

**Jennifer Zuk, PhD, CCC-SLP**

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<b>Boston University, Boston, MA</b>	2020 - Present
<b>Assistant Professor</b> , Department of Speech, Language, and Hearing Sciences	
2020 - <i>Lab Director</i> : Communication and Neurodevelopment Lab	
2020 - <i>Affiliated Faculty</i> : Center for Systems Neuroscience	
2021 - <i>Affiliated Faculty</i> : Undergraduate & Graduate Programs for Neuroscience	
2021 - <i>Affiliated Faculty</i> : Department of Linguistics	

**Education and Training**

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<b>Boston Children's Hospital/Harvard Medical School, Boston, MA</b>	2018 - 2020
Postdoctoral Research Fellow, Laboratories of Cognitive Neuroscience	
<b>Spaulding Rehabilitation Hospital, Boston, MA</b>	2018 - 2020
Clinical Fellow in Speech-Language Pathology	
<b>Harvard University, Cambridge, MA</b>	2018
Ph.D. in Speech and Hearing Bioscience and Technology	
Dissertation: <i>Sowing seeds of literacy: Factors that promote language and reading acquisition along the developmental trajectory from infancy to school age</i>	
<b>MGH Institute of Health Professions, Charlestown, MA</b>	2015
Training for Certificate of Clinical Competence in Speech-Language Pathology (CCC-SLP)	
<b>Harvard Graduate School of Education, Cambridge, MA</b>	2010
Ed. M. in Mind, Brain, and Education	
<b>Case Western Reserve University, Cleveland, OH</b>	2009
Dual Degree: B.S. in Music Education & B.A. in Cognitive Science, <i>cum laude</i>	

**Awards and Honors**

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Early Career Award for Contributions to Research, International Dyslexia Association (IDA)	2024
Early Career Contributions in Research Award, American Speech-Language-Hearing Association (ASHA)	2021
Postdoctoral Fellowship Award, Cognitive Neuroscience Society	2020
Distinction in Teaching Award, Harvard University	2019
Young Scientist Travel Award, Harvard Brain Initiative	2019
Distinction in Teaching Award, Harvard University	2018
Albert J. Ryan Fellowship, Albert J. Ryan Foundation	2017
Student Research Award, Society for Music Perception and Cognition	2015
Mariani Foundation Scholarship for the Neurosciences & Music V conference	2014
Summer Research Grant, Harvard Graduate School of Arts & Sciences	2014
Conference Grant, Harvard Graduate School of Arts & Sciences	2014
The Doris Young Hartsock Prize for outstanding performance in music education, Case Western Reserve	2009
Creative All-Star Award, Case Western Reserve University	2009
Honored volunteer award in music therapy, Cleveland Music School Settlement	2009
Mortar Board National College Senior Honor Society	2008

(Updated October 2024)

## Professional Recognition

<sup>+</sup>Trainees under my primary mentorship as faculty at BU

\*Authors contributed equally

### Peer-Reviewed Publications

1. Davison, K. E.<sup>+</sup>, Ronderos, J.<sup>+</sup>, Gomez, S.<sup>+</sup>, Boucher, A.R., & **Zuk, J.** (2024). Caregiver self-efficacy in relation to caregivers' history of language-based learning difficulties and children's shared reading experiences. *Language, Speech, and Hearing Services in Schools*, 1-17.
2. Ronderos, J.<sup>+</sup>, **Zuk, J.**, Hernandez, A.E., & Vaughn, K.A. (2024). Large-scale investigation of white matter structural differences in bilingual and monolingual children: An ABCD data study. *Human Brain Mapping*, 45(2), e26608.
3. Dahl, K., Díaz-Cádiz, M., **Zuk, J.**, Guenther, F.H., & Stepp, C.E. (2024). Controlling pitch for prosody: Sensorimotor adaptation in linguistically meaningful contexts. *Journal of Speech, Language, and Hearing Research*, 67(2), 440-454.
4. Wang, J., Turesky, T., Loh, M., Barber, J., Hue, V., Escalante, E., Medina, A., **Zuk, J.**, Gaab, N. (2024). Lateralization of activation within the superior temporal gyrus during speech perception in sleeping infants is associated with subsequent language skills in kindergarten: A passive listening task-fMRI study. *Brain and Language*, 257, 105461.
5. Mues, M.\*<sup>+</sup>, **Zuk, J.\***, Norton, E., Gabrieli, J., Hogan, T.P., & Gaab, N. (2023). Clarifying the relationship Between early speech-sound production abilities and subsequent reading outcomes. *Journal of Speech, Language, and Hearing Research*, 66(8), 2766-2782.
6. Davison, K.E.\*<sup>+</sup>, **Zuk, J.\***, Mullin, L., Ozernov-Palchik, O., Norton, E., Gabrieli, J.D.E., Yu, X., & Gaab, N. (2023). Examining shared reading and white matter organization in kindergarten in relation to Subsequent language and reading abilities: A longitudinal investigation. *Journal of Cognitive Neuroscience*, 35(2), 259-275.
7. Andrade, P., Mullensiefen, D., Andrade, O., Dunstan, J., **Zuk, J.**, & Gaab, N. (2023). Sequence processing in Music predicts reading skills in young brazilian readers: A longitudinal study. *Journal of Learning Disabilities*, 1-18.
8. Spencer, C.<sup>+</sup>, Davison, K.E.<sup>+</sup>, Boucher, A., & **Zuk, J.** (2022). Speech Perception Variability in Childhood Apraxia of Speech: Implications for Diagnosis and Treatment. *Language, Speech, and Hearing Services in Schools*, 1-16.
9. **Zuk, J.**, Vanderauwera, J., Turesky, T., Yu, X., & Gaab, N. (2022). Neurobiological predispositions for musicality: White matter in infancy predicts school-age music aptitude. *Developmental Science*, e13365.
10. Yu, X., Ferradal, S., Dunstan, J., Carruthers, C., Sanfilippo, J., **Zuk, J.**, Zöllei, L., Gagoski, B., Ou, Y., Grant, P.E., & Gaab, N. (2022). Patterns of neural functional connectivity in infants at familial risk of developmental dyslexia. *JAMA Network Open*, 5(10), e2236102.
11. Turesky, T.K., Sanfilippo, J., **Zuk, J.**, Ahtam, B., Gagoski, B., Lee, A., Garrisi, K., Dunstan, J., Carruthers, C., Vanderauwera, J., Yu, X., & Gaab, N. (2022). Home language and literacy environment and its relationship to socioeconomic status and white matter structure in infancy. *Brain Structure and Function*, 227(8):2633-2645.
12. **Zuk, J.**, Yu, X., Sanfilippo, J., Figuccio, M., Dunstan, J., Carruthers, C., Turesky, T., Grant, E., & Gaab, N. (2021). White matter in infancy is prospectively associated with language outcomes in kindergarten. *Developmental Cognitive Neuroscience*, 50, 100973.
13. **Zuk, J.**, Dunstan, J., Norton, E., Yu, X., Ozernov-Palchik, O., Wang, Y., Hogan, T.P., Gabrieli, J.D.E. & Gaab, N. (2021). Multifactorial pathways facilitate resilience among kindergarteners at risk for dyslexia: A longitudinal behavioral and neuroimaging study. *Developmental Science*, 24(1), e12983.
14. Yu, X., Ferradal, S., Sliva, D., Dunstan, J., Carruthers, C., Sanfilippo, J., **Zuk, J.**, Zöllei, Z., Boyd, E., Gagoski, B., Grant, P.E., & Gaab, N. (2021). Functional connectivity in infancy and toddlerhood predicts long-term language and pre-literacy outcomes. *Cerebral Cortex*, 32(4):725–36.
15. Yu, X., **Zuk, J.**, Mauer, M., Ozernov-Palchik, O., Raney, T., Beach, S., Norton, E.S., Gabrieli, J.D.E., & Gaab, N. (2020). Putative protective neural mechanisms in prereaders with a family history of dyslexia who subsequently develop typical reading skills. *Human Brain Mapping*, 41(10), 2827-2845.
16. Ozernov-Palchik, O., Norton, E.S., Wang, Y., Beach, S.D., **Zuk, J.**, Wolf, M., Gabrieli, J.D.E., & Gaab, N. (2019). The relationship between socioeconomic status and white matter microstructure in pre-reading children: A longitudinal investigation. *Human Brain Mapping*, 1-14.

