

Christina M. Vanden Bosch der Nederlanden
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Professional & Academic Appointments

2022 - Present	Director, Language, Attention, Music and Audition (LAMA) Lab
2022 - Present	Assistant Professor, University of Toronto Mississauga, Department of Psychology, Mississauga, Ontario, Canada
2018 - 2021	NSERC CREATE Complex Dynamics Postdoctoral Fellow, Brain and Mind Institute, Western University, London, Ontario, Canada
2018, 2019	Visiting Researcher, Donders Institute for Brain, Cognition, and Behaviour, Radboud University, Nijmegen, Netherlands
2016 - 2018	Western Cognitive Neuroscience Postdoctoral Fellow The Brain and Mind Institute, Western University, London, Ontario, Canada
2015 - 2016	Barrick Research Fellow University of Nevada, Las Vegas

Education

2016	Ph.D., Experimental Psychology: Developmental Emphasis University of Nevada Las Vegas Advisor: Professors Erin E. Hannon and Joel S. Snyder Dissertation: <i>Building categories to guide behavior: How humans build and use auditory category knowledge throughout the lifespan.</i>
2016	M.A., Experimental Psychology: Developmental Emphasis University of Nevada Las Vegas Advisor: Professors Erin E. Hannon and Joel S. Snyder Thesis: <i>The role of music-specific representations when processing speech: Using a musical illusion to elucidate domain-specific and domain-general processes</i>
2008	B.A., Psychology, Minor Music Calvin University Grand Rapids, Michigan, USA

Career Interruptions

2024-2025	Parental Leave (July 2024 – February 2025)
2020-2021	COVID-19 part-time childcare (August 2020 – October 2021)
2019-2020	Parental Leave (August 2019 – August 2020)

Research Interests

Music perception and cognition, music and language comparisons, auditory development, auditory cognitive neuroscience, auditory scene perception

Research Funding (Awarded unless noted as submitted)

2024-2026	Connaught Fund New Researcher Award <i>\$22,000</i>
2024-2029	CIHR Project Grant Neural tracking of speech in developing brains Lead-PI, Marc Joanisse & Laura Batterink, with Collaborator Christina Vanden Bosch der Nederlanden <i>\$970,000</i>
2024	SSHRC Institutional Grant (SIG) Development of Musical and Linguistic Knowledge Lead-PI, Doug VanderLaan, with Co-PIs Christina Vanden Bosch der Nederlanden, Samuel Ronfard, and Elizabeth Johnson <i>\$3,720</i>
2023-2025	Grammy Museum Foundation Lead PI: Christina Vanden Bosch der Nederlanden, co-PI: Anna Czepiel 20,000 USD
2023	SSHRC Institutional Grant (SIG) Development of Musical and Linguistic Knowledge Lead-PI, Doug VanderLaan, with Co-PIs Christina Vanden Bosch der Nederlanden, Samuel Ronfard, and Elizabeth Johnson <i>\$3,649</i>
2023	University of Toronto Research Infrastructure Support Program (RISP) Lead PI, with Co-PIs Kei Fukuda, Doug VanderLaan, and Elizabeth Johnson <i>\$4,000</i>
2022	SSHRC Institutional Grant (SIG) Development of Musical and Linguistic Knowledge Lead-PI, Doug VanderLaan, with Co-PIs Christina Vanden Bosch der Nederlanden, Samuel Ronfard, and Elizabeth Johnson <i>\$4,482</i>
2022-2027	Natural Sciences and Engineering Research Council (NSERC) Discovery Grant “Predicting listeners’ attentional bias toward the human voice: perceptual neural, and semantic factors.” <i>\$165,000 (\$33,000/year)</i>
2022-2027	Natural Sciences and Engineering Research Council (NSERC) Discovery Launch Supplement <i>\$12,500</i>
2018-2020	NSERC CREATE Complex Dynamics Postdoctoral Competition (2 years) <i>\$80,000</i>
2018, 2019	Research Exchange Competition in Nijmegen, The Netherlands (2 Awards)

Western University's The Brain and Mind Institute
 Radboud University's Donders Center for Cognitive Neuroimaging
 \$18,000

