

Christine Brennan, Ph.D. CCC-SLP/L

Assistant Professor & CAA SLP Program Director
 Department of Speech, Language, and Hearing Sciences
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EDUCATION

- 2014 Ph.D., Communication Sciences and Disorders
 Department of Communication Sciences and Disorders, Northwestern University
- 1999 M.A., Speech-Language Pathology
 Department of Communication Sciences and Disorders, Northwestern University
- 1996 B.A., Communication Disorders
 Department of Communication Disorders, Southern Connecticut State University

CERTIFICATIONS/LICENSURE

- 2000-Present Certificate of Clinical Competence, ASHA
- 2000-Present License in Speech Language Pathology, Illinois
- 2021-Present License in Speech Language Pathology, Colorado

PROFESSIONAL EXPERIENCE

- 2015-Present Assistant Professor
 MA-SLP CAA Program Director (since 2023)
 MA-SLP Committee Chair (since 2024)
 Coordinator of Undergraduate Study (2020-2023)
 Department of Speech, Language, and Hearing Sciences, University of Colorado Boulder
- 2015-Present Academic Fellow
 Institute of Cognitive Sciences, University of Colorado Boulder
- 2015-Present Academic Fellow
 Center for Neuroscience, University of Colorado Boulder
- 2014-2015 Visiting Assistant Professor
 Department of Communication Sciences and Disorders, Northwestern University
- 2003-2020 Owner/Partner and Lead Clinical Speech-Language Pathologist
 Brennan & Burns, LLC, Skokie, IL
- 1999-2003 Speech-Language Pathologist
 Niles Township District of Special Education (NTDSE), District 807, IL

EXTERNAL GRANTS

- 2025 Vocational Activities and their Cognitive-Behavioral Correlates in Adults with Smith-Magenis Syndrome. Parents and Researchers Interested in Smith-Magenis Syndrome (PRISMS) Summer Research Project Grant. Role: Co-PI. Funded: \$4,000.
- 2025 Language and social-communication phenotype of Smith-Magenis Syndrome (SMS) and identification of factors that influence functional communication and socialization outcomes. NIH R21 resubmission. First-round scored 27th percentile. Second-round, not discussed. Role: PI.
- 2012-2013 Joseph Levin Foundation Scholarship. Role: Graduate student researcher. Funded: tuition (\$42,000).
- 2009-2011 Ruth L. Kirschstein NRSA Institutional Research T32 Training Grant from the NIDCD (T32 DC009399-01A10). Role: Graduate student researcher. Funded: tuition (~\$40,000 per year).

INTERNAL GRANTS

- 2025 Empowering economically disadvantaged adolescents with complex communication needs, University of Colorado Boulder Outreach Award. Role: Co-PI. Funded: \$24,000.
- 2025 Exploring Language in Smith Magenis Syndrome: The SMS Radio Project. University of Colorado Boulder Division of Social Sciences Catalyst Grants. Role: PI. Funded: \$15,000.
- 2024 Creating a model cognitive-communication intervention for individuals with brain tumors following radiotherapy. Albert Smith Survival of Man in the Nuclear Age Fund. Role: Co-PI. Funded: \$9,984.
- 2024 Empowering economically disadvantaged adolescents with complex communication needs. University of Colorado Boulder Outreach Award. Role: Co-PI. Funded: \$24,000.
- 2023 Empowering economically disadvantaged adolescents with complex communication needs, University of Colorado Boulder Outreach Award. Role: Co-PI. Funded: \$24,000.
- 2022 Comparison of language abilities in children with Smith-Magenis Syndrome (SMS) who have the common genetic deletion versus the RAI1 variant of SMS. University of Colorado Boulder Center to Advance Research and Teaching in the Social Sciences. Role: PI. Funded: \$4,100.
- 2021 Empowering economically disadvantaged adolescents with complex communication needs, University of Colorado Boulder Outreach Award. Role: Co-PI. Funded: \$21,900.
- 2020 Empowering economically disadvantaged adolescents with complex communication needs, University of Colorado Boulder Outreach Award. Role: Co-PI. Funded: \$12,000.
- 2019 Empowering economically disadvantaged adolescents with complex communication needs, University of Colorado Boulder Outreach Award. Role: Co-PI. Funded: \$9,000.
- 2015 Neural organization of speech sound representation in children with and without dyslexia. University of Colorado Boulder Center to Advance Research and Training in the Social Sciences (CARTSS) Faculty Project Award. Role: PI. Funded: \$1,500.
- 2014 Hierarchical organization of the human auditory cortex: Evidence of a gradient for phonological grain size sensitivity. Cognitive Neuroscience Society Graduate Student Award: Role: Graduate student researcher. Funded: \$1,000.
- 2011 Method of reading instruction fosters processing speed and sensitivity to orthographic grain size. Northwestern University Graduate School Travel Grant (International Mind, Brain and Education Society Conference). Role: Graduate student researcher. Funded: \$1,000.
- 2010 Differences in the neural substrate for reading English and Chinese emerges over development Northwestern University Graduate School Travel Grant (Human Brain Mapping Conference). Role: Graduate student researcher. Funded: \$1,000.

AWARDS

- 2023 Outstanding Faculty Mentor. University of Colorado Boulder, Undergraduate Research Opportunities Program (UROP).
- 2022 Outstanding Faculty Mentor, Honorable Mention, University of Colorado Boulder, Undergraduate Research Opportunities Program (UROP).
- 2021 Outstanding Faculty Mentor Award. University of Colorado Boulder Graduate School.
- 2020 Outstanding Faculty Mentor, Honorable Mention, University of Colorado Boulder, Undergraduate Research Opportunities Program (UROP).
- 2019 NSSLHA Faculty of the Year Award. University of Colorado Boulder, Department of Speech, Language, and Hearing Sciences.