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**(Peer-Reviewed Publications, Continued)**

17. **Zuk, J.**, Perdue, M.V., Becker, B., Yu, X., Chang, M., Raschle, N.R., & Gaab, N. (2018). Neural correlates of phonological processing: disrupted in children with reading disorders and enhanced in children with musical training. *Developmental Cognitive Neuroscience*, *34*, 82-91.
  18. **Zuk, J.**, & Gaab, N. (2018). Evaluating the roles of predisposition and training in shaping the musician's brain: a developmental perspective. *Annals of the New York Academy of Sciences*, *1423*(1), 40-50.
  19. Yu, X., **Zuk, J.**, & Gaab, N. (2018). What factors facilitate resilience in developmental dyslexia? Examining protective and compensatory mechanisms across the developmental trajectory. *Child Development Perspectives*, *12*(4), 240-246.
  20. **Zuk, J.**, Iuzzini, J., Cabbage, K., Green, J., Carrell, T., & Hogan, T.P. (2018). Poor speech perception is not a core deficit of childhood apraxia of speech: preliminary findings. *Journal of Speech, Language, and Hearing Research*, *61*(3), 583-592.
  21. Yu, X., Raney, T., Perdue, M.V., **Zuk, J.**, Ozernov-Palchik, O., Becker, B.C., Raschle, N.M. & Gaab, N. (2018). Emergence of the neural network underlying phonological processing from the pre-reading to the emergent reading stage: a longitudinal study. *Human Brain Mapping*, *39*(5), 2047-2063.
  22. Cabbage, K., Farquharson, K., Iuzzini-Siegel, J., **Zuk, J.**, & Hogan, T.P. (2018). Exploring the overlap between dyslexia and speech sound production deficits. *Language, Speech, and Hearing Services in Schools*, *49*, 774-786.
  23. **Zuk, J.**, Bishop-Lieber, P., Ozernov-Palchik, O., Peysakovich, B., Moore, E., Overy, K., Welch, G., & Gaab, N. (2017). Revisiting the 'enigma' of musicians with dyslexia: auditory sequencing and speech abilities. *Journal of Experimental Psychology: General*, *146*(4), 495-511.
  24. Langer, N., Peysakhovich, B., **Zuk, J.**, Drottar, M., Sliva, D., Smith, S., Becker, B., Grant, E., & Gaab, N. (2017). White matter alterations in infants at risk for developmental dyslexia. *Cerebral Cortex*, *27*(2), 1027-1036.
  25. Clayton, K.K., Swaminathan, J., Yazdanbaksh, A., **Zuk, J.**, Patel, A.D. & Kidd Jr, G. (2016). Executive function, visual attention and the cocktail party problem in musicians and non-musicians. *PLoS ONE*, *11*(7), e0157638.
  26. **Zuk, J.**, Benjamin, C., Kenyon, A., & Gaab, N. (2014). Behavioral and neural correlates of executive functioning in musicians and nonmusicians. *PLoS ONE*, *9*(6), e99868.
  27. Raschle, N.M., Smith, S., **Zuk, J.**, Figuccio, M., & Gaab, N. (2014). Investigating the neural correlates of voice versus speech-sound directed information in pre-school children. *PLoS ONE*, *9*(12), e115549.
  28. **Zuk, J.**, Ozernov-Palchik, O., Kim, H., Lakshminarayanan, K., Gabrieli, J.D.E., Tallal, P., & Gaab, N. (2013). Enhanced syllable discrimination thresholds in musicians. *PLoS ONE*, *8*(12), e80546.
  29. **Zuk, J.**, Estevan Andrade, P., Valeria C.A. Andrade, O., Gardiner, M., & Gaab, N. (2013). Musical, language, and reading abilities in early Portuguese readers. *Frontiers in Psychology*, *4*(228), 1-12.
  30. Raschle, N., **Zuk, J.**, Ortiz-Mantilla, S., Sliva, D., Franceschi, A., Grant, E., Benasich, A., & Gaab, N. (2012). Pediatric neuroimaging in early childhood and infancy: challenges and practical guidelines. *Annals of the New York Academy of Sciences*, *1252*, 43-50.
  31. Raschle, N. M., **Zuk, J.**, & Gaab, N. (2012). Functional characteristics of developmental dyslexia in left-hemispheric posterior brain regions predate reading onset. *Proceedings of the National Academy of Sciences*, *109*(6), 2156–2161.
  32. Wan, C.Y., Bazen, L., Baars, R., Libenson, A., **Zuk, J.**, Norton, A., & Schlaug, G. (2011). Auditory motor-mapping training as an intervention to facilitate speech output in nonverbal children with autism: a proof of concept study. *PLoS ONE*, *6*(9), e25505.
  33. Loui, P., Kroog, K., **Zuk, J.**, Winner, E., & Schlaug, G. (2011). Relating pitch awareness to phonemic awareness in children: implications for tone-deafness and dyslexia. *Frontiers in Psychology*, *2*(111).
- Consortium Peer-Reviewed Publications:** ^Indicates group authorship membership
34. Korom, M., Camacho, M.C., Filippi, C.A., Licandro, R., Moore, L.A., Dufford, A., Zöllei, L., Graham, A.M., Spann, M., Howell, B., FIT'NG Group^, Shultz, S., & Scheinost, D. (2022). Dear Reviewers: Responses to Common Reviewer Critiques about Infant Neuroimaging Studies. *Developmental Cognitive Neuroscience*, *53*, 101055.
  35. Pollatou, A., Filippi, C. A., Aydin, E., Vaughn, K., Thompson, D., Korom, M., Dufford, A., Howell, B., Zöllei, Z., Martino, A., Graham, A., FIT'NG Group^, & Spann, M. (2022). An ode to Fetal, Infant, and

Toddler Neuroimaging: Chronicling early clinical to research applications with MRI, and an introduction to an academic society connecting the field. *Developmental Cognitive Neuroscience*, 54, 101083.