2016-2018 Postdoctoral Fellowship Competition (2 years)
 The Brain and Mind Institute's Cognitive Neuroscience Postdoctoral Fund
 Western University
 \$100,000

2015-2016 Barrick Graduate Fellowship Competition
 University of Nevada, Las Vegas
 \$15,000

2014-2015 Competitive Summer Session Scholarships (3 Awards)
 University of Nevada, Las Vegas
 \$7,000

2012-2016 Conference and Research Travel Grants (Competitive Funding)
 Graduate and Professional Student Association (GPSA) at UNLV
 \$3,950 (from 6 awards)

Awards

2023 Collaborative Program In Neuroscience (CPIN), Faculty Member
 2021 Early Career Award, Symposium for Cognitive Auditory Neuroscience, Roundtable 3
 2021 Postdoctoral Position, Carnegie Mellon University–Birkbeck, University of London (Offered)
 2021 University of Washington, Auditory Neuroscience Training Grant Postdoc Fellowship (Awarded)
 2021 Top Ten Finalist, Western University 3-Minute Research Postdoc Competition
 2016 1st place poster (student names), Psi Chi Society Undergrad Poster Competition, UNLV
 2015 Travel award, From Cochlea to Cognition, University of Washington
 2015 Finalist and Audience Choice award, UNLV 3-Minute Thesis competition
 2015 2nd place poster (student names), CSUN Undergraduate Poster Conference, UNLV
 2014 Center for Human Adaptive Systems and Environments (CHASE) Summer School (UC Merced)
 2013 Best Graduate Poster, Inaugural Symposium on Music and Language Development, McGill University's Centre for Research on Brain, Language, and Music (CRBLM).

Publications

Refereed Journal Articles (student authors are underlined)

1. Bradley, H., Vanden Bosch der Nederlanden, C.M., and Cirelli, L.K. (2025). Listening to development: How electroencephalography informs infant language and music research. *Infant Behavior and Development*, 80, 102125. doi.org/10.1016/j.infbeh.2025.102125
2. Chhatwal, M., Sabetti-Franklin, S., Vanden Bosch der Nederlanden, C. M. (2024). *Characterizing rhythmic regularity in speech and song*. PsyArXiv. In *Rhythms of Speech and Language: Physiology, Cognition, Culture* (Forthcoming in 2025). Editors: Lars Meyer and Antje Strauß. Cambridge University Press. <http://languagecycles.com/rosal/> DOI: <https://doi.org/10.31234/osf.io/7tgrm>
3. Patrick E Savage, Adwoa Ampiah-Bonney, Aleksandar Arabadjiev, Adwoa Arhine, Juan F Ariza, Joshua S Bamford, Brenda Suyanne Barbosa, Ann-Kathrin Beck, Michel Belyk, Emmanouil Benetos, Joseph A Bulbulia, Anne Cabildo, Sasha Calhoun, Gakuto Chiba, Stephen Ithel Duran, Ulvhild Færøvik, Tecumseh Fitch, Shinya Fujii, Shira Gabriel, Felix Haiduk, Niels Chr Hansen, Shantala

Hegde, Ferenc Honbolygó, Nori Jacoby, Yannick Jadoul, Zixuan Jia, Taeyun Jung, Csaba Kertész, Uswatun Khasanah, Inkuk Kim, Yoichi Kitayama, Wojciech Krzyżanowski, Urise Kuikuro, Dilyana Kurdova, Pauline Larrouy-Maestri, Juan David Leongómez, Fang Liu, Teona Lomsadze, Psyche Loui, Yiqing Ma, John McBride, Dayna Moya, Rogerdisson Natsitsabui, Giacomo Novembre, Florence Ewomazino Nweke, Patricia Opondo, Yuto Ozaki, Hineatua Parkinson, Mark Lenini Parselelo, Danya Vivianne Pavlovich, Peter Pfordresher, Katarzyna Pisanski, Piotr Podlipniak, Tudor Popescu, Polina Proutskova, Suzanne Purdy, Andrea Ravnani, Limor Raviv, Dhwani P Sadaphal, Swayambhu Ratna Shakya, Dor Shilton, Javier Silva-Zurita, Ignacio Soto-Silva, Bronwyn Tarr, Adam Tierney, Prapatsorn Tiratanti, Laurel Trainor, **Christina der Nederlanden**, Marco Antonio Correa Varella, Shahaboddin Dabaghi Varnosfaderani, Mason Youngblood, Roberto Zariquiey. (2025) *Does singing enhance cooperation more than speaking does? A global experimental Stage 1 Registered Report*, PsyArXiv (PCI-RR) https://doi.org/10.31234/osf.io/pv3m9_v3

