

Jennifer Zuk, PhD, CCC-SLP

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jzuk@bu.edu • 978-505-8817 • <https://sites.bu.edu/zuklab/>**Current Position**

Boston University, Boston, MA	2020 - Present
Assistant Professor , 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

Boston Children's Hospital/Harvard Medical School, Boston, MA	2018 - 2020
Postdoctoral Research Fellow, Laboratories of Cognitive Neuroscience	
Spaulding Rehabilitation Hospital, Boston, MA	2018 - 2020
Clinical Fellow in Speech-Language Pathology	
Harvard University, Cambridge, MA	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>	
MGH Institute of Health Professions, Charlestown, MA	2015
Training for Certificate of Clinical Competence in Speech-Language Pathology (CCC-SLP)	
Harvard Graduate School of Education, Cambridge, MA	2010
Ed. M. in Mind, Brain, and Education	
Case Western Reserve University, Cleveland, OH	2009
Dual Degree: B.S. in Music Education & B.A. in Cognitive Science, <i>cum laude</i>	

Awards and Honors

American Speech-Language-Hearing Association (ASHA) Early Career Contributions in Research Award	2021
Cognitive Neuroscience Society Postdoctoral Fellowship Award	2020
Harvard University Distinction in Teaching Award	2019
Harvard Brain Initiative Young Scientist Travel Award	2019
Harvard University Distinction in Teaching Award	2018
Albert J. Ryan Fellow	2017
Society for Music Perception and Cognition Student Award	2015
Mariani Foundation Scholarship for the Neurosciences & Music V conference	2014
Harvard Graduate School of Arts & Sciences Summer Research Grant	2014
Harvard Graduate School of Arts & Sciences Conference Grant	2014
The Doris Young Hartsock Prize for outstanding performance in music education	2009
Case Western Reserve University Creative All-Star Award	2009
Cleveland Music School Settlement honored volunteer award in music therapy	2009
Mortar Board National College Senior Honor Society	2008
Who's Who in American Universities and Colleges	2007

(Updated May 2022)

Professional Recognition

Peer-Reviewed Publications:

1. **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.
2. **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.
3. Yu, X., Ferradal, S. Sliva, D., Dunstan, J., Carruthers, C., Sanfilippo, J., **Zuk, J.**, Zollei, 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*, *00*, 1-12.
4. 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.
5. 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.
6. **Zuk, J.**, Purdue, M., 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.
7. **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.
8. 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.
9. **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.
10. Yu, X., Raney, T., Purdue, 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.
11. 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.
12. **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.
13. 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.
14. 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.
15. **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.
16. 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.
17. **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.
18. **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.

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(Peer-Reviewed Publications, Continued)

19. 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.
20. 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.
21. 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.
22. 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

23. 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.
24. 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*, 101083.

In Submission:

25. Spencer, C., Davison, K., Boucher, A., **Zuk, J.** Speech Perception Variability in Childhood Apraxia of Speech: Implications for Diagnosis and Treatment. [under review]
26. Andrade, P., Mullensiefen, D., Andrade, O., Dunstan, J., **Zuk, J.**, Gaab, N. Sequence Processing in Music predicts Reading Skills in Young Brazilian Readers: A Longitudinal Study. [under review]

Preprints (under review):

27. **Zuk, J.**, Vanderauwera, J., Turesky, T., Yu, X., Gaab, N. Neurobiological predispositions for musicality: White matter in infancy predicts school-age music aptitude. [<https://www.researchsquare.com/article/rs-1578183/v1>]
28. **Zuk, J.**, Loui, P., Guenther, F. Neural Control of Speaking and Singing: The DIVA Model for Singing. [<https://psyarxiv.com/xqtc9>]
29. Davison, K.*, **Zuk, J.***, Mullin, L., Ozernov-Palchik, O., Norton, E., Gabrieli, J.D.E., Yu, X., Gaab, N. Examining shared book reading and white matter organization in kindergarten in relation to subsequent language and reading abilities: a longitudinal investigation [<https://osf.io/tmz97>].
30. Mues, M.*, **Zuk, J.***, Norton, E., Gabrieli, J., Hogan, T.P., Gaab, N. Clarifying the relationship between early speech-sound production abilities and subsequent reading outcomes [<https://osf.io/zx2k3/>].
*Authors contributed equally
31. 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. Home literacy environment mediates the relationship between socioeconomic status and white matter structure in infants [<https://doi.org/10.1101/2021.11.13.468500>].
32. Yu, X., Ferradal, S., Dunstan, J., Carruthers, C., Sanfilippo, J., **Zuk, J.**, Zöllei, L., Gagoski, B., Ou, Y., Grant, P.E., Gaab, N. Atypical functional connectivity of the left fusiform gyrus in infants at familial risk for developmental dyslexia. [<https://www.medrxiv.org/content/10.1101/2022.02.24.22271455v1>]
33. 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:

- 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. *The Routledge International Handbook of Learning with Technology in Early Childhood*. Taylor & Francis Group.