**Preprints (under review):**

36. Liu, T.<sup>+</sup>, Davison, K.E.<sup>+</sup>, Madsen Hardy, I.<sup>+</sup>, Kershenbaum, A., Weed, E., Gabrieli, J.D.E., Tager-Flusberg, H., & **Zuk, J.** Rethinking Prosody in Autism: Examining Prosody Production through Multiple Approaches. [<https://osf.io/preprints/osf/78dvn>].
37. **Zuk, J.\***, Davison, K.E.\*, Doherty, L., Manning, B., Wakschlag, L.S., & Norton, E.S. Maternal oral reading expressiveness in relation to toddler's concurrent language skills across a continuum of early language abilities. [<https://osf.io/preprints/osf/cbe2k>].
38. Davison, K.E.<sup>+</sup>, Liu, T.<sup>+</sup>, Belisle, R., Perrachione, T., Qi, Z., Gabrieli, J.D.E., Tager-Flusberg, H., & **Zuk, J.** Speech timing in relation to white matter organization in autistic and non-autistic children. [<https://osf.io/preprints/osf/xzuty>].
39. O'Brien, A., Liu, T.<sup>+</sup>, Cardinaux, A., Gabrieli, J.D.E., & **Zuk, J.** Perceiving and producing prosody: Perspectives and insights from autistic adults. [<https://osf.io/preprints/osf/f7mqn>].
40. Liu, T.<sup>+</sup>, Gray-Bauer, H.<sup>+</sup>, Davison, K.E.<sup>+</sup>, & **Zuk, J.** Associations between the home music environment, home literacy environment, and parental self-efficacy in families with preschoolers. [<https://osf.io/preprints/osf/j93h4>].
41. King, C.J., Lee, A.M., **Zuk, J.**, Ravi, N., & Gaab, N. The COVID-19 Home Environment Literacy Practices (COVID-19-HELP) Questionnaire [<https://osf.io/2bjhd/>].

**Book Chapters:**

- Zuk, J.**, Loui, P., & Guenther, F. Neural Control of Speaking and Singing: The DIVA Model for Singing, in D. Sammler (Eds.), *Oxford Handbook of Language and Music*, Oxford: Oxford University Press. *Accepted, in press.* [<https://psyarxiv.com/xqtc9>]
- Leon Guerrero, S. Ozernov-Palchik, O., **Zuk, J.**, Gonzalez, M., & Gaab, N. (2019). Using tablet technology to screen for reading disabilities in preschool and early kindergarten, in N. Kucirkova, J. Rowsell, & G. Falloon (Eds.), *The Routledge International Handbook of Learning with Technology in Early Childhood*, London: Routledge.
- Raschle, N.M., Lee, L., Sterling, P.L., **Zuk, J.** & Gaab, N. (2012). Neural correlates of reading related processes examined with fMRI before reading onset and after language/reading remediation, in A.A. Benasich & R.H. Fitch (Eds.), *Developmental dyslexia: Early precursors, neurobehavioral markers and biological substrates (The Extraordinary Brain Series)*, Baltimore: Brookes Publishing Co.

**Magazine Article:**

- Zuk, J.** & Gaab, N. (2017 May). Is there a link between music and math? *Scientific American*.

**Research Funding**

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**Active**

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|---|-------------|
| Hartwell Foundation Individual Biomedical Research Award  | 2022 - 2025 |
| <i>Project Title:</i> Neurobiological basis of speech patterns as a biomarker for Autism Spectrum Disorder in early childhood               |             |
| <i>Role:</i> Principal Investigator   |             |
| <i>Total Direct Costs:</i> \$300,000  |             |
| The Dyslexia Foundation Albert M. Galaburda Research Award  | 2022 - 2024 |
| <i>Project Title:</i> Investigating parental oral reading prosody in relation to preschool children's emergent language and literacy skills |             |
| <i>Role:</i> Principal Investigator   |             |
| <i>Total Direct Costs:</i> \$50,000   |             |
| Boston University Institute for Early Childhood Well-Being  | 2022 - 2024 |
| University-Community Partnership Research Award   |             |
| <i>Project Title:</i> Motor function and language development in infants at-risk for neurodevelopmental disorders                           |             |
| <i>Role:</i> Co-Principal Investigator (Co-PI: Ferre)   |             |
| <i>Total Direct Costs:</i> \$15,000   |             |

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**Completed**

Sackler Foundation, Sackler Scholar in Psychobiology	2017 - 2018
<i>Title:</i> Tracking brain and behavioral correlates of music, language, and literacy development from infancy to school age	
<i>Role:</i> Principal Investigator/Trainee	
National Institutes of Health, National Institute of Deafness and Other Communication Disorders	2016 - 2017
Ruth L. Kirschstein Pre-Doctoral National Research Service Award	
<i>Title:</i> Examining behavioral and neural links between speech delay and literacy skills	
<i>Role:</i> Principal Investigator	
Harvard University Mind, Brain and Behavior Interfaculty Initiative, Graduate Student Award	2016
American Speech-Language-Hearing Foundation, New Century Scholars Doctoral Scholarship	2015
National Institutes of Health, National Institute of Deafness and Other Communication Disorders	2012 - 2015
Institutional Pre-Doctoral Training Grant	