4. Yu, C.Y., Cabildo, A., Grahn, J., and Vanden Bosch der Nederlanden, C.M. (2023). Perceived rhythmic regularity is greater for song than speech: Examining acoustic correlates of rhythmic regularity in speech and song. *Frontiers In Auditory Cognitive Neuroscience*, The Musical Brain – Volume II
5. Yerkes, B., Vanden Bosch der Nederlanden, C. M., Beasley, J., Hannon, E., & Snyder, J.S. (2023). Acoustic and Semantic Processing of Auditory Scenes in Children with Autism Spectrum Disorders. *Journal of Autism and Developmental Disorders (JADD)*. PsyArXiv: <https://doi.org/10.31234/osf.io/tzak2>
6. Ozaki, Y., Tierney, A., Pfordresher, P.Q., McBride, J., Benetos, E., Proutskouva, P., Chiba, G., Liu, F., Jacoby, N., Purdy, S. C., Opondo, P., Fitch, W. T., Rocamora, M., Thorne, R., Nweke, F., Sadaphal, D., Sadaphal, P., Hadavi, S., Fujii, S., Choo, S., Naruse, M., Ehara, U., Sy, L., Parselelo, M. L., Anglada-Tort, M., Hansen, N.C., Haiduk, F., Ulvhild Færøvik, U., Magalhães, V., Krzyżanowski, W., Shcherbakova, O., Hereld, D. Brenda Suyanne Barbosa, B. S., Varella, M.A.C., van Tongeren, M., Dessiatnitchenko, P., Zar Zar, S., El Kahla, I., Farwanah, S., Muslu, O., Troy, J., Lomsadze, T., Kurdova, D., Tsope, C., Fredriksson, D., Arabadjiev, A., Sarbah, J.P., Arhine, A., Meachair, T.Ó., Silva-Zurita, J., Soto-Silva, I., Maripil, J., Millalonco, N.E.M., Ambrazevičius, R., Loui, P., Ravnani, A., Jadoul, Y., Larrouy-Maestri, P., Bruder, C. Aranariutheri, M.I., Teyxokawa, T. P., Kuikuro, U., Matis, T. U. P., Natsitsabui, R., Irurtzun, A., Sagarzazu, N. B., Raviv, L., Zeng, M., Varnosfaderani, S. D., Gómez-Cañón, J. S., Kolff, K., **Vanden Bosch der Nederlanden, C.M., Chhatwal, M., David, R.M.,** Setiawan, I.P.G., Lekakul, G., Borsan, V.N., Nguqu, N., and Savage, P. E. (2023). Globally, songs are slower, higher, and use more stable pitches than speech. *Scientific Advances*. Preprint: <https://doi.org/10.31234/osf.io/jr9x7>
7. Vanden Bosch der Nederlanden, C.M., Qi, X., Sequeira, S., Seth, P., Hannon, E. H., Grahn, J. A., Joannis, M. F., Hannon, E.E. (2022) Developmental changes in the categorization of speech and song. *Developmental Science: Special Issue on Music in Development*, Nov.23, e13346, Epub ahead of print.
8. Vanden Bosch der Nederlanden, C. M., Joannis, M. F., Grahn, J. A., Snijders, T. M., & Schoffelen, J.-M. (2022). Familiarity modulates neural tracking of sung and spoken utterances. *NeuroImage*, 252: 119049. doi:10.1016/j.neuroimage.2022.119049.
9. Vanden Bosch der Nederlanden, & C.M., Vouloumanos, A. (2021). Infant biases for detecting speech in complex scenes. *Developmental Psychology*, 57(9), 1411.

