Appointments

Assistant Professor	Department of Communication Sciences & Disorders, Arnold School of Public Health University of South Carolina	2018-2025
Postdoctoral Associate	Depts. of Linguistics and Radiology University of California, San Diego Prof. Rachel Mayberry	2016-2018

Postdoctoral Fellow	Prof. Eric Halgren Dept. of Linguistics University of Maryland, College Park Prof. Ellen Lau	2014-2016
Graduate Student Researcher	Dept. of Cognitive Sciences University of California, Irvine Prof. Gregory Hickok	2009-2014
Undergraduate Research Assistant	Dept. of Cognitive Sciences University of California, Irvine Prof. Gregory Hickok	2007-2014

Grant funding – Current

NIH R01 DC023216. *The Cortical Organization of Syntax: Insights into Grammatical Deficits in Aphasia*. **Role: Primary Investigator/PI**. Total award \$2,466,337. Duration: 2026-2031. Submitted November 2025.

NIH P50 DC014664. *Center for the Study of Aphasia Recovery*. **Role: Co-Investigator/Co-I** (PI: Julius Fridriksson). Total award \$12.5 million. Duration: 2021-2026. Submitted February 2020.

Grant funding – Completed

USC ASPIRE. *Functional neuroimaging of syntax using a novel training protocol*. **Role: Principle Investigator**. Total Award: \$15,000. Duration 2023-2025. Submitted February 2023.

USC Honors College Research Grant *Evaluating the neurobiological basis of semantic processing in people with aphasia using a test of event-related conceptual-semantic knowledge*. **Role: Mentor** (Mentee: Ryan Dixon). Total Award: \$1500. Duration 2024-2025. Submitted November 2025.

USC Honors College Research Grant *Functional neuroimaging of syntax vs. semantics using a novel training protocol*. **Role: Mentor** (Mentee: Cecilia Cherico). Total Award: \$1500. Duration 2023-2024. Submitted February 2023.

USC Magellan Scholar's Award. *Morphosyntactic Generation (MorGen) Task*. **Role: Mentor** (Mentee: Sarah Germany). Total Award: \$3000. Duration 2023-2024. Submitted February 2023.

USC Magellan Scholar's Award. *Evaluating Morpho-Syntactic Aspects of the Neural Working Memory Circuit*. **Role: Mentor** (Mentee: Emily Wood). Total Award: \$3000. Duration 2019-2020. Submitted February 2019.

USC Magellan Apprentice Award. *SyRen (Syntactic Recognition)*. **Role: Mentor** (Mentee: Hannah Grim). Total Award: \$1000. Duration 2019-2020. Submitted October 2019.

USC Magellan Mini-grant. *SyRen (Syntactic Recognition)*. **Role: Mentor** (Mentee: Hannah Grim). Total Award: \$500. Duration 2019-2020. Submitted October 2019.

Grant funding – Pending

Grant funding – Not Awarded

NSF-SBE/BCS. *Evaluating the syntax-semantics distinction in the brain with lesion-symptom*

- mapping. Role: Principle Investigator.* Panel Recommendation: Competitive. June 2024.
- NIH R01. *The Cortical Organization of Syntax: Insights into Grammatical Deficits in Aphasia. Role: Principle Investigator.* Score: 40th percentile. Submitted February 2025.
- NIH R01. *The Cortical Organization of Syntax: Insights into Grammatical Deficits in Aphasia. Role: Principal Investigator.* Score: 32nd percentile. Re-submitted March 2024
- NIH R01. *Topological Modeling of Brain Networks in Post-stroke Aphasia. Role: Co-Investigator* (PI: Yuan Wang). Submitted June 2024.
- NIH R01. *Innovating Lesion Symptom Mapping and Treatment Outcome Prediction in Post-Stroke Aphasia. Role: Co-Investigator* (PI: Yuan Wang). Submitted October 2023.
- USC Research Institutes Funding Program. *Carolina Literacy Learning and Advancement Institute (CaLLA Institute). Role: Co-Investigator* (PIs Suzanne Adlof and Lisa Fitton). Submitted November 2022.
- NIH R01. *The Cortical Organization of Syntax: Insights into Grammatical Deficits in Aphasia. Role: Principal Investigator.* Score: 52nd percentile. Submitted October 2022
- NIH R01. *Neural and behavioral predictors of response to syntactic treatment in aphasia. Role: Co-Investigator* (PI: Dirk den Ouden). Submitted October 2022.
- NAA Barbara Martin Aphasia Research Grant. *Video Description for the Assessment of Paragrammatism and Agrammatism. Role: Principal Investigator.* Submitted April 2022.
- NIH R21. *Neurological bases of syntactic comprehension. Role: Principal Investigator.* Submitted October 2021.
- NIH F32. *The Neurobiology of Grammatical Processing: Multilingual Insights. Role: Mentor* (Mentee: Danielle Fahey). Submitted April 2021.
- NIH R21. *Neurological bases of syntactic comprehension. Role: Principal Investigator.* Submitted February 2021

Journal Articles

Underline indicates student and/or postdoctoral trainee author. Publications listed in reverse chronological order: most recent publications first.

42. Vandergriff, C., Neils-Strunjas, J., Bonilha, H.S., **Matchin, W.**, Desai, R.H., Newman-Norlund, S., Riccardi, N., Bonilha, L., Fridriksson, J. (in review). Malleable and Fixed Contributors to Adult Word Reading: Ecological, Psychological, and Cognitive Predictors Across the Lifespan.
41. Dixon, R., den Ouden, D., Desai, R., Decker, S., Bonilha, L., Fridriksson, J., **Matchin, W.** (in review). Prefrontal contributions to non-linguistic semantic cognition revealed by connectome-based lesion-symptom mapping and atlas-based tractography.
40. Hammond, L., Newman-Norlund, R., **Matchin, W.**, Hogan, A., den Ouden, D. (in review). Effective Gesture Use in Functional Communication for Persons with Aphasia: A Scoping Review.
39. Khoshhal Mollasaraei, Z., Stark, B. C., Den Ouden, D., Fridriksson, J., Hickok, G. & **Matchin, W.** (in review). Assessing Agrammatic Speech: Insights from Perceptual Ratings, Statistical Metrics, and Lesion-Symptom Mapping.
38. *Yeaton, J., *Fahey, D., Stark, B.C., Fridriksson, J., Hickok, G., & **Matchin, W.** (in press). Hierarchical and linear syntactic deficits doubly dissociate in post-stroke aphasia. *Journal of Cognitive Neuroscience*.
*This is a joint first-author publication.
37. Yeaton, J., Walker, G.M., Fahey, D., **Matchin, W.**, Fridriksson, J., & Hickok, G. (2026). From structure to sequence: a Multinomial Processing Tree model of syntactic encoding. *Psychonomic Bulletin and Review*, 33, 200. <https://doi.org/10.3758/s13423-026-02958-9>