PEER-REVIEWED PUBLICATIONS (* indicates graduate student author, ^ indicates undergraduate student author, + indicates equal contributions to the research)

PUBLISHED OR IN PRESS

1. *Eagen, C.M., *Brennan, C., & *Hilger, A.I. (2025). The impacts of testosterone therapy beyond fundamental frequency in transmasculine voice: Vocal quality and fricative articulation. *Journal of Voice*. <https://doi.org/10.1016/j.jvoice.2025.06.005>
2. Brennan, C. & ^Heneman, E. A. (2025). Differential benefits of small, medium, and large grain instruction for English-speaking adults learning to read Hangul. *Asian-Pacific Journal of Second and Foreign Language Education*, 10, 41. <https://doi.org/10.1186/s40862-025-00348-7>
3. *Esver, M., *Cloud, C., Hillger, A., & Brennan, C. (2025). Revisiting the cerebellum's linguistic role: Evidence for cerebellar involvement in expressive syntax. *The Cerebellum*, 24(5), 126. <https://doi.org/10.1007/s12311-025-01879-y>
4. *Allen, A.K., Brennan, C., Riseman, C, Kleiber, H., & Hilger, A. I. (2025). Harnessing AI for aphasia: A case report on ChatGPT's role in supporting written expression. *Frontiers in Rehabilitation Sciences*, 6, 1600145. <https://doi.org/10.3389/fresc.2025.1600145>
5. *Chung, A., Brennan, C., Glick, H., & Baiduc, R. R. (2025). Acute comparison of mild-gain hearing aid approaches in an adult with mTBI and long-term effects of mild gain amplification on speech perception in noise and self-reported hearing related disability, hyperacusis, and quality of life. *American Journal of Audiology*, 34(1), 1-12. https://doi.org/10.1044/2024_AJA-24-00138
6. Brennan, C., ^Matthews, A. & Tennant, S. (2024). Successful use of an eye gaze AAC communication board by a young adult with advanced Sanfilippo Syndrome (MPS IIIA): Case Report. *Therapeutic Advances in Rare Diseases*, 5. <https://doi.org/10.1177/26330040241275672>
7. Brennan, C. & Baiduc, R. (2024). Overlapping hearing and communication profiles for the deletion and the RAI1 variant form of Smith-Magenis Syndrome (SMS). *Journal of Communication Disorders*, 111, 106455. <https://www.sciencedirect.com/science/article/abs/pii/S0021992424000510>
8. Brennan, C., *Spence-Olson, M., *Cormier, K., Tennant, S., & Sharma, A. (2024). Person-centered aural rehabilitation program improved mood, cognition, and auditory processing in a professional musician who uses a hearing aid and cochlear implant: Case Report. *Frontiers in Rehabilitation Sciences*, 5, 1399424. <https://doi.org/10.3389/fresc.2024.1399424>
9. Brennan, C., ^Smith, M.L., Baiduc, R.R., & *O'Connor, L. (2024). Speech, language, hearing, and otopathology results from the International Smith-Magenis Syndrome (SMS) Patient Registry. *Journal of Speech, Language, and Hearing Research*, 67(3), 917-938. https://doi.org/10.1044/2023_JSLHR-23-00179
10. Kan, P. F., Yim, D., & Brennan, C. (2024). Exploring the interplay of semantic knowledge in bilingual children: Heritage language and second language. *Frontiers in Language Sciences*, 3, 1325344. <https://doi.org/10.3389/flang.2024.1325344>
11. *Cormier, K., Brennan, C., & Sharma, A. (2024). Hearing loss and psychosocial outcomes: Influences of social emotional aspects and personality. *PLoS ONE*, 19(6), e0304428. <https://doi.org/10.1371/journal.pone.0304428>
12. Brennan, C., *Hannah, A., ^Romick, J., Walentas Lewon, J., & Meyers, C. (2022). Differences and similarities in the perception of voice gender for individuals who are or are not members of the LGBT+ community. *Journal of Voice*, 39(3). <https://doi.org/10.1016/j.jvoice.2022.11.020>
13. Brennan, C., *Weintraub, H., Tennant, S., Myers, C. N. (2021). Speech, language, and communication deficits and intervention in a single case of pediatric autoimmune encephalitis. *American Journal of Speech-Language Pathology*, 30(6), 2350-2367. https://doi.org/10.1044/2021_AJSLP-20-00395