**Conference Presentations****Oral Presentations:**

<sup>+</sup>*Trainees under my primary mentorship as faculty at BU*

- Zuk, J.**, Gray-Bauer, H.<sup>+</sup>, Liu, T.<sup>+</sup>, Davison, K.<sup>+</sup>. Intergenerational links between music and language: Examining parental musicality and language skills in relation to children's home music and language environments. Oral presentation as part of symposium, *Rhythmic and metric pathways into language and reading development*, Society for Music Perception and Cognition Conference, Banff, Alberta; July 2024.
- Liu, T.<sup>+</sup>, Ladányi, E., Nayak, S., Bush, C.T., Woynaroski, T.G., **Zuk, J.**, Lense, M.D., Gordon, R.L. The predictive role of infants' home music environment on their vocabulary development. Oral presentation accepted to the Society for Music Perception and Cognition Conference, Banff, Alberta; July 2024.
- Davison, K.<sup>+</sup>, Gray-Bauer, H.<sup>+</sup>, **Zuk, J.** Examining relationships between the home music environment and caregiver oral reading expressiveness in families of preschool-age children. Oral presentation accepted to the Society for Music Perception and Cognition Conference, Banff, Alberta; July 2024.
- Liu, T.<sup>+</sup>, Davison, K.<sup>+</sup>, Madsen Hardy, I.<sup>+</sup>, Kershenbaum, A., Gabrieli, J. D. E., Tager-Flusberg, H., & **Zuk, J.** Language matters: Relationships between speech rate, autism diagnostic status, and language ability. Oral Presentation accepted for the International Society for Autism Research (INSAR) Annual Meeting, Melbourne, Australia; May 2024.
- Davison, K.<sup>+</sup>, Valladares, M.<sup>+</sup>, Gray-Bauer, H.<sup>+</sup>, Boucher, A., & **Zuk, J.** Parents' oral reading expressiveness in shared reading: associations with parents' language-related skills and language interaction. Oral presentation for the Annual Convention of the American Speech-Language-Hearing Association, Boston, MA; November 2023.
- Liu, T.<sup>+</sup>, Madsen Hardy, I.<sup>+</sup>, Kershenbaum, A., Gabrieli, J., Tager-Flusberg, H., **Zuk, J.** Speech rate in relation to language difficulty in autistic and non-autistic children. Oral presentation for the Annual Convention of the American Speech-Language-Hearing Association, Boston, MA; November 2023.
- Zuk, J.** Dunstan, J., Norton, E., Yu, X., Ozernov-Palchik, O., Wang, Y., Hogan, T.P., Gabrieli, J.D.E. Gaab, N. Multifactorial pathways towards resilience among children at risk for dyslexia: longitudinal evidence from kindergarten to second grade. Oral presentation as part of symposium, *Resilience in Learning to Read with Dyslexia*, International Dyslexia Association Conference, Columbus, Ohio; October 2023.
- Liu, T.<sup>+</sup>, Gray-Bauer, H.<sup>+</sup>, Davison, K.<sup>+</sup>, & **Zuk, J.** Examining relationships between the home music environment, home literacy environment, and parental self-efficacy in families of young children. Oral presentation for the International Conference on Music Perception and Cognition (ICMPC), Tokyo, Japan; August 2023.
- Zuk, J.**, Wyton, J., Gallagher, K. Linking music, language, and literacy: using research to create an inclusive music classroom accessible to diverse learners. Oral presentation for Arts Better the Lives of Everyone (ABLE) Assembly, virtual presentation; April 2022.
- Zuk, J.**, Mues, M.<sup>+</sup>, Norton, E., Becker, B., Hogan, T.P., Gabrieli, J., Gaab, N. Clarifying the relationship between early speech-sound production abilities and subsequent reading outcomes. Oral presentation for the Annual Convention of the American Speech-Language-Hearing Association. Washington, D.C.; November 2021.

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**(Oral Conference Presentations, Continued):**

- Zuk, J.**, Sanfilippo, J., Vanderauwera, J., Turesky, T., Lee, A., Dunstan, J., Gagoski, B., Grant, P. E., Gaab, N. Evaluating contributions of home literacy environment and white matter organization to emerging language abilities: a longitudinal investigation from infancy to toddlerhood. Symposium presentation accepted in symposium for the Society for the Scientific Study of Reading Annual Meeting. Newport Beach, CA; July 2020 (Convention canceled due to COVID-19 pandemic).
- Zuk, J.**, Hyatt, C., Gibbon, H., Stack, C., & Kaplan, J. Clinical applications of Neurologic Music Therapy for Speech & Language: Inpatient through Community-based Interventions for Neurologic Injury and Disease. Instructional Course for the American Congress of Rehabilitation Annual Conference. Chicago, IL; November 2019.
- Zuk, J.**, Figuccio, M., Yu, X., Sanfilippo, J., Dunstan, J., Carruthers, C., Grant, E., & Gaab, N. White matter microstructure in infancy predicts language and pre-literacy abilities in preschool. In symposium for the Society for the Scientific Study of Reading Annual Meeting. Toronto, Canada; July 2019.
- Zuk, J.**, Gallagher, K., & Powers, B. Engaging Research Partners: Music to Our Ears. Joint presentation for the South by Southwest (SXSW) Education Conference. Austin, TX; March 2019.
- Zuk, J.**, & Gaab, N. Is white matter in infancy related to music aptitude abilities in preschool? Presentation for the Northeast Cognition Music Group annual meeting. Cambridge, MA; February 2019.
- Zuk, J.**, Dunstan, J., Norton, E., Ozernov-Palchik, O., Wang, Y., Hogan, T.P., Gabrieli, J.D.E. & Gaab, N. The potential role of speech sound production in facilitating reading development among children at risk for reading impairment. In symposium for the Society for the Scientific Study of Reading Annual Meeting. Brighton, UK; July 2018.
- Zuk, J.**, Figuccio, M., Yu, X., Sanfilippo, J., Dunstan, J., Carruthers, C., Grant, E., Gaab, N. White matter in infancy predicts language and pre-literacy skills in preschool. Presentation for the New England Research on Dyslexia Society Meeting. Storrs, CT; October 2017.
- Zuk, J.**, Figuccio, M., Sanfilippo, S., Dunstan, J., Carruthers, C., Langer, N., Yu, X., Grant, E., Gaab, N. Is white matter in infancy related to music aptitude abilities in preschool? Presentation for the Music, Language and Cognition Summerschool. Como, Italy; June 2017.
- Zuk, J.**, Figuccio, M., Yu, X., Sanfilippo, J., Dunstan, J., Carruthers, C., Grant, E., Gaab, N. Tracking brain and behavioral correlates of language and literacy development from infancy to school age. Presentation for the Albert J. Ryan Fellows Retreat. North Conway, NH; May 2017.
- Zuk, J.**, Iuzzini-Siegel, J., Cabbage, K., Green, J., & Hogan, T.P. Speech perception in childhood apraxia of speech: language matters. Presentation for the annual American Speech and Hearing Association Annual Convention. Denver, CO; November 2015.
- Zuk, J.**, Becker, B., Norton, E., Ozranov-Palchik, O., Beach, S., Mauer, M., Hogan, T.P., Gabriell, J., & Gaab, N. Structural brain alterations in young children at behavioral risk for dyslexia and the impact of speech sound disorders. Presentation for the Seventh International Summerschool on Literacy Research. Egmonde aan Zee, Netherlands; August 2015.
- Zuk, J.**, Bishop-Lieber, P., Ozernov-Palchik, O., Peysakovich, B., Moore, E., Overy, K., Welch, G., Gaab, N. The paradox of musicians with dyslexia: characterizing auditory and speech processing profiles. Presentation accepted for the Meeting of the Society for Music Perception and Cognition. Nashville, TN; August 2015.
- Zuk, J.** The advantages of musical training in language ability and brain function. Invited presentation for Superbrains: Exploring the Neuroscience of Extraordinary Abilities. Las Vegas, NV; May 2015.
- Zuk, J.**, Bishop-Lieber, P., Ozernov-Palchik, O., Peysakovich, B., Moore, E., Overy, K., Welch, G., Gaab, N. Characterizing auditory and speech processing abilities in musicians with dyslexia. Presentation for the Northeast Cognition Music Group annual meeting. Middleton, CT; April 2015.

**Selected Conference Poster Presentations:**

- Gray-Bauer, H.<sup>+</sup>, Davison, K.<sup>+</sup>, Crespo, K., **Zuk, J.** Examining preschoolers' home music exposure in relation to their executive function skills. Poster accepted to the Society for Music Perception and Cognition Conference, Banff, Alberta; July 2024.
- Ronderos, J.<sup>+</sup>, Davison, K.<sup>+</sup>, **Zuk, J.** The impact of self-efficacy on shared reading practices in Spanish-English bilingual families. Poster accepted to the International Congress for the Study of Child Language, Prague, Czech Republic; July 2024.