36. Hammond, L., Johnson, L., Basilakos, A., **Matchin, W.**, Hogan, A., Newman-Norlund, R., Fridriksson, J., & den Ouden, D. (2026). Social Network Composition Influences Chronic Post-Stroke Aphasia Recovery. *Aphasiology*, 1-22. <https://doi.org/10.1080/02687038.2026.2618714>
35. Shehrzad, N., Newman-Norlund, R., Absher, J., Bonilha, L., Rorden, C., Yeaton, J., **Matchin, W.**, Hickok, G., Fridriksson, J., Kristinsson, S. (*2025). Lesion-Symptom Mapping of Acute Speech Deficits After Left vs. Right Hemisphere Stroke: A Retrospective Analysis of NIHSS Best Language Scores and Clinical Neuroimaging. *Brain Sciences*, 15(12), 1329. <https://doi.org/10.3390/brainsci15121329>
*Originally published 2025; currently awaiting authorship corrigendum for Yeaton, Matchin, and Hickok requested 2026
34. Khoshhal Mollasaraei, Z., Fridriksson, J., Den Ouden, D., Hickok, G. & **Matchin, W.** (2025). A Review of Sentence Elicitation Techniques for Assessing Grammatical Deficits in Aphasia. *Aphasiology*, 1-25. <https://doi.org/10.1080/02687038.2025.2570803>
33. Friedman, L., **Matchin, W.**, Berry-Kravis, E., Klusek, J. (2026). Semantic and Syntactic Language Differences in Women with the FMR1 Premutation. *Journal of Neurolinguistics*, 77, 101287. <https://doi.org/10.1016/j.jneuroling.2025.101287>
32. Riccardi, N., Teghipco, A., Rangus, I., Somani, S., Newman-Norlund, S., Newman-Norlund, R., Rorden, C., Fridriksson, J., Bonilha, L., & **Matchin, W.** (2025). Temporoparietal brain structure and function mediates sentence processing decline across the lifespan. *Imaging Neuroscience*, 3 IMAG.a.1009. <https://doi.org/10.1162/IMAG.a.1009>
31. **Matchin, W.**, Almeida, D., Hickok, G., & Sprouse, J. (2024). Cortical networks responsive to phrase structure and subject island violations. *Journal of Cognitive Neuroscience*, 37(2), 414-442. https://doi.org/10.1162/jocn_a_02266
30. **Matchin, W.**, Khoshhal Mollasaraei, Z., Bonilha, L., Rorden, C., Hickok, G., den Ouden, D., Fridriksson, J. (2024). Verbal working memory and syntactic comprehension segregate into the dorsal and ventral streams, respectively. *Brain Communications*. 6(6), fcae449. <https://doi.org/10.1093/braincomms/fcae449>.
29. **Matchin, W.**, Li, J., Zaccarella, E., & Mancini, S. (2024). Editorial: Syntax, the brain, and linguistic theory: a critical reassessment. *Frontiers in Language Sciences*, 3: 1441948. <https://doi.org/10.3389/flang.2024.1441948>
28. Fahey, D., Fridriksson, J., Hickok, G., **Matchin, W.** (2024). Localizing syntactic comprehension through syntactic acceptability judgments & lesion symptom mapping. *Journal of Cognitive Neuroscience*, 36(6), 1141–1155. https://doi.org/10.1162/jocn_a_02134
27. **Matchin, W.**, Basilakos, A., Stark, B., den Ouden, D. B., Fridriksson, J., & Hickok, G. (2023). Grammatical parallelism in aphasia: a lesion-symptom mapping study. *Neurobiology of Language*, 4(4), 550-574. https://doi.org/10.1162/nol_a_00117
26. **Matchin, W.** (2023). Lexico-semantics obscures lexical syntax. *Frontiers in Language Sciences*, 2:1217837. <https://doi.org/10.3389/flang.2023.1217837>.
25. Stockbridge, M. D., **Matchin, W.**, DeLuque, E., Sharif, M., Fridriksson, J., Faria, A. V., & Hillis, A. E. (2023). Mary has a little chair: Eliciting noun-modifier phrases in individuals with acute post-stroke aphasia. *Aphasiology*, 10.1080/02687038.2023.2233739.
24. **Matchin, W.**, den Ouden, D. B., Hickok, G., Hillis, A. E., Bonilha, L., & Fridriksson, J. (2023). Reply: The Wernicke conundrum is misinterpreted. *Brain*, awac483, <https://doi.org/10.1093/brain/awac483>.
23. **Matchin, W.**, den Ouden, D. B., Hickok, G., Hillis, A. E., Bonilha, L., & Fridriksson, J. (2022). The Wernicke conundrum revisited: evidence from connectome-based lesion-symptom mapping in post-stroke aphasia. *Brain*. <https://doi.org/10.1093/brain/awac219>
22. **Matchin, W.**, Basilakos, A., Stark, B. C., Den Ouden, D., Fridriksson, J., & Hickok, G.

- (2022). Functional differentiation in the language network revealed by lesion-symptom mapping. *NeuroImage*, 247, 1-12. <https://doi.org/10.1016/j.neuroimage.2021.118778>
21. **Matchin, W.**, Ilkbasaran, D., Hatrak, M., Roth, A., Villwock, A., Halgren, E., & Mayberry, R. I. (2022). The cortical organization of syntactic processing is supramodal: Evidence from American Sign Language. *Journal of Cognitive Neuroscience*, 34(2), 224-235. https://doi.org/10.1162/jocn_a_01790
 20. **Stockbridge, M. D., Matchin, W.**, Walker, A., Breining, B. L., Fridriksson, J., Hillis, A. E., & Hickok, G. (2021). One cat, Two cats, Red cat, Blue cats: Eliciting morphemes from individuals with primary progressive aphasia. *Aphasiology*, 35(12), 1-12. <https://doi.org/10.1080/02687038.2020.1852167>
 19. **Stockbridge, M. D., Walker, A., Matchin, W.**, Breining, B. L., Fridriksson, J., Hillis, A. E., & Hickok, G. (2021). A double dissociation between plural and possessive “s”: Evidence from the Morphosyntactic Generation test. *Cognitive Neuropsychology*, 38(1), 1-8. <https://doi.org/10.1080/02643294.2020.1833851>
 18. **Matchin, W.**, & **Wood, E.** (2020). Syntax-sensitive regions of the posterior inferior frontal gyrus and the posterior temporal lobe are differentially recruited by production and perception. *Cerebral Cortex Communications*, 1, 1-12. <https://doi.org/10.1093/texcom/tgaa029>
 17. **Matchin, W.**, **Basilakos, A.**, Stark, B. C., Den Ouden, D., Fridriksson, J., & Hickok, G. (2020). Agrammatism and paragrammatism: a cortical double dissociation. *Neurobiology of Language*, 1(2), 1-18. https://doi.org/10.1162/nol_a_00010
 16. **Matchin, W.** & Hickok, G. (2020). The cortical organization of syntax. *Cerebral Cortex*, 30(3), 1481-1498. <https://doi.org/10.1093/cercor/bhz180>
 15. **Matchin, W.**, **Liao, C.**, **Gaston, P.**, & Lau, E.F. (2019). Same words, different structures: an fMRI investigation of argument relations and the angular gyrus. *Neuropsychologia*, 125, 116-128. <https://doi.org/10.1016/j.neuropsychologia.2019.01.019>
 14. **Matchin, W.**, Brodbeck, C., **Hammerly, C.**, & Lau, E.F. (2019). The temporal dynamics of structure and content in sentence processing: Evidence from fMRI-constrained MEG. *Human Brain Mapping*, 40(2), 663-678. <https://doi.org/10.1002/hbm.24403>
 13. Hickok, G., Rogalsky, R., **Matchin, W.**, Basilakos, A., Cai, J., Pillay, S., Ferrill, M., Love, T., Binder, J., Fridriksson, J. (2018). Neural Networks Supporting Audiovisual Integration for Speech: A Large-Scale Lesion Study. *Cortex*, 103, 360-371. <https://doi.org/10.1016/j.cortex.2018.03.030>
 12. Okada, K.*, **Matchin, W.***, & Hickok, G. (2018). Phonological feature repetition-suppression in the left inferior frontal gyrus. *Journal of Cognitive Neuroscience*, 30(10), 1549-1557. *This is a joint first-author publication. https://doi.org/10.1162/jocn_a_01287
 11. **Matchin, W.** (2018*). A neuronal retuning hypothesis of sentence-specificity in Broca's area. *Psychonomic Bulletin & Review*, 25(5), 1682-1694. <https://doi.org/10.3758/s13423-017-1377-6> *published 2017, but appears in 2018 volume
 10. **Matchin, W.**, **Hammerly, C.**, & Lau, E.F. (2017). The role of the IFG and pSTS in syntactic prediction: Evidence from a parametric study of hierarchical structure in fMRI. *Cortex*, 88, 106-123. <https://doi.org/10.1016/j.cortex.2016.12.010>
 9. Okada, K., **Matchin, W.**, & Hickok, G. (2017). Neural evidence for predictive coding in auditory cortex during speech production. *Psychonomic Bulletin & Review*, 25(1), 423-430. <https://doi.org/10.3758/s13423-017-1284-x>
 8. **Matchin, W.** & Hickok, G. (2016). 'Syntactic perturbation' during production activates the right IFG, but not Broca's area or the ATL. *Frontiers in Psychology*, 7, 241. <https://doi.org/10.3389/fpsyg.2016.00241>
 7. Venezia, J. H., Fillmore, P., **Matchin, W.**, Isenberg, A. L., Hickok, G., & Fridriksson, J.