14. **Brennan, C.** & *Kiskin, J. (2019). Distinct benefits given large versus small grain orthographic instruction for English-speaking adults learning to read Russian Cyrillic. *Journal of Psycholinguistic Research*, 49(6), 915-933. <https://doi.org/10.1007/s10936-019-09684-5>
15. Osnes, B., *Hackett, C., Walentas Lewon, J., Baján, N., & **Brennan, C.** (2019). Vocal empowerment curriculum for young Maya Guatemalan women. *Theatre, Dance and Performance Training*, 10(3), 313-331. <https://doi.org/10.1080/19443927.2019.1637371>
16. Wolk, L., Edwards, M. L., & **Brennan, C.** (2016). Phonological difficulties in children with autism: An overview. *Speech, Language and Hearing*, 19(2), 121-129. <https://doi.org/10.1080/2050571X.2015.1133488>
17. Cao, F., **Brennan, C.**, & Booth, J. R. (2015). The brain adapts to orthography with experience: evidence from English and Chinese. *Developmental Science*, 18(5), 785-798. <https://doi.org/10.1111/desc.12245>
18. **Brennan, C.** & Booth, J. R. (2015). Large grain instruction and phonological awareness skill influence rime sensitivity, processing speed, and early decoding skill in adult L2 learners. *Reading and Writing*, 28(7), 917-938. <https://doi.org/10.1007/s11145-015-9555-2>
19. Wolk, L., & **Brennan, C.** (2013). Phonological investigation of speech sound errors in children with autism spectrum disorders. *Speech, Language and Hearing*, 16(4), 239-246. <https://doi.org/10.1179/2050572813Y.0000000020>
20. **Brennan, C.**, Cao, F., Pedroarena-Leal, N., McNorgan, C., & Booth, J. R. (2013). Reading acquisition reorganizes the phonological awareness network only in alphabetic writing systems. *Human Brain Mapping*, 34(12), 3354-3368. <https://doi.org/10.1002/hbm.22147>
21. Cao, F., Khalid, K., Lee, R., **Brennan, C.**, Yang, Y., Li, K., Bolger, D.J. & Booth, J.R. (2011). Development of brain networks involved in spoken word processing of Mandarin Chinese. *NeuroImage*, 57(3), 750-759. <https://doi.org/10.1016/j.neuroimage.2010.09.047>
22. Bray, D., **Brennan, C.**, Rabe, H., and Shwarz, A. (2003). Best practices for students with autism. *Perspectives on School-Based Issues*, 4(2), 21-24. <https://doi.org/10.1044/lle10.2.21>

PEER-REVIEWED PUBLICATIONS IN PREPARATION (data collection complete, writing in progress)

1. *Laff, E., **Brennan, C.**, Baiduc, R. R., & Tucker, K. M. (in preparation). Literacy characteristics of individuals with Smith-Magenis Syndrome (SMS) and the relationship between communication using natural speech and literacy abilities.
2. **Brennan, C.**, ^Amaral, M. B., Baiduc, R. R., & Yun, D. (in preparation). Sensorineural hearing loss temporarily exacerbated by deep vein thrombosis (DVT): A Case Study.
3. **Brennan, C.** & Tennant, S. (in preparation). Effective AAC training of graduate students and educators: Outcomes from the CU Boulder AAC outreach project.
4. **Brennan, C.** & Tennant, S., *Cantor, M., *Olmsted, S., *Propst, A., & *Reust, K. (in preparation). Better AAC outcomes for adolescents with complex communication needs given parental and educator training and involvement.

BOOK CHAPTERS

1. Smith, A.C.M., Berens, J. Boyd, K.E., **Brennan, C.**, Charles, J., Elsea, S.H., Finucane, B.M., Foster, R., Gropman, A., Haas-Givler, B., Vlangnos, C., Foster, R., Franciskovich, R., Girirajan, S., Lee, N. R., Taylor, C., Turnacioglu, S.O., & Elsea, S.H. (2025). *Smith-Magenis Syndrome*. In: Adam MP, Feldman, J., Mirzaa, G.M., et al., editors. GeneReviews® [Internet]. Seattle (WA): University of Washington, Seattle; 1993-2025. Available from: <https://www.ncbi.nlm.nih.gov/books/NBK1310/>

2. Smith, A.C.M., Boyd, K.E., **Brennan, C.**, Charles, J., Elsea, S.H., Finucane, B.M., Foster, R., Gropman, A., Girirajan, S., and Haas-Givler, B. (2022). *Smith-Magenis Syndrome*. In: Adam MP, Ardinger, H.H., Pagon, R.A., et al., editors. GeneReviews® [Internet]. Seattle (WA): University of Washington, Seattle; 1993-2019. Available from: <https://www.ncbi.nlm.nih.gov/books/NBK1310/>
3. **Brennan, C.** (2021). Learning disabilities. In J. S. Damico, N. Müller, & M. J. Ball (Eds.). *The handbook of language and speech disorders* (2nd ed., pp 205-232). West Sussex: Wiley-Blackwell.

INVITED PUBLICATIONS – PEER REVIEW BY ORGANIZATIONAL PROFESSIONAL ADVISORY BOARD

1. Haas-Givler, B., Boyd, K., **Brennan, C.**, Beall, M., Hildebrand, H., Taylor, C. M., & Foster, R. H. (2024). Strategies to address emotional and behavioral challenges in Smith-Magenis Syndrome (SMS). *PRISMS Clinic and Research Consortium*. <https://www.prisms.org/education/publications-and-resources/prisms-behavior-guidelines>
2. Smith, A. C. M., Boyd, K. E., **Brennan, C.**, & Charles, J. (2018). Medical management guidelines for an individual diagnosed with SMS. *PRISMS Clinic and Research Consortium*. Retrieved from https://www.prisms.org/wp-content/uploads/pdf/mmg/PRISMS_Medical_Management_Guidelines2018.pdf

INVITED PUBLICATIONS – PUBLISHED (NOT PEER-REVIEWED)

1. **Brennan, C.** (2020, September 17). Telepractice versus in-person speech-language therapy for individuals with Smith-Magenis Syndrome (SMS) – A Pandemic Survey Study. PRISMS Blog. <https://www.prisms.org/telepractice-survey-study-report>
2. **Brennan, C.** & ^Vacek, L. (2020, April 28). Addressing speech, language, and communication needs in individuals with SMS during the Covid-19 Pandemic. PRISMS Blog. <https://www.prisms.org/sms-speech-language-needs-covid>
3. **Brennan, C.** (2018, February 4). Ideas for speech therapy. PRISMS Blog. <https://www.prisms.org/ideas-for-speech-therapy>
4. **Brennan, C.** (2008). Speech therapy ideas for school-age children with Smith-Magenis Syndrome. *Spectrum*, 12(1), 4-5.
5. **Brennan, C.** (2007). Speech therapy ideas for parents & therapists. *Spectrum*, 11(3), 11-13.