(Book Chapters, Continued)

Raschle, N.M., Lee, L., Stering, 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, MD: Brookes Publishing Co.

Magazine Article:

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

Interviewed Article:

Fleisher, N. (2009). Where science meets the arts (featuring Kimberly Stegmaier, Jennifer Zuk, and Tom Kirchhausen). *Vector Magazine: Research Discoveries and Innovations from Children's Hospital Boston*.

Research Funding

Active

Hartwell Foundation	2022 - 2025
Individual Biomedical Research Award	
<i>Title:</i> Neurobiological Basis of Speech Patterns as a Biomarker for Autism Spectrum Disorder in Early Childhood	
<i>Role:</i> Principal Investigator	
The Dyslexia Foundation	2022 - 2023
The Albert M. Galaburda Research Award	
<i>Title:</i> Investigating parental oral reading prosody in relation to preschool children's emergent language and literacy skills	
<i>Role:</i> Principal Investigator	
Boston University Institute for Early Childhood Well-Being	2022 - 2023
University-Community Partnership Research Award	
<i>Title:</i> Motor Function and Language Development in Infants At-risk for Neurodevelopmental Disorders	
<i>Role:</i> Co-Principal Investigator	

Completed

Sackler Foundation	2017 - 2018
Sackler Scholar in Psychobiology	
<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	2016
Graduate Student Award	
American Speech-Language-Hearing Foundation	2015
New Century Scholars Doctoral Scholarship	
National Institutes of Health, National Institute of Deafness and Other Communication Disorders	2012 - 2015
Institutional Pre-Doctoral Training Grant	

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Conference Presentations

Oral Presentations:

- Zuk, J.**, Mues, M., Norton, E., Becker, B., Hogan, T.P., Gabrieli, J., Gaab, N. Clarifying the relationship between early speech-sound production abilities and subsequent reading outcomes. Proposal accepted for the Annual Convention of the American Speech-Language-Hearing Association. Washington, D.C.; November, 2021.
- 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. Proposal 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, Colorado; November 2015.
- Zuk, J.**, Becker, B., Norton, E., Ozernov-Palchik, O., Beach, S., Mauer, M., Hogan, T.P., Gabrieli, 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:

- Davison, K.⁺, Gomez, S., Boucher, A., **Zuk, J.** Parental self-efficacy in relation to reading history and children's home literacy environments. Poster presentation accepted for the upcoming 29th Annual Conference of the Society for the Scientific Study of Reading (SSSR); July 2022.
- Davison, K.⁺, **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.
- Zuk, J.**, Davison, K., 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.⁺, 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 CNS meeting of the Cognitive Neuroscience Society (CNS). Virtual meeting due to COVID-19 pandemic; March 2021.
- Ravi, N.⁺, **Zuk, J.**, Garrisi, K., Lee, A., Vanderauwera, J., Turesky, T., Dunstan, J., Davison, K., 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.
- Zuk, J.**, Vanderauwera, J., Lee, A.M. Gonzalez, M., Dunstan, J., Turesky, T.K., Rubez, D., Yu, X., Grant, P.E., & Gaab, N. Evaluating predispositions for music training: white matter in infancy relates to music aptitude abilities in preschool. 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).
- 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).
- Zuk, J.**, Figuccio, M., Yu, X., Sanfilippo, J., Dunstan, J., Carruthers, C., Grant, E., Gaab, N. Relationships between white matter in infancy and subsequent language abilities in preschool. Poster presentation at the Twenty-Fifth Annual Cognitive Neuroscience Society Meeting. Boston, MA; March 2018.
- Zuk, J.**, Figuccio, M., Yu, X., Sanfilippo, J., Dunstan, J., Carruthers, C., Langer, N., Grant, E., Gaab, N. Examining early indicators of dyslexia: tracking brain and behavioral correlates of language and literacy development from infancy to school age. Poster presentation at the Neurodevelopmental Disorders Symposium. Boston, MA; October 2017.
- Zuk, J.**, Figuccio, M., Yu, X., Sanfilippo, J., Dunstan, J., Carruthers, C., Grant, E., Gaab, N. Examining relationships between brain structure in infancy and subsequent language skills in preschool. Poster presentation at the 6th International Conference on the Auditory Cortex. Banff, Alberta; Sept. 2017.