- (2016). Perception drives production across sensory modalities: A network for sensorimotor integration of visual speech. *NeuroImage*, 126, 196-207.
<https://doi.org/10.1016/j.neuroimage.2015.11.038>
6. Venezia, J., Thurman, S., **Matchin, W.**, George, S., Hickok, G. (2015). Timing in audiovisual speech perception: A mini review and new psychophysical data. *Attention, Perception, & Psychophysics*, 78(2), 583-601. <https://doi.org/10.3758/s13414-015-1026-y>
 5. **Matchin, W.**, Sprouse, J., & Hickok, G. (2014). A structural distance effect for backward anaphora in Broca's area: an fMRI study. *Brain and Language*, 138, 1-11.
<https://doi.org/10.1016/j.bandl.2014.09.001>
 4. **Matchin, W.**, Groulx, K., & Hickok, G. (2014). Audiovisual speech integration does not rely on the motor system: evidence from articulatory suppression, the McGurk effect and fMRI. *Journal of Cognitive Neuroscience*, 26(3), 606-620.
https://doi.org/10.1162/jocn_a.00515
 3. Okada, K., Venezia, J. H., **Matchin, W.**, Saberi, K., & Hickok, G. (2013). An fMRI study of audiovisual speech perception reveals multisensory interactions in auditory cortex. *PLoS One*, 8(6), e68959. <https://doi.org/10.1371/journal.pone.0068959>
 2. Okada, K., Rong, F., Venezia, J., **Matchin, W.**, Hsieh, I.H., Saberi, K., et al. (2010). Hierarchical organization of human auditory cortex: evidence from acoustic invariance in the response to intelligible speech. *Cerebral Cortex*, 20(10), 2486-2495.
<https://doi.org/10.1093/cercor/bhp318>
 1. Rogalsky, C., **Matchin, W.**, & Hickok, G. (2008). Broca's area, sentence comprehension, and working memory: an fMRI study. *Frontiers in Human Neuroscience*, 2.
<https://doi.org/10.3389/neuro.09.014.2008>

Articles in preparation

Underline indicates student and/or postdoctoral trainee author.

4. **Matchin, W.** (*in prep*). Neuroimaging. In: *The Cambridge Handbook of Experimental Syntax*, 2nd edition. Goodall, G. (editor). Cambridge University Press.
3. *Fahey, D., *Yeaton, J., Stark, B.C., den Ouden, D., Hickok, G., Fridriksson, **Matchin, W.** (*in prep*). An objective coding scheme for grammatical production deficits in aphasia reveals a categorical divide between agrammatism and paragrammatism.
 *This is a joint first-author publication.
2. Zeinab AnimSPT development
1. Matchin, W., Problems of Paragrammatism

Book Chapters

4. **Matchin, W.** (*in press*). Neurolinguistics. In: *The Cambridge Handbook of Minimalism*. Grohmann, K.K., Leivada, E. (Eds.). Cambridge University Press.
3. **Matchin, W.** (2021). Neuroimaging. In: *The Cambridge Handbook of Experimental Syntax*. Goodall, G. (editor). Cambridge University Press.
2. **Matchin, W.** & Rogalsky, C. (2023). Aphasia and syntax. In: *The Oxford Handbook of Experimental Syntax*. Sprouse, J. (editor). Oxford University Press.
1. Venezia, J., **Matchin, W.**, & Hickok, G. (2015). Audiovisual integration. In: *Brain Mapping: An Encyclopedic Reference*. Toga A.W., Poldrack R.A. (Eds.). Amsterdam: Elsevier.

Invited Talks

Talks are listed in reverse chronological order: most recent talks first.

20. **Matchin, W.** (May 2026). Problems of Paragrammatism. Invited lecture, presented at the UMD Linguistics Mayfest Conference.

19. **Matchin, W.** (October 2025). Re-evaluating the syntax-semantics distinction in the brain. Invited colloquium talk, Program in Speech, Language and Hearing Sciences, The Graduate Center, City University of New York.
18. **Matchin, W.** (March 2025). Syntactic theory and aphasiology in the 21st century. Invited colloquium talk, Dept. of Language Science, University of California, Irvine.
17. **Matchin, W.** (Feb 2025). JoCNForum: a single archival platform for discussion of cognitive Neuroscience. Colloquium talk, Institute for Mind and Brain, University of South Carolina.
16. **Matchin, W.** (Feb 2025). Syntactic theory and aphasiology in the 21st century. Invited colloquium talk, Program in Linguistics, University of South Carolina.
15. **Matchin, W.** (June 2024). The agrammatism-paragrammatism distinction and the neurobiological architecture of grammatical encoding. Invited Keynote talk, International Workshop on Language Production, Marseille, France.
14. **Matchin, W.** (January 2024). The cortical organization of syntax: insights from aphasia. Invited colloquium talk, Dept. of Cognitive Science, Occidental College.
13. **Matchin, W.** (September 2023). Whither the syntacto-topic conjecture? Invited colloquium talk, Dept. of Linguistics, NYU.
12. **Matchin, W.** (January 2023). The Wernicke conundrum revisited. Invited lecture at Cognitive, Auditory, and Neural Bases of Language and Speech (CANBLS) at Duke University. (virtual)
11. **Matchin, W.** (September 2022). The Wernicke conundrum revisited. Invited lecture at the Center for the Study of Aphasia Recovery (C-STAR) at the University of South Carolina.
10. **Matchin, W.** (March 2022). The Wernicke Conundrum Revisited. Invited colloquium talk, Dept. of Language and Cognition, University College London (virtual).
9. **Matchin, W.** (October 2021). Grammatical Parallelism in Aphasia Revisited. Invited keynote lecture, presented at the international symposium “Leipzig Lectures on Language” at the Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig. (virtual).
8. **Matchin, W.** (June 2021). The cortical organization of syntax and aphasia. Invited lecture, presented at the international colloquium “The Representation of Language in Brains and Machines” at the Collège de France, Paris.
7. **Matchin, W.** (March 2021). The cortical organization of syntax. Invited lecture, presented at the 44th Annual Penn Linguistics Conference at the University of Pennsylvania (virtual presentation).
6. **Matchin, W.** (July 2020). Paragrammatism and the cortical organization of syntax. Invited colloquium talk, Dept. of Speech and hearing Science, Arizona State University (virtual).
5. **Matchin, W.** (December 2019). Paragrammatism and the cortical organization of syntax. Invited colloquium talk, Dept. of Hearing and Speech Sciences, Vanderbilt University.
4. **Matchin, W.** (2018). The temporal dynamics of structure and content: evidence from fMRI-constrained MEG. Invited colloquium talk at the Institute for Mind and Brain, the University of South Carolina, October 23.
3. **Matchin, W.** (2018). Theoretical linguistics within cognitive science: A crisis? Invited talk and chair of roundtable discussion. SinFonJA 11, Kraków, Poland.
2. **Matchin, W.** (2018). The cortical organization of syntax. Invited lecture presented at the Institute of English Studies of the Jagiellonian University in Kraków, Poland, October 12.
1. **Matchin, W.** (2018). The cortical organization of syntax. Invited lecture at the Center for the Study of Aphasia Recovery (C-STAR) at the University of South Carolina, August 30.