10. Vanden Bosch der Nederlanden, C.M., Joanisse, M.J., & Grahn, J.A. (2020). Music as a scaffold for listening to speech: Better neural phase-locking to song than speech. *Neuroimage*, 214:116767.
11. Vanden Bosch der Nederlanden, C.M., Zaragoza, C., Rubio-Garcia, A., Clarkson, E., & Snyder, J.S. (2018). Change detection in complex auditory scenes is predicted by auditory memory, pitch, and years of musical training. *Psychological Research*, 84(3), 585-601.
12. Vanden Bosch der Nederlanden, C.M., Snyder, J.S., Hannon, E.E. (2016). Children use object-level semantic knowledge to detect changes in complex auditory scenes. *Developmental Psychology*, 52(11), 1867-1877.
13. Irsik, V.C.*, Vanden Bosch der Nederlanden, C.M.*, & Snyder, J.S. (2016). Broad attention to multiple individual objects may facilitate change detection with complex auditory scenes. *Journal of Experimental Psychology, Human Perception and Performance*, 42(11), 1806-1817. *denotes equal contribution
14. Vanden Bosch der Nederlanden, C.M., Hannon, E.E., & Snyder, J.S. (2015). Finding the music of speech: Musical knowledge influences pitch processing in speech. *Cognition*, 143, 135-140.
15. Vanden Bosch der Nederlanden, C.M., Hannon, E.E., & Snyder, J.S. (2015). Implicit musical knowledge is enough to perceive the speech-to-song illusion. *Journal of Experimental Psychology: General*, 144(2), e43-49.
16. Ullal-Gupta S., Vanden Bosch der Nederlanden C.M., Tichko P., Lahav A., & Hannon E.E., (2013) Linking prenatal experience to the emerging musical mind. *Frontiers in Systems Neuroscience*, 7:48. doi:10.3389/fnsys.2013.00048
17. Hannon, E.E., Vanden Bosch der Nederlanden, C.M., & Tichko, P. (2012). Effects of perceptual experience on children's and adults' perception of unfamiliar rhythms. *Annals of the New York Academy of Sciences*, 1252, 92-99.

Peer-Reviewed Chapters

1. Chhatwal, M., Sabetti-Franklin, S., Vanden Bosch der Nederlanden, C.M. Characterizing rhythmic regularity in speech and song. (2023). *Rhythms of Speech and Language*, Editors Lars Meyer and Antje Strauss, MPI HCBS, Leipzig, Germany, University of Konstanz. Cambridge University Press.
2. Taylor, J.E.T., Vanden Bosch der Nederlanden, C.M., & Grahn, J.A. (2021). What is Musical Genius? In W.F. Thompson & K. Olsen (Eds.), *The Science and Psychology of Music: From Beethoven at the Office to Beyonce at the Gym*.
3. Vanden Bosch der Nederlanden, C.M., Taylor, J.E.T., & Grahn, J.A. (2019). Neural Basis of Rhythm Perception. In M. Thaut & D. Hodges (Eds.), *The Oxford Handbook of Music and the Brain*.
4. Snyder, J.S., Vanden Bosch der Nederlanden, C.M., & Nave-Blodgett, J. (2016). Music Perception. In H.L. Miller (Ed.), *The SAGE Encyclopedia of Theory in Psychology*. Thousand Oaks, CA: SAGE Publications
5. Hannon, E.E., & Vanden Bosch der Nederlanden, C.M. (2014). Development. In W F. Thompson (Ed.), *Music in the Social and Behavioral Sciences, An Encyclopedia* (300-334). Los Angeles: SAGE Publications.