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(Selected Conference Poster Presentations, Continued):

- Zuk, J.**, Becker, B., Perdue, M., Yu, X., Wang, Y., Chang, M., Raschle, N., Gaab, N. Neural correlates of phonological processing: disrupted in children with reading impairment and enhanced in children with musical training. Poster presentation at the Neurosciences and Music - VI: Music, Sound and Health. Boston, MA; June 2017.
- Zuk, J.**, Dunstan, J., Norton, E., Ozernov-Palchik, O., Wang, Y., Gabrieli, J.D.E. & Gaab, N. Investigating protective and compensatory mechanisms in kindergarteners at risk for reading impairment who subsequently develop typical reading skills. Poster presentation at the Association for Psychological Sciences Annual Convention. Boston, MA; May 2017.

⁺Indicates trainees

Invited Lectures / Professional Development Presentations

- Zuk, J.** (2021). Introduction to Language Disorders. Guest lecture for course in *Language Development*, Beijing Normal University, 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). Musical Training as a Framework for Brain Plasticity: Implications for Music, Language, and Literacy. Guest lecture for course in *Music, Brain Development, and Learning*, New England Conservatory, Boston, 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. 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 postponed due to COVID-19 pandemic).
- Zuk, J.** (2020). Music and Brain Symposium. Invited speaker for Symposium, South Shore Conservatory, Hingham, MA (Symposium postponed due to COVID-19 pandemic).
- Zuk, J.** (2020). Sowing seeds of literacy: Links between music and reading along the neurodevelopmental trajectory. Guest lecture for course in *Cognitive Neuroscience*, Tufts University, Somerville, MA.
- Zuk, J.** (2020). Evaluating music-based training as a framework for neuroplasticity: Implications for speech and language. Dept of Speech-Language Pathology Education Meeting, Spaulding Rehabilitation Hospital, Boston, MA.
- Zuk, J.** (2019). Childhood Apraxia of Speech. Guest lecture in graduate course: *Speech Sound Disorders*, MGH Institute of Health Professions, Boston, MA.
- Zuk, J.** (2019). Music & Neuroscience: Implications for Speech and Language Development. Presentation for the Meeting of the Minds at Spaulding Rehabilitation Hospital, Boston, MA.
- Zuk, J.** (2018). Musical Training as a model for brain plasticity: Clinical Applications. Guest lecture in undergraduate course: *Introduction to Music*, Kutztown University, Kutztown, Pennsylvania.
- Zuk, J.** (2018). Neuromusic: linking music, language, and literacy. Presentation for the Southport School Community Lecture Series, Southport, CT.
- Zuk, J.** (2018). Neurodiversity in the Music Classroom. Presentation for VSA Music Education and Special Needs Study Group at Berklee College of Music, Boston, MA.
- Zuk, J.** (2018). Childhood Apraxia of Speech. Guest lecture in graduate course: *Speech Sound Disorders*, MGH Institute of Health Professions, Boston, MA.
- Zuk, J.** (2017). Childhood Apraxia of Speech. Guest lecture in graduate course: *Speech Sound Disorders*, MGH Institute of Health Professions, Boston, MA.
- Zuk, J.** (2017). Music and well-being: a neurodevelopmental perspective. Guest lecture in undergraduate course: *Psychology of Music*, Chapman University, Orange, CA.

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(Invited Lectures / Professional Development Presentations, Continued)

- Zuk, J.** (2017). The potential role of musical training in facilitating reading development. Presentation for higher administration of the Southport School, Southport, CT.
- Zuk, J.** (2017). Evaluating programs for system-wide change: basis of evidence-based practice. Guest lecture in graduate course: *Leading Literacy Change*, MGH Institute of Health Professions, Boston, MA.
- Zuk, J.** (2017). Childhood apraxia of speech: considerations for diagnosis and treatment. Guest lecture in undergraduate course: *Speech Sound Disorders*, Emerson College, Boston, MA.
- Zuk, J.** (2017). Examining how music relates to language, literacy, and brain function. Guest lecture in undergraduate course: *Music, Mind, and Brain*, Northeastern University, Boston, MA.
- Zuk, J. & Lewis, C.** (2017). Music of difference: Disability, creativity, and social change. Presentation for ArtSenses Talk Series at Le Laboratoire, Cambridge, MA.
- Zuk, J.** (2017). Childhood apraxia of speech: considerations for diagnosis and treatment. Guest lecture in undergraduate course: *Speech Sound Disorders*, Emerson College, Boston, 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. 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. Presentation for speech-language pathologists at Clearly Speaking, Londonderry, NH.
- Zuk, J.** (2016). Childhood Apraxia of Speech. Guest lecture in graduate course: *Speech Sound Disorders*, MGH Institute of Health Professions, Boston, MA.
- 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.
- Zuk, J.** (2015). Linking music, language, and literacy. Presentation for teachers for the Wheeler School Professional Development Day, Providence, RI.
- Zuk, J.** (2015). Associations between musical training, executive functioning, and the brain. 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. Presentation for the Laboratories of Cognitive Neuroscience meeting, 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