PRESENTATIONS

PEER-REVIEWED PRESENTATIONS (*indicates graduate student, ^indicates undergraduate students)

1. **Brennan, C.** (2015, November). Translating Research into Practice: Enhancing Communication Outcomes in Smith-Magenis Syndrome (SMS) and Neurodivergent Populations. American Speech-Language Hearing Association National Convention, Washington, D.C.
2. Tennant, S., Riseman, C., & **Brennan, C.** (2025, October). Restoring Voices: Advancing Evidence-based AAC Methods for Progressive Conditions. Colorado Speech-Language Hearing Association State Convention, Parker, Colorado.
3. **Brennan, C.** & Kan, Pui Fong. (2025, April). Navigating AI in CSD Programs: Developing Critical Thinking and Ethical Use of AI Tools. Council on Academic Programs in Communication Sciences and Disorders, Atlanta, Georgia.
4. *Allen, A., **Brennan, C.**, & Riseman, C. (2024, November). ChatGPT as an Effective Tool for Improving Written Output for a Patient with Aphasia. American Speech-Language Hearing Association National Convention, Seattle, Washington.
5. **Brennan, C.** & Baiduc, R. (2024, November). Comparison of Language and Hearing in Smith-Magenis Syndrome Due to Genetic Deletion Versus Mutation. American Speech-Language Hearing Association National Convention, Seattle, Washington.

6. *Eagen, C., **Brennan, C.**, Hilger, A., & Lewon, J.W. (2024, November). American Speech-Language Hearing Association National Convention, Seattle, Washington.
7. **Brennan, C.**, Kleiber, H., & Lemke, A. (2024, November). Elevating Portfolio-Based Comprehensive Exams: Components, Procedures, and Faculty/Student Outcomes and Feedback. American Speech-Language Hearing Association National Convention, Seattle, Washington.
8. **Brennan, C.** (2024, July). Slight differences with similar language profiles in individuals with Smith-Magenis Syndrome (SMS) due to a genetic deletion versus a mutation of the RAI1 gene. PRISMS (Parents and Researchers Interested in Smith-Magenis Syndrome) Research Symposium, Dallas, Texas.
9. **Brennan, C.** (2024, May). Slight differences with similar language profiles in individuals with Smith-Magenis Syndrome (SMS) due to a genetic deletion versus a mutation of the RAI1 gene. Symposium for Research in Child Language Disorders, Madison, Wisconsin.
10. **Brennan, C.**, Lemke, A., Kleiber, H., Lewon, J., Meyers, C., Pollard, R., Kan, P.F., *Conkey, E., *Hardy, A., *Laff, E., *Ubieta, C. (2024, April). University of Colorado's Portfolio-Based Comprehensive Exam: Components, Procedures, and Faculty/Student Outcomes. Council on Academic Programs in Communication Sciences and Disorders, New Orleans, Louisiana.
11. Tennant, S., **Brennan, C.**, *Campos, A., *Chavez, M., *Marsh, M., *Navarrete, S., *Soderholm, E. C. (2023, February). CU's AAC Outreach Project for Adolescents with Complex Communication Needs. Assistive Technology Industry Association, Orlando, Florida.
12. ^Matthews, A. & **Brennan, C.** (2023, February). Efficacy of an Eye-Gaze AAC System for a Young Adult with Sanfilippo Syndrome/MPS III. Assistive Technology Industry Association, Orlando, Florida.
13. *Spence-Olson, M. & **Brennan, C.** (2022, November). A Home Practice Program Targeting Music Enjoyment for a Musician who Uses Bimodal Listening Technology. American Speech-Language Hearing Association National Convention, New Orleans, Louisiana.
14. ^Matthews, A. & **Brennan, C.** (2022, November). Efficacy of an Eye-Gaze AAC System for a Young Adult with Sanfilippo Syndrome/MPS III. American Speech-Language Hearing Association National Convention, New Orleans, Louisiana.
15. *Spence-Olson, M., *Cormier, K., Sharma, A., Kan, P.F., Tennant, S., & **Brennan, C.** (2022, October). A Home Practice Program Targeting Music Enjoyment for a Musician who Uses Bimodal Listening Technology. Colorado Speech-Language Hearing Association National Convention, Parker, Colorado.
16. ^Matthews, A., ^O'Hara, C., & **Brennan, C.** (2022, October). Efficacy of an Eye-Gaze AAC System for a Young Adult with Sanfilippo Syndrome/MPS III. Colorado Speech-Language Hearing Association National Convention, Parker, Colorado.
17. **Brennan, C.** (2021, November). Speech, Language, and Communication Profile of Individuals with Smith-Magenis Syndrome (SMS): SMS Patient Registry Results. American Speech-Language Hearing Association National Convention, Washington, D.C.
18. **Brennan, C.**, Tennant, S., *Weintraub, H., & Meyers, C.M. (2021, November). Speech, Language, and Communication Deficits and Intervention in a Single Case of Pediatric Autoimmune Encephalitis. American Speech-Language Hearing Association National Convention, Washington, D.C.
19. Tennant, S., **Brennan, C.**, Lents, K., *Johnson, K., Cloud, C., *Salazar, V., *Pielke, M., *Capra, E., & *Foster, L. (2021, November). CU's AAC Outreach Project for Adolescents with Complex Communication Needs: Intervention & Family Training. American Speech-Language Hearing Association National Convention, Washington, D.C.