Scientific Presentations

Underline indicates student and/or postdoctoral trainee author. Publications listed in reverse chronological order: most recent presentations first.

94. **Matchin, W.**, Decker, S., Desai, R., Dixon, R., Bonilha, L., & Fridriksson, J. (**October 2026**). Factor-based lesion-symptom mapping of pyramids and palm trees in chronic post-stroke aphasia reveals multiple semantic subsystems of the brain. Poster to be presented at the Academy of Aphasia
93. **Matchin, W.**, Decker, S., Desai, R., Dixon, R., Bonilha, L., & Fridriksson, J. (**October 2026**). Factor-based lesion-symptom mapping of pyramids and palm trees in chronic post-stroke aphasia reveals multiple semantic subsystems of the brain. Poster to be presented at the Society for the Neurobiology of Language.
92. Hammond, L., **Matchin, W.**, Hogan, A., Newman-Norlund, R., Fridriksson, J., & den Ouden, D. (**October 2026**). Functional Communication in Context: Psychometric Evaluation of the Computerized Adaptive Scenario Test (CAST) and Its Relationship to Social Networks in Chronic Aphasia. Poster. Poster to be presented at the Academy of Aphasia.
91. Khoshhal Mollasaraei, Z., Fahey, D., Yeaton, J.D., Gomez, M., den Ouden, D., Casilio, M., Seaman, M., Hickok, G., Fridriksson, J., & **Matchin, W.** (**October 2026**). Detecting Sentence-Level Deficits in Aphasia: Distinguishing Agrammatic from Paragrammatic Profiles Across Structured and Connected Speech Measures. Poster to be presented at the Academy of Aphasia.
90. Khoshhal Mollasaraei, Z., den Ouden, D., Fridriksson, J., Seaman, M., Hickok, G., & **Matchin, W.** (**November 2026**). Development and Validation of the Animated Sentence Production Test (AnimSPT): Investigating Morphosyntactic Deficits in Aphasia. Talk (technical session) to be presented at the American Speech and Hearing Association.
89. Xie, A.X., Sich, A., Malek, Z., Brunk, Z., **Matchin, W.**, & Khoshhal Mollasaraei, Z. (2026). Differentiating Agrammatism and Paragrammatism Using an Improved Morphosyntactic Coding Scheme. Poster presented at the Aphasia Lab Aphasia Community Event.
88. Xie, A.X., Sich, A., Malek, Z., Brunk, Z., **Matchin, W.**, & Khoshhal Mollasaraei, Z. (2026). Differentiating Agrammatism and Paragrammatism Using an Improved Morphosyntactic Coding Scheme. Poster presented at the USC Institute for Mind and Brain Conference.
87. Xie, A.X., Sich, A., Malek, Z., Brunk, Z., **Matchin, W.**, & Khoshhal Mollasaraei, Z. (2026). Differentiating Agrammatism and Paragrammatism Using an Improved Morphosyntactic Coding Scheme. Poster presented at the USC Neuroscience Retreat.
86. Nasiri, N., den Ouden, D., Fridriksson, J., **Matchin W.** (2026). Articulatory Precision Links Inferior Frontal Cortical Thickness and Cognitive Performance in Healthy Adult Women. Poster presented at the Discovery USC conference at the University of South Carolina.
85. Dixon, R., den Ouden, D., Desai, R., Decker, S., Bonilha, L., Fridriksson, J., & **Matchin, W.** (2026). Prefrontal Contributions to Non-Linguistic Semantic Cognition Revealed by Lesion-Symptom Mapping. Poster presented at the Georgia Neurological Society
84. Nasiri, N., den Ouden, D., Fridriksson, J., **Matchin W.** (2026). Dual Mediation of Cognitive Function by Prefrontal Cortical Thickness and Vowel Articulation in Healthy Adult Women. Poster presented at the Cognitive Neuroscience Society.
83. Yeaton, J.D., Fahey, D., **Matchin, W.**, den Ouden, D., Fridriksson, J., & Hickok, G. (2025). Overarching paragrammatism: Shared circuitry for paragrammatism and syntactic comprehension deficits in post-stroke aphasia. Talk presented at the Academy of Aphasia.
82. Hammond, L., Norris, L., **Matchin, W.**, Hogan, A., Fridriksson, J., den Ouden, D. (2025). Social Network Composition Influences Chronic Post-Stroke Aphasia Recovery. Talk (technical session) presented at the American Speech and Hearing Association.
81. Hammond, L., Norris, L., **Matchin, W.**, Hogan, A., Fridriksson, J., den Ouden, D. (2025). Social Network Composition Influences Chronic Post-Stroke Aphasia Recovery. Poster presented at the Academy of Aphasia.
80. Khoshhal Mollasaraei, Z., den Ouden, D., Hickok, G., Fridriksson, J., & **Matchin, W.** (2025).

- Development and validation of the Animated Sentence Production test for aphasia. Poster presented at the Academy of Aphasia.
79. Khoshhal Mollasaraei, Z., den Ouden, D., Hickok, G., Fridriksson, J., & **Matchin, W.** (2025). The Animated Sentence Production Test (AnimSPT) for Aphasia: Pilot Study of Test Development and Preliminary Validation. Poster presented at the Society for the Neurobiology of Language.
 78. Khoshhal Mollasaraei, Z., den Ouden, D., Hickok, G., Fridriksson, J., & **Matchin, W.** (2025). Development and Validation of the Animated Aphasia Test (AAT) for Assessing Sentence Production Deficits in Aphasia. Poster presented at the Clinical Aphasiology Conference.
 77. Khoshhal Mollasaraei, Z., & **Matchin, W.** (2025). Development of a Sentence Production test Using Animated Stimuli for Aphasia Assessment. Poster presented at the Discover USC conference at the University of South Carolina.
 76. Khoshhal Mollasaraei, Z., & **Matchin, W.** (2025). Development of a Sentence Production test Using Animated Stimuli for Aphasia Assessment. Poster presented at the USC Institute for Mind and Brain Conference.
 76. Dixon, R., den Ouden, D., Fridriksson, J., Desai, R., & **Matchin, W.** (2025). Disambiguating Semantic Processing and Executive Function in Post-Stroke Aphasia. Poster presented at the Discover USC conference at the University of South Carolina.
 75. Dixon, R., den Ouden, D., Fridriksson, J., Desai, R., & **Matchin, W.** (2025). Disambiguating Semantic Processing and Executive Function in Post-Stroke Aphasia. Poster presented at the USC Institute for Mind and Brain Conference.
 74. Christensen, T., **Matchin, W.**, Friedman, L., Klusek, J. (2025). Working Memory and Processing Speed Do Not Account for Reduced Sentence Processing Speed in Women with the *FMR1* Premutation. Poster to be presented at the Gatlinburg Conference on Research and Theory in Intellectual and Developmental Disabilities.
 73. Christensen, T., **Matchin, W.**, Friedman, L., Klusek, J. (2025). Working Memory and Processing Speed Do Not Account for Reduced Sentence Processing Speed in Women with the *FMR1* Premutation. Poster presented at the South Carolina Autism and Neurodevelopmental Disorders Consortium Research Symposium.
 72. Dixon, R., den Ouden, D., Fridriksson, J., Desai, R., & **Matchin, W.** (2025). Disambiguating Semantic Processing and Executive Function in Post-Stroke Aphasia. Poster presented at the Cognitive Neuroscience Society.
 71. **Matchin, W.*** (2025). JoCNForum: a single archival platform for discussion of cognitive neuroscience. Symposium talk to be presented at the Cognitive Neuroscience Society.
*Co-Organizer of Symposium Session 2 - New directions in scientific communication in cognitive neuroscience.
 70. Yeaton, J.D., Kristinsson, S., **Matchin, W.**, Newman-Norlund, R., Absher, J., Fridriksson, J., Hickok, G., (2024). The left hemisphere isn't so dominant after all: Prevalence of aphasia in acute right-hemisphere stroke. Poster presented at the Society for the Neurobiology of Language (SNL).
 69. **Matchin, W.**, Khoshhal Mollasaraei, Z., den Ouden, D., & Fridriksson, J. (2024). Lesion-symptom mapping of phonological working memory load using rhyme judgments in people with chronic post-stroke aphasia. Poster presented at the Society for the Neurobiology of Language (SNL).
 68. **Matchin, W.**, den Ouden, D., & Fridriksson, J. (2024). Lesion-symptom mapping of phonological working memory load using rhyme judgments in people with chronic post-stroke aphasia. Poster presented at the 53rd annual Clinical Aphasiology Conference (CAC).
 67. Khoshhal Mollasaraei, Z., Fridriksson, J., den Ouden, D., & **Matchin, W.** (2024). Exploring