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**(Selected Conference Poster Presentations, Continued):**

- Davison, K.<sup>+</sup>, Doherty, L.<sup>+</sup>, Manning, B., Wakschlag, L., Norton, E.S., & **Zuk, J.** Maternal oral reading expressiveness relates to late-talking and typically-developing toddlers' receptive language skills. Poster presentation for the Symposium on Research in Child Language Disorders, Madison, WI; June 2024.
- Ronderos, J.<sup>+</sup>, Davison, K.<sup>+</sup>, **Zuk, J.** Caregiver self-efficacy and caregiver education in relation to reading difficulties and shared reading practices in Spanish-English bilingual families. Poster accepted to the Symposium on Research in Child Language Disorders, Madison, WI; June 2024.
- Davison, K.<sup>+</sup>, Liu, T.<sup>+</sup>, Ancheta, T.<sup>+</sup>, Madsen Hardy, I.<sup>+</sup>, Kershenbaum, A., Perrachione, T., Qi, Z., Gabrieli, J.D.E., Tager-Flusberg, H., & **Zuk, J.** Speech timing in relation to white matter organization in autistic and non-autistic children. Poster presentation accepted for the International Society for Autism Research (INSAR) Annual Meeting, Melbourne, Australia; May 2024.
- Doherty, L.<sup>+</sup>, Davison, K.<sup>+</sup>, Stetson, H.<sup>+</sup>, Manning, B., Wakschlag, L., Norton, E., **Zuk, J.** The expressiveness of parents' storybook reading in relation to children's emerging language abilities in toddlerhood. Designated as a *Meritorious Poster* Presentation for the American Speech Language-Hearing Association annual convention, Boston, MA; November 2023.
- Spencer, C.<sup>+</sup>, Rogers, E., Goldman, C.<sup>+</sup>, Roemer Britsch, E., **Zuk, J.**, Iverson, J. Speech production of 3-year-old children with vs. without an older sibling with autism. Poster presentation for the American Speech Language-Hearing Association annual convention, Boston, MA; November 2023.
- Stetson, H.<sup>+</sup>, Doherty, L.<sup>+</sup>, Davison, K.<sup>+</sup>, Manning, B., Wakschlag, L., Norton, E., **Zuk, J.** Parent-child conversational interactions during shared book reading in toddlerhood in relation to child language status. Poster presentation for the American Speech Language-Hearing Association annual convention, Boston, MA; November 2023.
- Gray-Bauer, H.<sup>+</sup>, Liu, T.<sup>+</sup>, Davison, K.<sup>+</sup>, & **Zuk, J.** Associations between the home literacy environment, home musical environment, and parental self-efficacy in families of preschoolers. Poster presentation for the Annual Convention of the American Speech-Language-Hearing Association, Boston, MA; November 2023.
- Davison, K.<sup>+</sup>, Gomez, S.<sup>+</sup>, Boucher, A., **Zuk, J.** Parental self-efficacy in relation to parents' history of language based learning difficulties and children's shared reading exposure. Poster presentation for the 43rd Annual Symposium on Research in Child Language Disorders (SRCLD). Madison, Wisconsin; June 2023.
- Liu, T.<sup>+</sup>, Madsen Hardy, I.<sup>+</sup>, Kershenbaum, A.<sup>+</sup>, Gabrieli, J., Tager-Flusberg, T., & **Zuk, J.** Speech timing is linked with language difficulties in autistic and non-autistic children. Poster presentation for the International Society for Autism Research Annual Meeting (INSAR). Stockholm, Sweden; May 2023.
- Madsen Hardy, I.<sup>+</sup>, Kershenbaum, A.<sup>+</sup>, Gabrieli, J., Tager-Flusberg, T., & **Zuk, J.** Building prosodic profiles for pediatric Autism Spectrum Disorder and Developmental Language Disorder. Poster presentation accepted for the Annual Convention of the American Speech-Language-Hearing Association. New Orleans, Louisiana; November 2022.
- Ronderos, J.<sup>+</sup>, **Zuk, J.**, Hernandez, A.E., & Vaughn, K.A. White matter differences in bilingual and monolingual children: an ABCD data study. Poster presented at the Neurobiology of Language meeting. Philadelphia, PA; October 2022.
- Davison, K.<sup>+</sup>, Gomez, S.<sup>+</sup>, Boucher, A., **Zuk, J.** Parental self-efficacy in relation to reading history and children's home literacy environments. Poster presentation at the 29<sup>th</sup> Annual Conference of the Society for the Scientific Study of Reading (SSSR); July 2022.
- Ronderos, J.<sup>+</sup>, **Zuk, J.**, Hernandez, A.E., & Vaughn, K.A. Characterizing white matter differences in bilingual and monolingual children. Poster presented at the Cognitive Neuroscience Society (CNS) meeting 2022 in San Francisco, CA; April 2022.
- Davison, K.<sup>+</sup>, **Zuk, J.**, Mullin, L., Schultz, V., Ozernov-Palchik, O., Norton, E., Gabrieli, J.D.E., Yu, X., Gaab, N. Associations between shared book reading at home and white matter organization in kindergarten in relation to subsequent language and reading abilities. Poster presentation accepted for the Boston University Conference on Language Development (BUCLD). Virtual meeting due to COVID-19 pandemic; November 2021.

**(Selected Conference Poster Presentations, Continued):**

- Zuk, J.**, Davison, K.<sup>+</sup>, Vanderauwera, J., Turesky, T., Garrisi, K., Lee, A., Dunstan, J., Grant, P.E., Gaab, N. Examining longitudinal relationships between white matter organization in infancy and subsequent reading achievement at school age. Poster presentation accepted for the Flux Congress. Virtual meeting due to COVID-19 pandemic; September 2021.
- Zuk, J.**, Sanfilippo, J., Garrisi, K., Vanderauwera, J., Turesky, T., Lee, A., Gagoski, B., Grant, P.E., Gaab, N. Examining associations between home literacy environment and white matter organization in infancy in relation to subsequent language abilities in toddlerhood. Poster presentation accepted for the Symposium on Research in Child Language Disorders (SRCLD). Virtual meeting due to COVID-19 pandemic; June 2021.
- Zuk, J.**, Vanderauwera, J., Lee, A., Gonzalez, M., Dunstan, J., Turesky, T., Rubez, D., Yu, X., Grant, P.E., Gaab, N. Variability in white matter organization in infancy is prospectively associated with subsequent musicality in early childhood. Poster presentation accepted to Neurosciences & Music VII. Virtual presentation due to COVID-19 pandemic; June 2021.
- Zuk, J.**, Davison, K., Garrisi, K., Lee, A., Vanderauwera, J., Turesky, T., Dunstan, J., Grant, P.E., Gaab, N. White matter in infancy is prospectively associated with subsequent decoding abilities at school age. Poster presentation accepted for the 28th annual meeting of the Cognitive Neuroscience Society (CNS). Virtual meeting due to COVID-19 pandemic; March 2021.
- Davison, K.<sup>+</sup>, Mullin, L., **Zuk, J.**, Schultz, V., Ozernov-Palchik, O., Norton, E., Gabrieli, J.D.E., Yu, X., Gaab, N. White matter organization is associated with home literacy environment in kindergarten and subsequent reading skills. Poster presentation accepted for the 28th annual meeting of the Cognitive Neuroscience Society (CNS). Virtual meeting due to COVID-19 pandemic; March 2021.
- Ravi, N.<sup>+</sup>, **Zuk, J.**, Garrisi, K., Lee, A., Vanderauwera, J., Turesky, T., Dunstan, J., Davison, K.<sup>+</sup>, Grant, P.E., Gaab, N. Examining relationships between the music environment and white matter organization in infancy. Poster presentation accepted for the 28th annual meeting of the Cognitive Neuroscience Society (CNS). Virtual meeting due to COVID-19 pandemic; March 2021.
- King, C., Vanderauwera, J., **Zuk, J.**, Turesky, T., Jamouille, N., Raschle, N., Gaab, N. Structural neural correlates of reading development in children with early language delay. Poster presented at the 27th annual meeting of the Cognitive Neuroscience Society (CNS). Boston, MA (virtual meeting in May 2020 due to COVID-19 pandemic).