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

Teaching Experience

At Boston University

Cognition and Neural Bases, SAR SH756

Fall 2020, 2021

Language Acquisition, SAR SH 524

Spring 2021, 2022

Other teaching

The Role of Music in Health and Education, Teaching Fellow

Fall 2017, 2018

Music and Disability, Teaching Fellow

Spring 2016, 2017, 2019

Harvard University, Cambridge, MA

Typical and Atypical Neural Development, Teaching Fellow

Fall 2015, 2016

Harvard Graduate School of Education, Cambridge, MA

Cognition, Teaching Assistant

Fall 2014

Language, Culture, and Cognition, Teaching Assistant

Summer 2015

MGH Institute of Health Professions, Boston, MA

Student Mentoring

Alexandra Kapadia, Graduate (Doctoral), Boston University	2022-Present
Mercedes Caridad Valladares, Graduate (Master's), Boston University	2022-Present
Sylvia Gisler, Graduate (Master's), Boston University	2022-Present
Therese Ancheta, Undergraduate, Boston University	2022-Present
Ione Madsen Hardy, Undergraduate, Boston University	2021-Present
Shana Kilcawley, Undergraduate, Boston University	2021-Present
Rebecca Gupta, Graduate (Master's), Boston University	2021-Present
Juliana Ronderos, Graduate (Doctoral), Visiting Student from University of Houston	2021-Present
Michelle Hernandez, Graduate (Doctoral), Visiting Student from University of Houston	2021-Present
Kelsey Davison, Graduate (Doctoral), Boston University	2020-Present
Hannah Stetson, Graduate (Master's), Boston University	2020-Present
Sophia Gomez, Graduate (Master's), Boston University	2020-Present
Laura Doherty, Undergraduate and Graduate (Master's), Boston University	2020-Present
Supervised Undergraduate thesis, entitled: <i>The Relationship between Parental Prosody and Child Language Output During Book Reading</i>	
Nivedita Ravi, Undergraduate, Harvard University	2020-Present
Supervised Undergraduate thesis, entitled: <i>Examining Relationships Between the Music Environment and White Matter Organization in Infancy</i>	
Nora Jamouille, University of Groningen	2019-2020
Chloe Li, Undergraduate, Harvard University	2018-2020
Supervised Undergraduate thesis, entitled: <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
Marjolein Mues, Graduate (Master's), University of Groningen	2018-2019
Supervised Master's thesis, entitled: <i>Clarifying the relationship between early speech-sound production and later literacy outcomes</i>	
Rachael Dawson, Undergraduate, Harvard University	2016-2018
Supervised thesis, entitled: <i>Characterizing the music environment of young children by developing a novel questionnaire for the investigation of corresponding relationships with brain structure</i>	
Shani Kempler, Undergraduate, University of Wisconsin-Madison	Summer 2016
Joseph Sanfilippo, Graduate (Master's), Harvard Graduate School of Education	2015-2016

(Updated May 2022)

Professional Activities

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

- 2017-2019 Society for Music Perception and Cognition (SMPC) Student Board Member
 2012-2018 Admissions Social Committee Chair, Harvard Speech and Hearing Bioscience and Technology (SHBT) Program
 2016, 2019 Planning Committee member for the Northeast Music Cognition Group annual meeting

Symposia

- 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 a K-8 music program that will be accessible to students with dyslexia and ADHD at the Southport School; Southport, CT

Journal Editorial Board

- 2021-Present *Journal of Speech, Language, and Hearing Research*

Ad-hoc Journal Review

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| <i>Annals of the New York Academy of Sciences</i> | <i>Language, Speech, and Hearing Services in Schools</i> |
| <i>Auditory Perception and Cognition</i> | <i>Language and Linguistics Compass</i> |
| <i>Child Development</i> | <i>Music & Science</i> |
| <i>Cognitive Development</i> | <i>Neuroimage</i> |
| <i>Developmental Psychology</i> | <i>Neuroimage: Clinical</i> |
| <i>Developmental Cognitive Neuroscience</i> | <i>Pediatrics</i> |
| <i>Developmental Science</i> | <i>PLoS ONE</i> |
| <i>International Journal of Speech-Language Pathology</i> | <i>Psychology of Music</i> |
| <i>Journal of Cognitive Science</i> | <i>Psychomusicology</i> |
| <i>Journal of Communication Disorders</i> | <i>Research in Autism Spectrum Disorders</i> |
| <i>Journal of Experimental Psychology: General</i> | <i>Scientific Reports</i> |

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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