- agrammatism: Insights from perceptual, quantitative analysis, and neuroimaging perspectives. Poster presented at the 53rd annual Clinical Aphasiology Conference (CAC).
66. Yeaton, J.D., Fahey, D., Matchin, W., Hickok, G., (2024). Asymmetry of productive & receptive sentence processing deficits in post-stroke aphasia. Poster presented at the Human Sentence Processing Conference.
 65. Riccardi, N., Somani, S., Matchin, W. (2024). Sentence processing across the lifespan: working memory, syntax, and grey matter atrophy. Poster presented at the 2024 Conference on Reading and the Brain at the Institute for Mind and Brain at the University of South Carolina.
 64. Somani, S., Riccardi, N., Matchin, W. (2024). Lack of speed-accuracy trade-off in older adults for self-paced reading. Poster presented at the 2024 Conference on Reading and the Brain at the Institute for Mind and Brain at the University of South Carolina.
 63. Khoshhal Mollasaraei, Z., den Ouden, D.B., Fridriksson, J., Matchin, W. (2024). Exploring agrammatism: insights from perceptual, quantitative analysis, and neuroimaging perspectives. Poster presented at the 2024 Conference on Reading and the Brain at the Institute for Mind and Brain at the University of South Carolina.
 62. Christensen, T., Matchin, W., Klusek, J. (2024). Syntactic processing in women with the FMR1 premutation. Poster presented at the 2024 Conference on Reading and the Brain at the Institute for Mind and Brain at the University of South Carolina.
 61. **Matchin, W. (2023).** Brain age predicts sentence processing declines in healthy aging beyond chronological age and domain general working memory abilities. Poster presented at the Society for the Neurobiology of Language.
 60. Yeaton, J.D., Fahey, D., Matchin, W., Hickok, G., (2023). Evidence for a syntactic production-comprehension asymmetry in post-stroke aphasia. Poster presented at the Society for the Neurobiology of Language.
 59. Stockbridge, M., Matchin, W., Sharif, M., Fridriksson, J., Faria, A. V., Hillis, A. E., (2023). Mary's book and big shoes: Production of noun-modifier phrases in individuals with acute post-stroke aphasia. Poster presented at the Society for the Neurobiology of Language.
 58. Fahey, D., Yeaton, J., Stark, B.C., Fridriksson, J., Hickok, G., Matchin, W. (2022). Analyses of agrammatic & paragrammatic speech: A comparison of discourse & utterance level analyses. Poster presented at the 60th annual meeting of the Academy of Aphasia.
 57. **Matchin, W., den Ouden, D.B., Hickok, G., Hillis, A.E., Bonilha, L., Fridriksson, J. (2022).** The Wernicke conundrum revisited: evidence from connectome-based lesion-symptom mapping in post-stroke aphasia. Talk presented at the 60th annual meeting of the Academy of Aphasia.
 56. Fahey, D., Yeaton, J., Stark, B.C., Fridriksson J., Hickok, G., Matchin, W. (2022). Utterance-level analyses of grammatical errors in aphasic discourses. Poster presented at the Society for the Neurobiology of Language.
 55. **Matchin, W., den Ouden, D.B., Hickok, G., Hillis, A.E., Bonilha, L., Fridriksson, J. (2022).** The Wernicke conundrum revisited: evidence from connectome-based lesion-symptom mapping in post-stroke aphasia. Poster presented at the Society for the Neurobiology of Language.
 54. **Matchin, W., Basilakos, A., Stark, B.C., den Ouden, D.B., Fridriksson, J., Hickok, G. (2022).** Grammatical parallelism in aphasia revisited. Poster presented at the Society for Human Sentence Processing (HSP) (virtual).
 53. Fahey, D., Igoe, J., Fridriksson, J., Hickok, G., Matchin, W. (2022). Anomalous sentence processing by people with aphasia and age-matched controls. Poster presented at the Society for Human Sentence Processing (HSP) (virtual).

52. Fahey, D., Igoe, J., Fridriksson, J., Hickok, G., **Matchin, W.** (2021). Localizing syntactic comprehension through syntactic acceptability judgments & lesion symptom mapping. Poster presented at the 59th annual meeting of the Academy of Aphasia.
51. **Matchin, W.**, Stockbridge, M.D., Walker, A., Breining, B., Hillis, A.E., Fridriksson, J., Hickok, G. (2021). Distinct aspects of phrasal production are associated with distinct lesion correlates in chronic post-stroke aphasia. Poster presented at the 59th annual meeting of the Academy of Aphasia.
50. **Matchin, W.**, Basilakos, A., Stark, B.C., den Ouden, D.B., Fridriksson, J., Hickok, G. (2021). Grammatical parallelism in aphasia revisited: a common lesion substrate for syntactic production and comprehension deficits in the posterior temporal lobe. Talk presented at the 59th annual meeting of the Academy of Aphasia.
49. Fahey, D., Igoe, J., Fridriksson, J., Hickok, G., **Matchin, W.** (2021). Localizing syntactic comprehension through syntactic acceptability judgments & lesion symptom mapping. Slide Slam (poster) presented at the 13th annual meeting of the Society for the Neurobiology of Language.
48. **Matchin, W.**, Stockbridge, M.D., Walker, A., Breining, B., Hillis, A.E., Fridriksson, J., Hickok, G. (2021). Distinct aspects of phrasal production are associated with distinct lesion correlates in chronic post-stroke aphasia. Slide Slam (poster) presented at the 13th annual meeting of the Society for the Neurobiology of Language.
47. **Matchin, W.**, Basilakos, A., Stark, B.C., den Ouden, D.B., Fridriksson, J., Hickok, G. (2021). Grammatical parallelism in aphasia revisited: a common lesion substrate for syntactic production and comprehension deficits in the posterior temporal lobe. Slide Slam (poster) presented at the 13th annual meeting of the Society for the Neurobiology of Language.
46. **Matchin, W.** (October 2020). The Language Organ. Talk presented at the Center for Research on Language, UCSD (virtual).
45. Fahey, D., Fridriksson, J., Hickok, G., **Matchin, W.** (2020). Localizing syntactic comprehension through syntactic acceptability judgments & lesion symptom mapping. Poster presented at the 12th annual meeting of the Society for the Neurobiology of Language.
44. **Matchin, W.**, Basilakos, A., den Ouden, D.B., Stark, B.C., Hickok, G., Fridriksson, J. (2020). Neuroanatomical dissociations of syntax and semantics revealed by lesion-symptom mapping. Poster presented at the 12th annual meeting of the Society for the Neurobiology of Language.
43. **Matchin, W.**, Wood, E. (2020). Syntax-sensitive regions of the posterior inferior frontal gyrus and the posterior temporal lobe are differentially recruited by production and perception. Poster presented at the 12th annual meeting of the Society for the Neurobiology of Language.
42. **Matchin, W.** (July 2020). The language organ: architecture and development. Talk presented in the Abralín ao vivo – Linguists Online series of the Brazilian Linguistics Association (virtual).
41. **Matchin, W.** (April 2020). The Language Organ. Colloquium talk, Program in Linguistics, University of South Carolina (virtual).
40. Stockbridge, M.D., **Matchin, W.**, Walker, A., Adams, L., Breining, B., Fridriksson, J., Hickok, G., Hillis, A.E. (2020). Dissociable deficits in morphosyntactic production in post-stroke aphasia and primary progressive aphasia. Poster presented at the Clinical Aphasiology Conference.
39. Wood, E. & **Matchin, W.** (March 2020). Syntactic working memory. Poster presented at the 27th annual Cognitive Neuroscience Society (virtual).
38. **Matchin, W.**, Basilakos, A., Stark, B.C., den Ouden, D.B., Fridriksson, J., Hickok, G. (2019).