Non-Refereed Publications

1. (2022) Bonte, M., Ivinson, G., Merkley, R., Bain, P., Castles, A., Cheung, P., Clements, D., Cook, C., Cristia, A., Day-Hess, C., Dowker, A., Draper, C., Flewitt, R., Germein, S., Grigorenko, E., Grotzer, T., Hackett, A., Kathotia, V., Kievit, R., McBride, C., Sarama, J., Somerville, M., Strader, S. and Vanden Bosch der Nederlanden, C. 'Foundations of academic knowledge' in Bugden, S. and Borst, G. (eds.) *Education and the learning experience in Reimagining education: The International Science and Evidence based Education Assessment* [Duraiappah, A.K., Atteveldt, N.M. van et al. (eds.)]. New Delhi: UNESCO MGIEP.
2. (2022) Vanden Bosch der Nederlanden, C.M. Section Editor for Part II in *A Musician's Guide to Neuroscience in Music and the Brain for Musicians: Understanding the Research and Getting Involved*. Laura Stambaugh (July). Conway Publications.

Invited Talks (* denotes virtual presentation)

1. 2024, April: MUPRC Keynote, Calvin University, Grand Rapids, Michigan
2. 2023, August: SURF Keynote, UTM
3. 2023, February: Ebbinghaus Empire, University of Toronto St George
4. 2022, November: BRAMS-CRBLM Lecture Series, UdeM and McGill University
5. 2022, October: Applied Cognitive Neuroscience Group, Toronto Metropolitan University*
6. 2022, July: Music Cognition Group, Vanderbilt University*
7. 2020, November: SSHRC NextGen Scholars Monthly Meeting*
8. 2019, April: Max Planck for Institute for Psycholinguistics, Nijmegen, NL
9. 2018, November: Music Technology and Psychology Departments, NYU
10. 2018, January: Graduate Music Colloquium Series, Western University
11. 2017, December: CCRMA Hearing Seminar Series, Stanford University, Palo Alto, CA.

Selected Conference Presentations (student presenters underlined)

1. (2025) Vanden Bosch der Nederlanden, C.M. Revisiting the effect of Beat Facilitation on learning in adults and children. Symposium of Timing and Rhythm, Michigan State University, East Lansing, Michigan (Virtual Talk presentation due to border issues)
2. (2024) Cabildo, A., Vanden Bosch der Nederlanden, C.M. *Repeat after me: Exploring what children's speaking and singing reveals about their domain-specific knowledge* [Poster presentation]. Society for Music Perception and Cognition Conference, Banff, Alberta, Canada.
3. (2024) Liu, A. & Vanden Bosch der Nederlanden, C. M. *Language Background and Attention to Speech in Complex Auditory Scenes*. Poster presented at the Advances and Perspectives in Auditory Neuroscience 2024, Chicago, IL.
4. (2024) Kamassah, V. E., Czepiel A.M., & Vanden Bosch der Nederlanden, C.M. *Exploring Learning Math Through Parody Song: Facts and Application-Based Word Problems*. Virtual poster presented at NeuroMusic Conference, Hamilton, ON.
5. (2024) Kamassah, V. E., & Vanden Bosch der Nederlanden, C.M. *Investigating the Effect of Song on Learning Math-Based Facts and Concepts*. Poster presented at Canadian Psychological Association CPA Annual Convention, Ottawa, ON.
6. (2024) Chhatwal, M. & Vanden Bosch der Nederlanden, C.M. *Speech versus Song: Can Infants Tell Them Apart?* Poster presented at the 20th annual NeuroMusic Conference, Hamilton, Ontario, Canada.
7. (2024) Tavakoli, S., Amiel, M., Czepiel, A. M., Vanden Bosch der Nederlanden, C. M. *Are we better at conveying emotions through speech or song?* [Conference poster]. 20th Annual NeuroMusic Conference, Hamilton, Ontario, Canada.
8. (2024) Idris, R., Hafermann, J., Vanden Bosch der Nederlanden, C. M. *Surprise, Surprise - How musical surprises might benefit language learning in children and Adults* [Poster presentation]. NeuroMusic Conference, Hamilton, Ontario, Canada.
9. (2024) Idris, R., Vanden Bosch der Nederlanden, C. M. *The role of language proficiency on the perception of speech and song* [Poster Presentation]. 187th Acoustical Society of America Conference, virtual.
10. (2024) Czepiel, A. M., Vanden Bosch der Nederlanden, C. M. *Learning through song: Assessing neural tracking and comprehension*. [Talk]. Psychology Graduate Student Association, Toronto, Ontario, Canada.
11. (2024) Czepiel, A. M., Vanden Bosch der Nederlanden, C.M. *Neural tracking of sung and spoken narratives: investigating listening effort and engagement*. [Poster presentation]. Neurosciences and Music VIII, Helsinki, Finland.
12. (2024) Czepiel, A. M., Vanden Bosch der Nederlanden, C.M. *Learning through song: comparing neural tracking, and comprehension in song and speech*. [Poster presentation]. Society for Music

Perception and Cognition, Banff, Alberta, Canada.