**Invited Presentations**

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- Zuk, J.** (2024). Music, language, and the developing brain: Contributions of neural predispositions and Experience-induced neuroplasticity. Invited talk for the Northeastern Center for Cognitive and Brain Health Speaker Series, Boston, MA.
- Zuk, J.** (2024). Fostering enriching home learning experiences for young children: Considerations for early intervention practitioners. Invited professional development presentation for Boston Children's Hospital Early Intervention clinical team, Boston, MA.
- Zuk, J.** & Cabbage, K. (2024). Embracing Expertise: An SLP's guide to supporting children's literacy development. Invited professional development presentation for the Embracing Expertise Series for SLPs, Bright Ideas Media.
- Zuk, J.** (2024). SLP Literacy Guide: Early building blocks of literacy. Invited professional development presentation for the Embracing Expertise Series for SLPs, Bright Ideas Media.
- Zuk, J.** (2024). SLP Literacy Guide: Considerations for children with language disorders. Invited professional development presentation for the Embracing Expertise Series for SLPs, Bright Ideas Media.
- Zuk, J.** & Ferre, C. (2024). Motor Function and Language Development in Infancy. Invited presentation for Boston University Institute for Early Childhood Well-being annual meeting, *Early Childhood Wellbeing Research Connections*, Boston, MA.
- Zuk, J.** (2024). Investigating speech prosody in relation to autism diagnostic status and language abilities in school-age children and adolescents. Invited presentation for the Harvard PhonLab, Cambridge, MA.

***(Invited Presentations, Continued)***

- Zuk, J.** (2024). Sowing seeds of literacy: Links between music and reading along the neurodevelopmental trajectory. Invited presentation for Introduction to Cognitive and Brain Science course, Tufts University. Somerville, MA.
- Zuk, J.** (2023). Evaluating speech variability across neurodevelopmental disorders: contributions of motor speech subskills. Invited talk for the Boston Speech Motor Control Symposium. Boston, MA.
- Zuk, J.** (2023). Environmental influences on brain and language development in early childhood. Invited talk for Developmental Brown Bag Series for the department of Psychological Sciences at the University of Connecticut. Storrs, CT.
- Zuk, J.** (2023). Music, language, and the developing brain: How neural predisposition and musical training impact children's language abilities. Invited talk for the International Laboratory for Brain, Music, and Sound Research. Montreal, Canada.
- Zuk, J.** (2023). Neurobiological basis of speech prosody as a biomarker for autism in early childhood. Invited presentation given at the Senseable Intelligence Group, MIT. Cambridge, MA.
- Zuk, J.** (2023). Multifactorial pathways shaping the neurodevelopmental trajectory of language and reading acquisition. Invited presentation for the Child and Adolescent Neurodevelopment Initiative (CANDI) at the University of Massachusetts Chan Medical School. Virtual presentation.
- Zuk, J.** (2021). Evaluating music-based training as a framework for neuroplasticity: Implications for speech and language. Invited speaker for Dept of Speech-Language Pathology Education Meeting, South Shore Hospital, Weymouth, MA.
- Zuk, J., Wong, L., & Loui, P.** (2021). Music for well-being amid COVID-19: Perspectives from science, medicine, and community. Invited panelist for virtual symposium, Cambridge Science Festival, MA.
- Zuk, J.** (2021). Mapping your research path: An early career workshop. Invited panelist for virtual workshop, Boston University, Boston, MA.
- Zuk, J.** (2021). Neurodiversity in the Music Classroom. Invited presentation for VSA Music Education and Special Needs Study Group at Berklee College of Music, Boston, MA.
- Zuk, J. & Gallagher, K.** (2020). Mind the Gap! A blueprint for research-practitioner partnerships. Invited presentation for Haskins Language and Literacy Institute for Educators, New Haven, CT (event discontinued due to COVID-19 pandemic).
- Zuk, J.** (2020). Music and Brain Symposium. Invited speaker for Symposium, South Shore Conservatory, Hingham, MA (Symposium discontinued due to COVID-19 pandemic).
- Zuk, J.** (2020). Evaluating music-based training as a framework for neuroplasticity: Implications for speech and language. Invited presentation for Speech-Language Pathology Department Education Meeting, Spaulding Rehabilitation Hospital, Boston, MA.
- Zuk, J.** (2019). Music & Neuroscience: Implications for Speech and Language Development. Invited presentation for the Meeting of the Minds at Spaulding Rehabilitation Hospital, Boston, MA.
- Zuk, J.** (2018). Neuromusic: linking music, language, and literacy. Invited presentation for the Southport School Community Lecture Series, Southport, CT.
- Zuk, J.** (2018). Neurodiversity in the Music Classroom. Invited presentation for VSA Music Education and Special Needs Study Group at Berklee College of Music, Boston, MA.
- Zuk, J.** (2017). The potential role of musical training in facilitating reading development. Invited presentation for higher administration of the Southport School, Southport, CT.
- Zuk, J. & Lewis, C.** (2017). Music of difference: Disability, creativity, and social change. Invited presentation for ArtSenses Talk Series at Le Laboratoire, Cambridge, MA.
- Zuk, J.** (2016). Autism Program Inner Harmony Chorus Refresher/Training. Presentation for music education student leaders of the Boston Conservatory Inner Harmony Chorus, Boston MA.
- Zuk, J.** (2016). The advantages of musical training in language ability and brain function. Invited presentation for teachers for the Boston Conservatory Lab Charter School Professional Development Day, Roxbury, MA.
- Zuk, J.** (2016). Examining the connections between speech and music in research and practice. Invited presentation for speech-language pathologists at Clearly Speaking, Londonderry, NH.
- Zuk, J.** (2015). Invited to speak as an alumni panelist for the Harvard Graduate School of Education Open House for Newly Admitted Students, Cambridge, MA.