- Paragrammatism and Agrammatism: a cortical double dissociation revealed by lesion-symptom mapping. Talk presented at the 57th annual meeting of the Academy of Aphasia.
37. **Matchin, W.**, Adams, L., Footman, W., Wood, E., Fridriksson, J., Hillis, A.E., Hickok, G.. (2019). The morphosyntactic generation (MorGen) task: quantifying dissociable production deficits in post-stroke aphasia and primary progressive aphasia. Poster presented at the University of South Carolina Dept. of Communication Sciences and Disorders 'Get the Message' conference.
 36. Basilakos, A., Stark, B.C., **Matchin, W.**, den Ouden, D.B., Fridriksson, J., Hickok, G. (2019). Rating Paragrammatism in Speakers with Aphasia: Methods and Reliability. Poster presented at the Annual ASHA Convention, Orlando.
 35. **Matchin, W.**, Basilakos, A., den Ouden, D.B., Stark, B.C., Fridriksson, J., Hickok, G. (2019). Paragrammatism, agrammatism and the cortical organization of syntax: a lesion-symptom mapping study. Poster presented at the 11th annual meeting of the Society for the Neurobiology of Language.
 34. **Matchin, W.**, Basilakos, A., den Ouden, D.B., Stark, B.C., Fridriksson, J., Hickok, G. (2019). Paragrammatism: a lesion-symptom mapping study. Poster presented at the 26th Annual Meeting of the Cognitive Neuroscience Society, San Francisco.
 33. Mayberry, R., Hatrak, M., Ilkbasaran, D., **Matchin, W.**, Villwock, A., Roth, A., & Halgren, E. (2018). Syntactic development and neurolinguistic processing go hand in hand: Evidence from early vs late L1 acquisition of ASL. Talk presented at the Boston University Conference on Child Language, Boston.
 32. Villwock, A., **Matchin, W.**, Roth, A., Ilkbasaran, D., Hatrak, M., Davenport, T., Halgren, E. & Mayberry, M. (2018). The neural basis of syntactic processing in American Sign Language: An fMRI study. Poster presented at the 13th High Desert Linguistics Society Conference.
 31. **Matchin, W.**, Brodbeck, C., Hammerly, C., & Lau, E. (2018). The temporal dynamics of structure and content in the language network. Talk presented at the 31st CUNY sentence processing conference.
 30. **Matchin, W.**, Almeida, D., Sprouse, J., & Hickok, G. (2018). Semantic processing triggered by subject island violations (but not phrase structure violations): evidence from fMRI. Poster presented at the 31st CUNY sentence processing conference.
 29. **Matchin, W.** (2018). The neurobiology of language: insights both from and for linguistic theory. Talk presented at the UCLA Linguistics Department psycholinguistics seminar.
 28. **Matchin, W.**, Almeida, D., Sprouse, J., & Hickok, G. (2018). Semantic processing triggered by subject island violations (but not phrase structure violations): evidence from fMRI. Poster presented at the 92nd Annual Meeting of the Linguistic Society of America.
 27. **Matchin, W.**, Almeida, D., Sprouse, J., & Hickok, G. (2017). Semantic processing triggered by subject island violations (but not phrase structure violations): evidence from fMRI. Talk presented at the first CALifornia Meeting on Psycholinguistics (CAMP) 2017.
 26. **Matchin, W.**, Villwock, A., Roth, A., Ilkbasaran, D., Hatrak, M., Davenport, T., Halgren, E. & Mayberry, M. (2017). The cortical organization of syntactic processing in American Sign Language: Evidence from a parametric manipulation of constituent structure in fMRI and MEG. Poster presented at the 9th annual meeting of the Society for the Neurobiology of Language.
 25. **Matchin, W.**, & Hickok, G. (2017). A syntax area in the posterior superior temporal sulcus. Poster presented at the 9th annual meeting of the Society for the Neurobiology of Language.
 24. Okada, K., **Matchin, W.**, & Hickok, G. (2017). Phonological Feature Repetition Suppression in the Left Inferior Frontal Gyrus. Poster presented at the 9th annual meeting of the Society for the Neurobiology of Language.

23. Villwock, A., **Matchin, W.**, Roth, A., Ilkbasaran, D., Hatrak, M., Davenport, T., Halgren, E. & Mayberry, M. (2017). The cortical organization of syntactic processing in American Sign Language: Evidence from a parametric manipulation of constituent structure in fMRI and MEG. Poster presented at the 47th annual meeting of the Society for Neuroscience.
22. **Matchin, W.** (2017). The cortical organization of syntactic processing in American Sign Language. Talk presented at the Center for Research on Language, UCSD.
21. **Matchin, W.**, Liao, C., Gaston, P., & Lau, E.F. (2017). An fMRI investigation of argument structure and syntactic selection. Poster presented at the 24th annual meeting of the Cognitive Neuroscience Society.
20. **Matchin, W.** (January 2017). Structure and Content in Real-time: an integrated theory of syntax. Linguistics Dept. Colloquium talk, UC Irvine.
19. **Matchin, W.** (November 2016). On the relation between syntactic theory and sentence processing, and a theory of island phenomena. Linguistics Dept. Colloquium talk, UCSD.
18. **Matchin, W.** (2016). On the relation between syntactic theory and sentence processing, and a theory of island phenomena. Talk presented at the Center for Research on Language, UCSD.
17. **Matchin, W.**, Hammerly, C., Lau, E. (2015). A parametric study of hierarchical structure-building in fMRI and MEG. Poster presented at the 7th annual meeting of the Society for the Neurobiology of Language.
16. **Matchin, W.**, Hickok, G. (2014). A novel approach to investigating the neural correlates of syntax: a 'syntactic perturbation' paradigm during sentence production. Poster presented at the 6th annual meeting of the Society for the Neurobiology of Language.
15. Venezia, J., Fillmore, P., **Matchin, W.**, Isenberg, A.L., Hickok, G., Fridriksson, J. (2014). Cortical network for sensorimotor integration of audio-visual speech. Poster presented at the 6th annual meeting of the Society for the Neurobiology of Language.
14. **Matchin, W.** & Hickok, G. (2014). A 'syntactic perturbation' paradigm during sentence production reveals sentence processing networks in the brain. Poster presented at the 21st annual meeting of the Cognitive Neuroscience Society.
13. **Matchin, W.**, Sprouse, J., Hickok, G. (2013). A syntactic distance effect for backwards anaphora in Broca's area: an fMRI study. Poster presented at the 5th annual meeting of the Society for the Neurobiology of Language.
12. Venezia, J., Thurman, S., **Matchin, W.**, George, S., Hickok, G. (2013). Mapping the timecourse of visual interference on auditory speech perception: A novel application of the McGurk effect. Poster presented at the 5th annual meeting of the Society for the Neurobiology of Language.
11. **Matchin, W.** & Hickok, G. (2013). Audiovisual speech integration does not rely on the motor system: evidence from articulatory suppression, the McGurk effect and fMRI. Poster presented at the 20th annual meeting of the Cognitive Neuroscience Society.
10. **Matchin, W.**, Ferrill, M., Rogalsky, C., Love, T., Hickok, G. (2012). Audiovisual speech integration does not rely on the motor system: evidence from intact McGurk fusion in Broca's aphasia. Poster presented at the 4th annual Neurobiology of Language Conference.
9. **Matchin, W.**, Ferrill, M., Rogalsky, C., Love, T., Hickok, G. (2012). Audiovisual speech integration does not rely on the motor system. Talk presented at the 42nd annual meeting of the Society for Neuroscience.
8. **Matchin, W.**, Sprouse, J., & Hickok, G. (2012). Broca's area shows a distance effect for both syntactic movement and backwards anaphora in fMRI. Poster presented at the 25th CUNY Sentence Processing Conference.
7. **Matchin, W.**, Sprouse, J., & Hickok, G. (2012). Broca's area shows a distance effect for both syntactic movement and backwards anaphora in fMRI. Poster presented at the 19th annual meeting of the Cognitive Neuroscience Society.