13. (2024) Czepiel, A. M., Bradley, H., Vanden Bosch der Nederlanden, C. M., Johnson, E. K. *Neural Phase Synchronisation to Familiar and Unfamiliar Accents: Investigating the Role of Accent in Speech Processing*. [Poster presentation]. CUTTING EEG X (online).
14. (2024) Czepiel, A. M., Vanden Bosch der Nederlanden, C.M. *Neural tracking in the classroom: can song help with language learning?* [Poster presentation]. 20th Annual Neuromusic Conference, Hamilton, Ontario, Canada.
15. (2024) Czepiel, A., Vanden Bosch der Nederlanden, C.M. Learning Through Song: Assessing Neural Tracking, Engagement, and Comprehension. Cognitive Neuroscience Society, Toronto, Ontario, Canada. (Poster, Refereed Y, New)
16. (2024) Czepiel, A., Vanden Bosch der Nederlanden, C.M. Does rhythmic predictability aid learning? Investigating comprehension, listening effort, and neural tracking in speech and song. Symposium on Timing and Rhythm, Hamilton, Ontario, Canada. (Talk, Refereed Y, New)
17. (2024) Liu, A. & Vanden Bosch der Nederlanden, C. M. *Language Background and Attention to Speech in Complex Auditory Scenes*. The 47th Annual Association for Research in Otolaryngology (ARO) MidWinter Meeting, Anaheim, CA, United States. (Poster, Refereed Y, New)
18. (2024) Czepiel, A., Vanden Bosch der Nederlanden, C.M. Learning Through Song: Assessing Neural Tracking, Engagement, and Comprehension. Lake Ontario Visionary Establishment, Niagara Falls, Ontario, Canada. (Poster, Refereed Y, New)
19. (2023) Vanden Bosch der Nederlanden, C.M., Joannis, M., Trainor, L.J., & Grahn, J.A. Comparing the neural tracking of speech and song in infancy and adulthood. (November). Poster at the Advances and Perspectives in Auditory Neuroscience Annual Meeting in Washington D. C., USA.
20. (2023) Vanden Bosch der Nederlanden, C.M. Neural tracking of speech and song is predicted by subjective ratings of rhythmic regularity. Poster at the Society for Neuroscience Meeting (SfN) in Washington D.C., USA
21. (2023) Chhatwal, M. & Vanden Bosch der Nederlanden, C.M. (October). Speaking versus singing: can infants tell them apart? 19th Annual NeuroMusic Conference, Hamilton, Ontario, Canada. (Poster, Refereed Y, New)
22. (2023) Savage, P. E., Nayak, S., Liu, J., Vanden Bosch der Nederlanden, C.M., Ozaki, Y., Margulis, E. H. (August). Symposium on Music(ality) and Language. Talk, International Conference Music Perception and Cognition, Tokyo, Japan. (Talk, Refereed Y, Prev Listed)
23. (2023) Chhatwal, M. & Vanden Bosch der Nederlanden, C.M. (July). Does musical sensorimotor synchronization ability predict spontaneous synchronization in a speech task? Canadian Society for Brain, Behaviour, and Cognitive Science, Guelph, Ontario, Canada. (Poster, Refereed Y, New)
24. (2023) Vanden Bosch der Nederlanden, C.M., Yu, C.Y., Sabeti-Franklin, S., Cabildo, A., Chhatwal, M., Grahn, J. (June). Rhythmic regularity in music and language: What are the acoustic and neural correlates of the beat in speech and song. Rhythm Perception Production Workshop 19, Nottingham, UK. (Talk, Refereed Y, Prev Listed)