20. Tennant, S., **Brennan, C.**, Meyers-Denman, C., Johnson, K., Kellem, J., Lents, K., *Cloud, C., Williams, M., *Hoag, K., *Petty, L. (2020, November). Colorado's AAC Outreach Project for Adolescents with Complex Communication Needs: Assessment, Intervention and Professional Development. Proposal accepted at the Annual Convention of the American Speech-Language-Hearing Association, San Diego, California (Convention canceled).
21. **Brennan, C.**, & *Horowitz, C. (2020, November). Improved Reading Outcomes using an Independent Word Journaling Strategy in an Adult with Developmental Dyslexia. Proposal accepted at the Annual Convention of the American Speech-Language-Hearing Association, San Diego, California (Convention canceled).
22. *Pepper, K., **Brennan, C.**, & Pollard, R. (2020, November). Does Bedside Manner Matter? The Role of Counseling in Speech-Language Pathology. Proposal accepted at the Annual Convention of the American Speech-Language-Hearing Association, San Diego, California (Convention canceled).
23. ^Bartolo, S. & **Brennan, C.** (2019, November). The relationship between phonological awareness skill and socioeconomic status when granularity and lexicality are considered. American Speech-Language Hearing Association National Convention, Orlando, Florida.
24. *Clerkin, C., *Pepper, K., & **Brennan, C.** (2018, November). Does bedside manner matter? Delivery preferences for speech & language diagnoses. American Speech-Language Hearing Association National Convention, Boston.
25. *Hannah, A. & **Brennan, C.** (2018, November). Perception of voice gender by members of the LGBT+ community. American Speech-Language Hearing Association National Convention, Boston, Massachusetts.
26. ^Heneman, H. & **Brennan, C.** (2018, November). A comparison of large versus small grain instruction for English-speaking adults learning to read Hangul. American Speech-Language Hearing Association National Convention, Boston, Massachusetts.
27. *Kiskin, J. & **Brennan, C.** (2018, November). Learning outcomes for large versus small grain orthographic instruction in L2 learners of Russian Cyrillic. American Speech-Language Hearing Association National Convention, Boston, Massachusetts.
28. *Park, Y., *Wade, K., **Brennan, C.**, & Tennant, S. (2018, November). Trisomy 8 Mosaicism: A school-age case study in AAC intervention. American Speech-Language Hearing Association National Convention, Boston, Massachusetts.
29. ^Vacek, L. & **Brennan, C.** (2018, November). The relationship between reading & phonological skill in adults with a range of reading abilities. American Speech-Language Hearing Association National Convention, Boston, Massachusetts.
30. *Weintraub, H., Tennant, S., & **Brennan, C.** (2018, November). A case study & review of pediatric autoimmune encephalitis, PANDAS, & ASD. American Speech-Language Hearing Association National Convention, Boston, Massachusetts.
31. **Brennan, C.** (2018, July). A talk for teens and adults with SMS – communication in school, work, and your social life. PRISMS (Parents and Researchers Interested in Smith-Magenis Syndrome) 10th International SMS Conference, Pittsburg, Pennsylvania.
32. **Brennan, C.** (2018, July). Language intervention strategies for children with Smith-Magenis Syndrome. PRISMS (Parents and Researchers Interested in Smith-Magenis Syndrome) 10th International SMS Conference, Pittsburg.
33. **Brennan, C.** (2018, July). Curbside consultants: Speech and language issues for children and adults with Smith-Magenis Syndrome. PRISMS (Parents and Researchers Interested in Smith-Magenis Syndrome) 10th International SMS Conference, Pittsburg, Pennsylvania.

34. *Newman, J. & **Brennan, C.** (2017, November). Working memory: The effects of familiar melody presentation versus spoken presentation on novel word learning. American Speech-Language Hearing Association National Convention, Los Angeles, California.
35. *Mellman, H. & **Brennan, C.** (2017, November). The relationship between reading skill & performance on a phonological grain size matching task. American Speech-Language Hearing Association National Convention, Los Angeles, California.
36. *Heller, S. & **Brennan, C.** (2016, November). Large and small grain phonological detection correlates with reading skill. American Speech-Language Hearing Association National Convention, Philadelphia, Pennsylvania.
37. **Brennan, C.** & Booth, J. (2016, November). Phonological grain size sensitivity in auditory cortex is related to reading skill. American Speech-Language Hearing Association National Convention, Philadelphia, Pennsylvania.
38. **Brennan, C.** & Booth, J. (2016, June). Phonological grain size sensitivity in auditory cortex is related to reading skill. Human Brain Mapping Conference, Geneva, Switzerland.
39. **Brennan, C.** & Booth, J. (2014, April). Hierarchical organization of the human auditory cortex: Evidence of a gradient for phonological grain size sensitivity. Cognitive Neuroscience Society, Boston, Massachusetts.
40. **Brennan, C.**, Cao, F., Pedroarena-Leale, N., McNorgan, C., & Booth, J. (2012, April). Learning to read reorganizes the oral language network only in alphabetic writing systems. Cognitive Neuroscience Society, Chicago, Illinois.
41. **Brennan, C.** & Booth, J. (2011, May). Method of reading instruction fosters processing speed and sensitivity to orthographic grain size. International Mind Brain Education Conference, San Diego, California.
42. **Brennan, C.**, Cao, F. Booth, J. (2010, June). Differences in the neural substrate for reading English and Chinese emerges over development. Human Brain Mapping Conference, Barcelona, Spain.
43. **Brennan, C.** (2008, November). Whole brain theory: applications in language intervention. American Speech Language Hearing Association National Convention, Chicago, Illinois.
44. **Brennan, C.**, Wolk, L., & Edwards, M. (2008, November) Autism: integrative treatment for children with autism & phonological impairment. ASHA Annual Convention, Chicago, Illinois.
45. Wolk, L., **Brennan, C.**, & Edwards, M. (2008, November). Speech production difficulties in autism: research update & clinical implications. ASHA Annual Convention, Chicago, Illinois.
46. **Brennan, C.** & Wolk, L. (2007, November). Speech production disorders in autism: approaches for Evaluation and Intervention. American Speech-Language Hearing Association National Convention, Boston, Massachusetts.
47. **Brennan, C.** (2006, November). Issues in four individuals with agenesis of the corpus callosum. American Speech- Language Hearing Association National, Miami, Florida.
48. **Brennan, C.** (2006, June). Language and communication deficits in Smith-Magenis Syndrome. Symposium for Research in Child Language Disorders, Madison, Wisconsin.