6. Okada, K., **Matchin, W.**, Alshara, S., & Hickok, G. (2012). A hierarchy of internal forward models in speech production. Poster presented at the 19th annual meeting of the Cognitive Neuroscience Society.
5. **Matchin, W.** & Hickok, G. (2011). Visual speech and speech production rely on separate cognitive networks: evidence from articulatory suppression, the McGurk effect and fMRI. Talk presented at the 2nd annual Southern California Cognitive Neuroscience Meeting.
4. **Matchin, W.** & Hickok, G. (2011). Visual speech and speech production rely on separate cognitive networks: evidence from articulatory suppression, the McGurk effect and fMRI. Poster presented at the 3rd annual Neurobiology of Language Conference.
3. **Matchin, W.**, Ferril, M., Rogalsky, C., Love, T., & Hickok, G. (2011). Role of the motor system in audio-visual speech integration: evidence from the McGurk effect in Broca's aphasia. Poster presented at the 18th annual meeting of the Cognitive Neuroscience Society.
2. Okada, K., Venezia, J., **Matchin, W.**, Saberi, K., & Hickok, G. (2010). Activity in primary auditory cortex is enhanced by visual speech. Poster presented at the 2nd annual Neurobiology of Language Conference.
1. Okada, K., Venezia, J., **Matchin, W.**, Saberi, K., Serences, J., & Hickok, G. (2009). Early auditory cortical regions discriminate intelligible from unintelligible speech. Poster presented at the 1st Neurobiology of Language Conference.

Guest Lectures

7. January 2024. Biological Foundations of Language. Occidental College, Dept. of Cognitive Science. Instructors: Aleksandra Sherman & Dylan Sabo.
6. November 2023. Sign language and the brain. University of South Carolina, Dept. of Communication Sciences and Disorders. Instructor: Dirk den Ouden.
5. October 2023. Syntax and the Brain. University of Delaware, Dept. of Linguistics and Cognitive Science. Instructor: Lynsey Keator.
4. March 2020. The cortical organization of syntax. University of Georgia, Dept. of Linguistics. Instructor: John Hale.
3. November 2019. Syntax and the brain. Indiana University Bloomington, Dept. of Speech and Hearing Sciences. Instructor: Brielle C. Stark.
2. April 2019. Sign language and the brain. University of South Carolina, Dept. of Communication Sciences and Disorders. Instructor: Dirk den Ouden.
1. October 2018. The cortical organization of syntax. Jagiellonian University (Kraków, Poland)

Ad-hoc Reviewer/Editor – Journal

Nature Human Behavior, Nature Communications, Neuron, Brain, Neuropsychology Review, Neurobiology of Language, PNAS, NeuroImage, Cerebral Cortex, eLife, PLoS Biology, Human Brain Mapping, Psychological Science, Philosophical Transactions of the Royal Society B, Cortex, Journal of Memory and Language, Journal of Cognitive Neuroscience, Psychonomic Bulletin and Review, European Journal of Neuroscience, Aging Brain, Brain and Language, Cognitive Psychology, Language, Cognition and Neuroscience, Journal of Neurolinguistics, Scientific Reports, PLoS One, Neuropsychologia, JSLHR, Biolinguistics, Neuroscience Letters, Ear and Hearing, Experimental Brain Research, Frontiers in Psychology, Brain Structure and Function, Brain Research, Glossa

Guest Editor for PNAS (1 time), Guest Editor for Frontiers in Psychology (1 time)

Ad-hoc Reviewer – Funding Agencies

NIH LCOM Study Section (Summer 2026), National Science Foundation (NSF), Austrian Academy of Sciences Doctoral Fellowship Program

Professional Memberships

Cognitive Neuroscience Society	2010-2020
Society for the Neurobiology of Language	2011-present
Society for Neuroscience	2012-2018
Linguistics Society of America	2017-2018
Academy of Aphasia	2021-present

Teaching

USC Courses

COMD570: Language Development	Professor	Spring 2026
COMD822: Normal Bases of Speech Production	Professor	Spring 2026
COMD570: Language Development	Professor	Summer 2025
COMD570: Language Development	Professor	Spring 2025
COMD822: Normal Bases of Speech Production	Professor	Spring 2024
COMD570: Language Development	Professor	Spring 2024
SCHC401 H01: Language and the Brain	Professor	Fall 2023
COMD570: Language Development	Professor	Summer 2023
COMD570: Language Development	Professor	Spring 2023
COMD570: Language Development	Professor	Summer 2022
COMD822: Normal bases of Speech Production	Professor	Spring 2022
COMD570: Language Development	Professor	Summer 2021
COMD823: Normal Bases of Language	Professor	Spring 2021
COMD570: Language Development	Professor	Summer 2020
COMD822: Normal Bases of Speech Production	Professor	Spring 2020
COMD570: Language Development	Professor	Summer 2019

Courses taught prior to current appointment at USC

UCSD LIGN101: Intro. to the Study of Language	Lecturer	Spring 2018
Washington English Center ESL 4C	Volunteer Instructor	Summer 2015
Washington English Center ESL Basic B	Volunteer Instructor	Spring 2015
UCI Ling 3: Introduction to Linguistics	Teaching Assistant	Summer 2014
UCI Ling 3: Introduction to Linguistics	Teaching Assistant	Spring 2014
UCI Psych 56L: Acquisition of Language	Teaching Assistant	Winter 2014
UCI Psych 9A: Psychology Fundamentals	Teaching Assistant	Fall 2013
UCI Ling 10: Introduction to Phonology	Lecturer	Summer 2013
UCI Ling 3: Introduction to Linguistics	Teaching Assistant	Winter 2013
UCI Ling 3: Introduction to Linguistics	Teaching Assistant	Fall 2012
UCI Ling 20: Introduction to Syntax	Lecturer	Summer 2012
UCI Ling 10: Introduction to Phonology	Lecturer	Summer 2012
UCI Ling 3: Introduction to Linguistics	Teaching Assistant	Spring 2012
UCI Ling 3: Introduction to Linguistics	Teaching Assistant	Winter 2012
UCI Ling 3: Introduction to Linguistics	Teaching Assistant	Fall 2011
UCI Psych 161: Language and the Brain	Teaching Assistant	Spring 2011
UCI Psych 9A: Psychology Fundamentals	Teaching Assistant	Winter 2011
UCI Psych 155: Psychology of Language	Teaching Assistant	Fall 2010
UCI Ling 10: Intro to Phonology	Teaching Assistant	Spring 2010