**(Invited Presentations, Continued)**

- Zuk, J.** (2015). Linking music, language, and literacy. Invited presentation for teachers for the Wheeler School Professional Development Day, Providence, RI.
- Zuk, J.** (2015). Associations between musical training, executive functioning, and the brain. Invited presentation for parents at Medfield Public Schools Parent Meeting, Medfield MA.
- Zuk, J.** (2014). Perception of speech sounds in childhood apraxia of speech: language matters. Presentation for the MGH Institute of Health Professions Doctoral Seminar, Boston, MA.
- Zuk, J.** (2014). Recent studies in the Gaab lab: linking music and literacy. Invited presentation for the Laboratories of Cognitive Neuroscience, Boston, MA.
- Zuk, J. & Becker, B.** (2014). The Reading Brain. Workshop for middle school students at the Harvard Graduate School of Education Brain Awareness Day, Cambridge, MA.
- Zuk, J. & Wimberly, D.** (2010). An Introduction to Music Therapy. Presentation at the Harvard Graduate School of Education, sponsored by Access and Disability Services. Cambridge, MA.
- Zuk, J.** (2010). Music and the Brain. Presentation at Concord-Carlisle Regional High School, Concord, MA.

**Clinical Speech and Language Experience**

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<b>Speech-Language Pathologist</b> Acute Inpatient Rehabilitation, Spaulding Rehabilitation Hospital	2018 – 2020 Boston, MA
<b>Student Clinician</b> Comprehensive Rehab Unit & Nursing and Therapy Center, Spaulding Rehabilitation Hospital Voice and Speech Laboratory, Massachusetts Eye and Ear Infirmary Speech, Language and Literacy Department, Haynes Early Education Center Secondary Program, Perkins School for the Blind The Speech, Language and Literacy Center, MGH Institute of Health Professions	2014-2015 Boston, MA Boston, MA Roxbury, MA Watertown, MA Boston, MA

**Teaching Experience**

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*At Boston University*

<b>Cognition and Neural Bases</b> , SAR SH756	Fall 2020, 2021, 2023
<b>Language Acquisition</b> , SAR SH 524	Spring 2021, 2022, 2023, 2024

*Other teaching*

<b>The Role of Music in Health and Education</b> , Teaching Fellow	Fall 2017, 2018
<b>Music and Disability</b> , Teaching Fellow Harvard University, Cambridge, MA	Spring 2016, 2017, 2019
<b>Typical and Atypical Neural Development</b> , Teaching Fellow Harvard Graduate School of Education, Cambridge, MA	Fall 2015, 2016
<b>Cognition</b> , Teaching Assistant	Fall 2014
<b>Language, Culture, and Cognition</b> , Teaching Assistant MGH Institute of Health Professions, Boston, MA	Summer 2015

**Invited Guest Lectures**

- 2024 "Sowing seeds of literacy: Links between music and reading along the neurodevelopmental trajectory." *Introduction to Cognitive and Brain Science*, Tufts University.
- 2023 "Musical training as a framework for brain plasticity: Implications for music, language, and literacy." *Music and Medicine*, Rutgers Robert Wood Johnson Medical School.
- 2022 "Musical training as a framework for brain plasticity: Implications for music, language, and literacy." *Music and Medicine*, Rutgers Robert Wood Johnson Medical School.

**(Invited Guest Lectures, Continued)**

- 2021 "Music, Language, and the Brain." *Neurobiology of Language*, Boston University.
- 2021 "Introduction to Language Disorders." *Language Development*, Beijing Normal University.
- 2021 "Musical Training as a Framework for Brain Plasticity: Implications for Music, Language, and Literacy." *Music, Brain Development, and Learning*, New England Conservatory.
- 2020 "Sowing seeds of literacy: Links between music and reading along the neurodevelopmental trajectory." *Cognitive Neuroscience*, Tufts University.
- 2019 "Childhood Apraxia of Speech." *Speech Sound Disorders*, MGH Institute of Health Professions.
- 2018 "Musical Training as a model for brain plasticity: Clinical Applications." *Introduction to Music*, Kutztown University.
- 2018 "Childhood Apraxia of Speech." *Speech Sound Disorders*, MGH Institute of Health Professions.
- 2017 "Childhood Apraxia of Speech." *Speech Sound Disorders*, MGH Institute of Health Professions.
- 2017 "Music and well-being: a neurodevelopmental perspective." *Psychology of Music*, Chapman University, Orange, CA.
- 2017 "Evaluating programs for system-wide change: basis of evidence-based practice." *Leading Literacy Change*, MGH Institute of Health Professions.
- 2017 "Childhood apraxia of speech: considerations for diagnosis and treatment." *Speech Sound Disorders*, Emerson College, Boston, MA.
- 2017 "Examining how music relates to language, literacy, and brain function." *Music, Mind, and Brain*, Northeastern University.
- 2016 "Childhood Apraxia of Speech." *Speech Sound Disorders*, MGH Institute of Health Professions.

**Trainees and Mentoring****Postdoctoral Trainees**

- Juliana Ronderos, Ph.D. 2022-Present  
 NIH NRSA (F32): *Longitudinal trajectories of white matter and reading development in bilingual children*  
 NIH LRP: *Developmental trajectories and putative compensatory neural mechanisms in bilingual struggling readers*  
 ASH Foundation New Investigators Research Grant: *The role of parental factors in predicting language abilities among Spanish-English bilingual children*  
 Sargent College Student Research Grant, Boston University: *Bilingual parents' beliefs and self-efficacy perceptions influencing parent-child shared reading*
- Caroline Spencer, Ph.D. (co-mentor with Prof. Jana Iverson 2022-2023) 2021-2023  
 Hartwell Postdoctoral Fellow

**Doctoral Students**

- Alexandra Kapadia, Boston University 2022-2024  
 Dissertation: *Functional connectivity of the speech network in relation to reading skill in school-age children*
- Kelsey Davison, Boston University 2020-Present  
 Sargent College Student Research Grant, Boston University: *Examining parental oral reading prosody in relation to children's language and emergent literacy skills*  
 Winner of Paula Menyuk Award at the Boston University Conference on Language Development (BUCLD)
- Talia Liu, Boston University 2022-Present
- Viviana Castro, Rotation Student, Program in Neuroscience, Boston University 2024
- Arielle Moore, Rotation Student, Program in Neuroscience, Boston University 2022
- Juliana Ronderos, Visiting Student from University of Houston 2021-2022
- Michelle Hernandez, Visiting Student from University of Houston 2021-2022

**Master's Students**

- Aiko Jones, (MS-PhD), Boston University 2023-Present
- Caroline Strang, Boston University 2023-Present
- Marion Kalina Heinrich, Boston University 2023-Present
- Caroline Goldman, Boston University 2022-Present
- Antonia Nikolaidou, University of Groningen 2023-2024