INVITED PRESENTATIONS

1. **Brennan, C.** (2024, July). Introduction to & successful use of AAC. PRISMS (Parents and Researchers Interested in Smith-Magenis Syndrome) International Conference, Dallas, Texas.
2. **Brennan, C.** (2024, July). Addressing Speech-Language and Social Communication Needs of Children & Adults w/ SMS. PRISMS (Parents and Researchers Interested in Smith-Magenis Syndrome) International Conference, Dallas, Texas.

3. **Brennan, C.**, Russell, L., & Gorman, C. (2023, March). Addressing Speech-Language and Social Communication Needs of Children & Adults with Smith-Magenis Syndrome (SMS). The Speech and Hearing Discussion Group of the Greater Metropolitan Area, Washington, D.C.
4. **Brennan, C.**, ^Smith, M. L., *O'Connor, L. (2022, August). SMS patient registry results: Speech-language development and hearing health. Parents and Researchers Interested in Smith-Magenis Syndrome (PRISMS). Dallas, Texas.
5. **Brennan, C.** (2020, September). Cortical network activation associated with typical and impaired reading. New York Communication Disorders Colloquium Series (NYCDCS), online.
6. **Brennan, C.** (2019, November). Sensitivity of the superior temporal cortex to phonological grain size in speech is related to reading skill. Adelphi University Distinguished Lecture Series Fall 2019, Garden City, New York.
7. **Brennan, C.** (2019, April). Phonological awareness and reading in adults: L2 orthographic learning and L1 reading skill. Hofstra University 2019 Spring Research Seminar, Hempstead, New York.
8. **Brennan, C.** (2017, July). fMRI mapping of the auditory cortex related to reading experience, skill, and impairment. Frontiers in Hearing Symposium - Auditory Development and Disorders. Estes Park, Colorado.
9. **Brennan, C.** (2016, October). Neurophysiology of Dyslexia. Wyoming State Speech Language Hearing Association (WSHA) Convention, Casper, Wyoming.
10. **Brennan, C.** (2016, October). The role of the auditory cortex in speech sound processing and literacy acquisition. Ohio State Speech-language Pathologist and Educational Audiologists Consortium (OSSPEAC), Columbus, Ohio.
11. **Brennan, C.** (2016, January). Phonological grain size sensitivity in auditory cortex is related to reading skill. Institute of Cognitive Science (ICS), University of Colorado, Boulder.
12. **Brennan, C.** (2015, October). Organization of the Human Auditory Cortex: The Role of phonological grain size and syllable boundaries. MRI Users Meeting, University of Colorado, Boulder.
13. **Brennan, C.** (2014, July). The relationship between communication and behavior in children with SMS: Strategies for speech & language Intervention. PRISMS Conference, St. Louis, Missouri.
14. **Brennan, C.** (2014, July). A Talk for Teens and Adults with SMS: Communication in School, Work, and Your Social Life. PRISMS Conference, St. Louis, Missouri.
15. **Brennan, C.** (2014, March). Grain size influences reading acquisition and the neural bases of speech processing. Department of Communicative Disorders, San Francisco State University. San Francisco, California.
16. **Brennan, C.** (2013, March). Grain size influences reading acquisition and the neural bases of speech processing. Speech Pathology, Midwestern University, Downers Grove, Illinois.
17. **Brennan, C.** (2012, October). Reading acquisition reorganizes the phonological awareness network only in alphabetic writing systems. Beckman Institute, University of Illinois, Champaign-Urbana, Illinois..
18. **Brennan, C.** (2012, June). How addressing specific communication needs can foster more appropriate behavior: Speech therapy strategies for children and adults. PRISMS Conference, Denver, Colorado.
19. **Brennan, C.** (2012, May). Reading acquisition reorganizes the phonological awareness network only in alphabetic writing systems. Northwestern University Cognitive Brain Mapping Group, Chicago, Illinois.
20. **Brennan, C.** (2011, November). Method of reading instruction fosters processing speed and sensitivity to orthographic grain size. Northwestern University CSD Qualifying Research Project Defense, Evanston, Illinois.