UCI Psych 159: Creating Languages

Teaching Assistant

Fall 2009

Student/Postdoc Supervision

Graduate

Taravat Yazdani (2026-present)
 Xuehan (Annie) Xue (2026-present)
 Thomas Christensen (2024-present)
 Alexandra Krauska (2022-2024)
 Cara Vandergriff (2024-present)
 Samin Ashjaei (2024-present)
 Lauren Hammond (2024-present)

Zeinab Khoshhal Mollasaraei (2023-2026)
 Jacob Stanley (2023-present)
 Emily Szabo (2021)
 Lisa Johnson (2021)
 Lindsay Schmitt (2020)
 Jeremy Yeaton (2020-2025)

Danielle Fahey (2020-2022)

Research Mentor
 Dissertation Committee
 Comprehensive Exam Committee
 Comprehensive Exam Committee (UMD)
 Comprehensive Exam Committee
 Comprehensive Exam Committee
 Comprehensive Exam Committee,
Dissertation Director
Dissertation Director
 Dissertation Committee
 Master's Thesis Committee
 Comprehensive Exam Committee
 Master's Thesis Committee
 Dissertation Committee Member & Co-Advisor
 (UC Irvine)
Postdoctoral Supervisor

Undergraduate

Zander Brunk (2025-present)
 Zachary Malek (2025-present)
 Zayd Kidwai (2025-present)
 Neekan Nasiri (2025-present)
 Avery Sich (2025-present)
 Chathurvedi (Vedi) Ganguru (2025-2026)
 Ryan Dixon (2024-2025)
 James Ratner (2023-2025)
 Neha Vallabhaneni (2023-2024)
 Veronica Graham (2024)
 Saanvi Somani (2023-2024)
 Cecilia Cherico (2022-2024)
 Kat McConnell (2022-present)
 Sarah Germany (2022-2024)
 Rachael Lobb (2021-2022)
 Emma Hanson (2021-2023)
 Julia Igoe (2021-2022)
 Hannah Grim (2019)
 Emily Wood (2018-2022)

Research Mentor
 Journey Early Researchers Grant Mentor
 Top Scholars Faculty Mentor
 Honors Thesis Advisor
 Honors Thesis Advisor
 Honors Thesis Advisor
 Honors & Neuroscience Major Thesis Advisor
 Honors Thesis Advisor
 Research Mentor
 Research Mentor
 Research Mentor
 Research Mentor
 Research Mentor
 Honors Thesis Advisor
 Research Mentor
 Research Mentor
 Research Mentor
 Research Mentor
 Research Mentor

Technical Skills

Programming

Matlab/PsychToolBox
 UNIX/LINUX

Languages

English (native)
 American Sign Language (moderate)
 French (beginner)
 Persian (beginner)

Workshops, Blog Posts, and JoCNForum Posts

Postle, B. R., & Matchin, W. (2025). New Directions in Scientific Communication in Cognitive Neuroscience. JoCN Forum. <https://doi.org/10.21428/8e6ba8ef.96c27cc4>

Matchin, W. (2025). The lesion validity conjecture. JoCN Forum. <https://doi.org/10.21428/8e6ba8ef.86fba807>

Matchin, W., & Postle, B. R. (2024). Editorial: The Launch of JoCNForum. JoCN Forum. <https://doi.org/10.21428/8e6ba8ef.5512e3a2>

Matchin, W. (2024). Neurobiology of language: the top 15 most influential papers (to me). JoCN Forum. <https://doi.org/10.21428/8e6ba8ef.60672ddd>

Matchin, W. (2024). Response to “Is the Brain Mostly a Modular System or Do We Need Distributed Processing Frameworks?”: The modular approach to brain organization is extremely fruitful. JoCN Forum. <https://doi.org/10.21428/8e6ba8ef.5e7186be>

On ConLangs and brains.

<https://www.neurosyntaxlab.org/post/on-conlangs-and-brains>

Frontiers gets some things right.

<https://www.neurosyntaxlab.org/post/frontiers-gets-some-things-right>

Host & Moderator: Hickok & Poeppel 20-year retrospective.

<https://youtu.be/6GgeLbhXeCg>

Organizer and Host: CUNY 2020 Remote Data Collection Workshop.

<https://youtu.be/d6PnqILXwWQ>

Talking Brains: Review of W. T. Fitch’s *Evolution of Language*

<http://www.talkingbrains.org/2014/01/tecumseh-fitchs-evolution-of-language.html>

Talking Brains: Broca’s area doesn’t care what you do syntactically

<http://www.talkingbrains.org/2014/10/brocas-area-doesnt-care-what-you-do.html>

Talking Brains: What’s the right hemisphere doing?

<http://www.talkingbrains.org/2016/02/whats-right-hemisphere-doing-guest-post.html>

Talking Brains: Abstractness, innateness, and modality-independence of language

<http://www.talkingbrains.org/2017/11/abstractness-innateness-and-modality.html>

Talking Brains: Reply to Jarvis

<http://www.talkingbrains.org/2018/01/reply-to-erich-jarvis-by-william-matchin.html>

Faculty of Language: Brains and syntax: part 1

<http://facultyoflanguage.blogspot.com/2016/09/brains-and-syntax.html>

Faculty of Language: Brains and syntax: part 2

<http://facultyoflanguage.blogspot.com/2016/09/brains-and-syntax-part-2.html>

Faculty of Language: Reflections on SinFonIJA 11: part 1

<http://facultyoflanguage.blogspot.com/2018/11/guest-post-by-william-matchin.html>

Faculty of Language: Reflections on SinFonIJA 11: part 2

<http://facultyoflanguage.blogspot.com/2018/11/guest-post-by-william-matchin-on.html>

Service/volunteer activities

USC COMD Faculty Search Committee Chair

2025-2026

USC COMD Faculty Search Committee Member	2024-2025
USC ASPH Scholastic Standards and Petitions Committee	2021-present
USC COMD Colloquium committee chair	2022-present
USC COMD Student Wellness Committee	2021-present
USC Graduate Council	2021-2024
USC ASPH Student Awards Committee	2020
USC COMD Master's Program Admissions Committee	2020-2021, 2024
USC COMD Frank Scholarship Committee Leader	2019-2021
USC Institute for Mind and Brain Annual Conference Organizer	2019, 2024
USC Faculty Senate	2018-2021
USC COMD Doctoral Program Committee	2018-present
USC COMD Summative Assessment Committee	2018-present
Our Revolution South Carolina	2018-2020
Secretary	2019-2020
Member & Volunteer	2018-2020
Local school visits to UMD Language Science Center	2015-2016
Presenter	
Washington English Center	Winter-Summer 2015
Volunteer ESL Instructor	
UMD Language Science Center "Winter Storm"	Winter 2015
Special interest group discussion leader:	
"Technology and language"	
Climatepedia: climate change advocacy & education	Spring 2014
Member/Volunteer	
UCI Cognitive Sciences Department	2013-2014
Graduate Liaison	
Irvine Unified School District Annual Science Fair	2013-2014
Volunteer Judge	
Irvine Unified School District "Ask-A-Scientist Night"	2012
Volunteer Panel Member	