*(Updated October 2024)*

Thesis: <i>Speech prosody and social communication skills in autistic children and adolescents</i>	
Natalie Tewksbary, Boston University	2023-2024
Thesis: <i>Examining subskills associated with speech production accuracy: considerations for preschoolers at behavioral risk for dyslexia</i>	
Mercedes Caridad Valladares, Boston University	2022-2023
Thesis: <i>Parental oral reading prosody during shared reading experiences: Associations with parental language and reading skills and parent-child conversational interactions</i>	
Sylvia Gisler, Boston University	2022-2023
Thesis: <i>Examining the relation between motor skills and emerging language abilities in infancy</i>	
Laura Doherty, Undergraduate and Graduate (Master's), Boston University	2020-2023
Undergraduate thesis: <i>The relationship between parental prosody and child language output during shared book reading</i>	
Master's thesis: <i>The expressiveness of mothers' storybook reading in relation to Children's emerging language abilities in toddlerhood</i>	
Meritorious Poster recognition at the 2023 American Speech Language-Hearing Association annual convention	
Hannah Stetson, Boston University	2020-2022
Thesis: <i>Parent-child conversational interactions during shared book reading in toddlerhood in relation to child language status</i>	
Rebecca Gupta, Boston University	2021-2023
Laura Nagy, MGH Institute of Health Professions	2022
Sophia Gomez, Boston University	2020-2022
Nora Jamouille, University of Groningen	2019-2020
Thesis (lead PI: Prof. Nadine Gaab): <i>To what extent is musical training in childhood associated with structural alterations reflected in cortical thickness and gray matter volume in brain regions important for reading?</i>	
Marjolein Mues, University of Groningen	2018-2019
Thesis (lead PI: Prof. Nadine Gaab): <i>Clarifying the relationship between early speech-sound production and later literacy outcomes</i>	
Joseph Sanfilippo, Harvard Graduate School of Education	2015-2016
<b><i>Undergraduate Students</i></b>	
Sarah Finnegan, Boston University	2024-Present
Jovie Reyes, Boston University	2024-Present
Marie Murray, Boston University	2022-Present
UROP Student Research Award Winner	
Marion Bensing, Boston University	2023-2024
UROP Student Research Award Winner	
Tomo Curran, Boston University	2022-2024
UROP Student Research Award Winner	
Therese Ancheta, Boston University	2022-2023
Thesis: <i>Identifying neural correlates of speech prosody in children with autism spectrum disorder</i>	
UROP Student Research Award Winner	
Sebastian Romani, Boston University	2022
UROP Student Research Award Winner	
Ione Madsen Hardy, Boston University	2021-2022
UROP Student Research Award Winner	
Mina Cho, Boston University	2022
Shana Kilcawley, Boston University	2021
UROP Student Research Award Winner	
Nivedita Ravi, Harvard University	2020-2022
Thesis (lead PI: Prof. Nadine Gaab): <i>Examining relationships between the music environment and white matter organization in infancy</i>	
Chloe Li, Undergraduate, Harvard University	2018-2020
Thesis (lead PI: Prof. Nadine Gaab): <i>Examining links between music, emotion, and reading: An investigation of structural brain differences in school-aged children with and without musical training and dyslexia</i>	
Julia Moss, Undergraduate, Tufts University	2019-2020
Rachael Dawson, Undergraduate, Harvard University	2016-2018
Thesis (lead PI: Prof. Nadine Gaab): <i>Characterizing the music environment of young children by developing a novel questionnaire for the investigation of corresponding relationships with brain structure</i>	

(Updated October 2024)

## **Professional Activities**

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### **Training and Certifications**

2020	Certificate of Clinical Competence in Speech-Language Pathology (CCC-SLP)
2020	Ethical Training for Research on Human Subjects, Boston University
2015	Neurologic Music Therapy Training, Berklee College of Music
2011	MRI Safety Training, Massachusetts Institute of Technology, Athinoula A. Martinos Imaging Center, McGovern Institute for Brain Research
2009	Psychoeducational Assessments Administration, Harvard Graduate School of Education
2009	Two-year Provisional Educator's License (K-12), Ohio Department of Education

### **Academic Service**

#### *Service to the University*

2023-Present	Member, Undergraduate Senior Awards Committee
2022-Present	Student Academic Advising (5-10 per year)
2021-2022	Member, Tenure-Track Assistant Professor Search Committee
2021-2022	Member, Senior Thesis for Distinction Review Committee
2012-2018	Admissions Social Committee Chair, Harvard Speech and Hearing Bioscience and Technology (SHBT) Program

#### *Service to the Profession*

2023-2024	American Speech-Language-Hearing Foundation University Giving Program Ambassador
2023-2024	Member, American Speech-Language-Hearing Association (ASHA) Convention Committee on Literacy Assessment and Intervention
2023	Reviewer, International Conference on Music Perception and Cognition (ICMPC)
2021-2023	Member, National Science Foundation Biology of Prosody Advisory Board
2020-2022	Member, ASHA Convention Committee on Speech-Sound Disorders
2022	Reviewer, Society for Music Perception and Cognition 2022 Conference
2017-2019	Society for Music Perception and Cognition (SMPC) Trainee Board Member
2016, 2019	Planning Committee member for the Northeast Music Cognition Group annual meeting

### **Symposia**

2024	'Rhythmic and metric pathways into language and reading development' Symposium organizer for the Society for Music Perception and Cognition Conference; Banff, Alberta.
2023	'Resilience in learning to read with dyslexia' Symposium speaker for the International Dyslexia Association annual meeting; Columbus, OH.
2023	International Association for Music and Medicine, Swedish Perspectives on Music/Health Research (Moderator); Boston MA
2017	Society for Music Perception and Cognition 'Pursuing Graduate School' Panel (Moderator); San Diego, CA
2017	Society for Music Perception and Cognition 'Early Career' Panel (Moderator); San Diego, CA
2014	'Beyond the Concert Hall' Symposium: Recent Developments in Music and Science (Moderator); Cambridge, MA

### **Consulting**

2017- 2020	Assist with development of an evidence-based K-8 music curriculum specifically designed to be accessible to students with dyslexia and ADHD at the Southport School; Southport, CT
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### **Journal Editorial Board**

2021-Present	<i>Journal of Speech, Language, and Hearing Research</i>
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**Ad-hoc Journal Review**

*Annals of the New York Academy of Sciences*  
*Auditory Perception and Cognition*  
*Child Development*  
*Cognitive Development*  
*Computer Speech & Language*  
*Developmental Psychology*  
*Developmental Cognitive Neuroscience*  
*Developmental Science*  
*International Journal of Speech-Language Pathology*  
*Journal of Cognitive Science*  
*Journal of Communication Disorders*  
*Journal of Experimental Psychology: General*

*The Journal of Maternal-Fetal & Neonatal Medicine*  
*Language, Speech, and Hearing Services in Schools*  
*Language and Linguistics Compass*  
*Music & Science*  
*Neuroimage*  
*Neuroimage: Clinical*  
*Pediatrics*  
*PLOS ONE*  
*Psychology of Music*  
*Psychomusicology*  
*Research in Autism Spectrum Disorders*  
*Scientific Reports*

**Professional Affiliations**

American Speech and Hearing Association (ASHA)  
Society for the Neurobiology of Language (SNL)  
Society for Music Perception and Cognition (SMPC)  
Society for the Scientific Study of Reading (SSSR)  
Association for Psychological Science (APS)  
Cognitive Neuroscience Society (CNS)  
American Congress of Rehabilitation Medicine (ACRM)  
International Association for Music and Medicine (IAMM)  
Fetal, Infant, Toddler Neuroimaging Group (FIT'NG)

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