21. **Brennan, C.** (2011, September). Learning to read reorganizes the oral language network only in alphabetic writing systems. Northwestern University CSD Department Data Blitz, Chicago, Illinois.
22. **Brennan, C. & Van Santen, C.** (2011, January). Subtypes of reading disability (dyslexia). Northwestern University CSD Department Translational Research Presentation, Evanston, Illinois.
23. **Brennan, C.** (2010, October). Whole brain strategies for children & adults: applying current research findings to clinical practice. Iowa State Speech-Language Hearing Association, Iowa City, Iowa.
24. **Brennan, C.** (2010, September). Developmental differences in the neural substrate for reading English and Chinese. Northwestern University CSD Department Data Blitz, Evanston, Illinois.
25. **Brennan, C.** (2009, September). Addressing communication deficits in young children with Smith-Magenis Syndrome. PRISMS Conference, Reston, Virginia.
26. **Brennan, C.** (2009, February). Apraxia vs. phonological disorders: approaches for evaluation and intervention. Virginia State Speech-Language Hearing Association Annual Convention, Richmond, Virginia.
27. **Brennan, C.** (2009, January). Management of deficits in executive function: diagnostic & intervention strategies. Capernaum Pediatric Therapy, Inc., Minneapolis, Minnesota.
28. **Brennan, C.** (2008, October). The neurology of memory: impact on language and learning in children and adults. Tennessee Association of Audiologists and Speech-Language Pathologists Annual Convention, Nashville, Tennessee.
29. Burns, M. & **Brennan, C.** (2007, May). Autism Certification Course, Seattle, Washington.
30. **Brennan, C.** (2006, October). Whole brain theory: applications in language intervention. Tennessee Association of Audiologists and Speech-Language Pathologists Annual Convention, Nashville, Tennessee.
31. **Brennan, C.** (2006, September). CAPD versus ADHD. Kansas State Speech Language Association Annual Convention, Wichita, Kansas.
32. **Brennan, C.** (2005, October). The neurology of memory: impact on language and learning. North Dakota State Speech-Language Hearing Association Annual Convention, Fargo, North Dakota.
33. **Brennan, C.** (2005, March). CAPD versus ADHD. Kentucky State Speech Language Association Annual Convention, Louisville, Kentucky.
34. **Brennan, C.** (2004, October). Whole brain theory: applications in language intervention. North Dakota State Speech-Language Hearing Association Annual Convention, Minot, North Dakota.

TEACHING

2015-present Assistant Professor, University of Colorado Boulder
 Department of Speech, Language, and Hearing Sciences

Graduate courses taught:

Neuroanatomy and Neurophysiology of Communication
 Acquired Language Disorders in Adults
 Language Disorders & Language Learning Disabilities in School-Age Children
 Clinical Counseling in Speech-Language Pathology

Undergraduate courses taught:

Communication Neuroscience
 Science of Human Communication
 Anatomy, Physiology, and Speech Science

- 2014-2015 Visiting Assistant Professor, Northwestern University
Department of Communication Sciences and Disorders
- Graduate-level courses taught:
- Language Disorders (Assessment and Intervention)
 - Overview of Language Disorders I
 - Overview of Language Disorders II
 - Motor Development and Learning
 - Neuromotor Speech Disorders
 - Evidence Based Practice
 - Phonological and Articulation Disorders in Children
 - Advanced Treatment of Articulation and Phonological Disorders Seminar
 - Diagnostic Procedures
- Undergraduate-level courses taught:
- Clinical Assisting (Introduction to Clinical Methods)
 - Typical and Atypical Development in Toddlers
 - The Scientific Exploration of Communication
- 2007 Lecturer, Northern Illinois University
School of Allied Health and Communicative Disorders
- Course taught:
- Introduction to Developmental Speech and Language Disorders (undergrad)

CLINICAL SUPERVISION

- 2004, 2006, 2008 ASHA SLP Clinical Fellowship Supervisor
- 2004-2008 Northwestern University, SLP Externship Clinical Supervisor at Brennan & Burns, LLC

TEACHING INTERESTS

Developmental Cognitive Neuroscience, Communication Neuroscience, Neuroscience of Language and Reading, Neurophysiology of Learning Disabilities, Assessment and Intervention of Developmental Disorders of Language and Reading, Assessment and Intervention of Language Impairment in Children, Language Disorders in Adults, Autism Spectrum Disorders, Language Science

STUDENT RESEARCH ADVISING

Master's Thesis Primary Advisor

1. Grace Werlin (MA-SLP in progress, anticipated in 2027)
2. Sierra Palian (MA-SLP in progress, anticipated in 2027)
3. Avery Allen (MA-SLP awarded in 2025)
4. Emily Laff (MA-SLP awarded in 2024)
5. Collin Eagen (MA-SLP awarded in 2024)
6. McKenna Spence-Olson (MA-SLP awarded in 2023)
7. Vincent Salazar (MA-SLP awarded in 2022)
8. Katelyn Pepper (MA-SLP awarded in 2019)
9. Katherine Bode (MA-SLP awarded in 2019)
10. Annaliese Hannah (MA-SLP awarded in 2019)
11. Haley Weintraub (MA-SLP awarded in 2019)
12. Jennifer Kiskin (MA-SLP awarded in 2018)
13. Suzanne Heller (MA-SLP awarded in 2017)
14. Hannah Mellman (MA-SLP awarded in 2017)
15. Jenah Newman (MA-SLP awarded in 2017)

Master's Thesis Committee Member

1. Karen Arrendondo (Lozano) (MA-SLP awarded in 2025)
2. Caitlin Cain (MA-SLP awarded in 2025)
3. Richard Hayes, Jr. (MA-SLP awarded in 2025)
4. Mary Vang (MA-SLP awarded in 2025)
5. Karina Navarro (MA-SLP awarded in 2024)
6. Melanie Esver (MA-SLP awarded in 2023)
7. Virginia Perng (MA-SLP awarded in 2019)
8. Joceyln Su (MA-SLP awarded in 2019)
9. Alyssa Yee (MA-SLP awarded in 2017)

Undergraduate Senior Honors Thesis Primary Advisor (*also served as SLHS Senior Honors Council Representative)

1. John Radney (Interdisciplinary thesis, BA in LING anticipated in 2026)
2. Vanessa Silveira (BA in SLHS anticipated in 2026)
3. Natalie Braithwaite (BA in SLHS anticipated in 2026)
4. Mayara Bryant Amaral (BA in SLHS awarded in 2024)
5. *Abigail Matthews (BA in SLHS awarded in 2023)
6. Mara Smith (BA in SLHS awarded in 2022)
7. Samantha Bartolo (BA in SLHS awarded in 2020)
8. Emily Henneman (BA in SLHS awarded in 2019)
9. Laura Vacek (BA in SLHS awarded in 2019)

Undergraduate Senior Honors Thesis Committee Member (*also served as SLHS Senior Honors Council Representative)

1. Paige Clippert (BA in SLHS awarded in 2024)
2. Hannah Jewell Gebhardt (BA in Psychology and Neuroscience, anticipated in 2023)
3. *Adrienne J. Propst (BA in SLHS awarded in 2023)
4. Evi R. Judge (BA in Linguistics and SLHS awarded in 2022)
5. Chloe Tucker (BA in Psychology awarded in 2020)
6. Anna M. Miller (BA in SLHS awarded in 2020)
7. Emily Valdez (BA in Psychology awarded in 2017)

Doctor of Audiology Capstone Committee Member

1. Acayla Chung (AuD in progress)

Doctoral Thesis Committee Member

1. Kayla Cormier (Ph.D. in SLHS in progress)
2. Carly Schimmel (Ph.D. in SLHS in progress)
3. Donald Bell-Souder (Ph.D. in SLHS awarded in 2025)
4. Jamal A. Khlifat (Ph.D. in SLHS awarded in 2025)
5. Shannon McNight (Ph.D. in Cognitive Psychology and Cognitive Science awarded in 2022)
6. Shirley Huang (Ph.D. in SLHS awarded in 2022)
7. Hannah Glick (Ph.D. in SLHS, Behavioral Neuroscience, and Cognitive Science awarded in 2019)
8. Marcia Walsh (Ph.D. in SLHS awarded in 2018)
9. Daniel Haught (Ph.D. in SLHS awarded in 2016)
10. Andrew Reinberg (Ph.D. in Neuroscience and Cognitive Psychology awarded in 2016)

PROFESSIONAL AND RESEARCH AFFILIATIONS

American Speech-Language Hearing Association (ASHA)
Colorado Speech-Language Hearing Association (CSHA)
Parents and Researchers Interested in Smith-Magenis Syndrome (PRISMS)
Human Brain Mapping (HBM)
Cognitive Neuroscience Society (CNS)
International Mind, Brain, & Education Society (IMBES)

SERVICE

Service to SLHS Department (* indicates leadership roles)

- * MA-SLP Committee Chair (2024-present)
- * SLP CAA (Council on Academic Accreditation) Program Director (2023-present)
- * SLHS Coordinator of Undergraduate Study/Undergraduate Committee Chair (2020-2023, and summer/fall 2025 coverage during colleague's family leave)
- SLHS Executive Committee (2017-present, as ex officio from 2021-2022)
- MA-SLP Committee (2016-present)
- MA-SLP Comprehensive Exams Committee (2015-present)
- MA-SLP Admissions Committee (2015-present)
- SLHS Tenure Track Search Committee (2023-2024)
- Merit Committee (2021-2023)
- SLHS Undergraduate Committee (2015-2016 and 2020-2023)
- ASL Instructor Search Committee (2022)
- The Barbara Lynn Bowler Scholarship Committee (2021)
- Clinical Faculty Search Committee (2018)

Service to CU Boulder

Social Sciences Divisional Council Committee (2024-present)
Arts & Sciences Gift Fund Committee (2021-present)
Van Ek Student Award Selection Committee (2020-present)
College of Arts and Sciences Associate Dean of Research Search Committee (2022)
College of Arts & Sciences Faculty Council Budget Committee (2016-2022)
Institute of Cognitive Sciences (ICS) Executive Committee (2017-2019)
College of Arts & Sciences Faculty Council (now known as Faculty Senate), SLHS representative (2016-2018)

External Service

Professional Advisory Board (PAB) member for the international organization, Parents and Researchers Interested in Smith-Magenis Syndrome (PRISMS) (2012-present)

- Ad-hoc Committee for the PRISMS PAB: PRISMS Clinic Consortium Membership Application Review Committee (2021-present)
- Co-Chair of the PRISMS PAB (starting in January, 2026)

Expert Witness (for the defendant) in a civil suit involving a clinical practice that provided speech-language pathology services (2017-2018). Prepared written reports with analyses of evidence that became part of the legal case record.

External Reviewer for the promotion of an Associate Clinical Professor in the Department of Communication Sciences and Disorders, Northwestern University (2022).

Grant Proposal Reviewer

- CU Boulder SSCI Divisional Grant (2025)
- CU AB Nexus Grant (2024)
- CU Boulder Albert Smith Nuclear Age Fund (2020)

Ad-hoc Reviewer

Journal Reviews

ASHA Journal of Speech, Language, and Hearing Research; Brain Sciences; Clinical Genetics; Cognition; Current Medical Imaging; European Journal of Medical Genetics; Human Brain Mapping; Journal of Experimental Psychology: General; Journal of Speech, Language, and Hearing Research; Language, Speech, and Hearing Services in Schools; Neuroscience; Plos One; Reading and Writing; The Journal of Experimental Psychology: Applied; Pediatric Investigation; The Journal of Experimental Psychology: General; Genetics in Medicine

Additional Ad-hoc Reviews

Plural Publishing: Book Proposal Review
Webinar: ASHA CEU Review