25. (2023) Sabetti-Franklin, S., Cabildo, A., and Vanden Bosch der Nederlanden, C.M. (June). The effect of regularity on hearing in busy listening settings. Summer School on Hearing In Noise, Center for Acoustic, Lyon, France. (Poster, Refereed Y, Prev Listed)
26. (2023) Cabildo, A., Vanden Bosch der Nederlanden, C.M. (May). Repeat after me: Exploring what children's speaking and singing reveals about their domain-specific knowledge. Psychology Graduate Students Association (PGSA) at the University of Toronto, Canada. (Poster, Refereed Y, New)
27. (2023) Cabildo, A., Vanden Bosch der Nederlanden, C.M. (May). Repeat after me: Exploring what children's speaking and singing reveals about their domain-specific knowledge. NeuroMusic Conference at McMaster University, Canada. (Poster, Refereed Y, New)
28. (2023) Liu, A., and Vanden Bosch der Nederlanden, C.M. (June). How does Native Language Expertise affect attention to speech in busy listening settings? Summer School on Hearing In Noise, Center for Acoustic, Lyon, France. (Poster, Refereed Y, New)
29. (2022) Vanden Bosch der Nederlanden, C.M., Grahn, J.A., & Joanisse, M.J. (August). Do reading and rhythm abilities relate to neural tracking of speech and song? Talk, Society for Music Perception & Cognition, Portland, Oregon.
30. (2022) Yu, C-Y., Grahn, J. A., & Vanden Bosch der Nederlanden, C.M. (August). Feel the beat, check the feeling: Rhythmic differences in speech and song. Poster, Society for Music Perception & Cognition, Portland, Oregon.
31. (2022) Woodruff-Carr, K.L., Vanden Bosch der Nederlanden, C.M., Trainor, L.J., Waxman, S. (August). Influences of Speech, Song, and Hummed Melodies on Infant Cognition. Poster, Society for Music Perception & Cognition, Portland, Oregon.
32. (2022) Joanisse, M.J., Moreau, C., & Vanden Bosch der Nederlanden, C.M. (June). Linking speech perception and phonology to reading disability via neural phase locking to speech. Talk, Annual Meeting of the Ensuring Full Literacy SSHRC PG at OISE.
33. (2022) Vanden Bosch der Nederlanden, C. M., Sequeira, S., Seth, P., Yu, C.Y., Qi, X., Joanisse, M. J., Trainor, L. J., & Grahn, J. A. (April). How do we differentiate speech from song in early childhood? Talk, Cognitive Neuroscience Society in San Francisco, CA, USA.
34. (2021) Vanden Bosch der Nederlanden, C.M., Joanisse, M., Grahn, J.A., Snijders, T.M., Schoffelen, J-M. (November). Perceived familiarity modulates phase-locking to speech and song. Talk, Advances and Perspectives in Auditory Neuroscience.*
35. (2021) Vanden Bosch der Nederlanden, C.M., Joanisse, M., Trainor, L. & Grahn, J. (August). Infants track the rhythms of speech and song. Poster, NSERC CREATE Complex Dynamics Symposium, Montreal, Quebec, Canada.*
36. (2021) Vanden Bosch der Nederlanden, C.M., Grahn, J. & Joanisse, M., (October). Neural tracking of speech and song in children with and without dyslexia. Slide Slam, Society for the Neurobiology of Language (SNL).*

37. (2021) Vanden Bosch der Nederlanden, C.M., Grahn, J., Joanisse, M., Snijders, T., & Schoffelen, J.-M. (February). Better Phase-Locking to Words Set to Familiar Music. Talk, 44th Annual MidWinter Meeting of The Association of Research in Otolaryngology (ARO).*
38. (2020) Vanden Bosch der Nederlanden, C.M., Joanisse, M., Trainor, L. & Grahn, J. (August). Infants track the rhythms of speech and song. Poster, NSERC CREATE Complex Dynamics Symposium, Montreal, Quebec, Canada.*
39. (2019) Qi, X., Vanden Bosch der Nederlanden, C.M., & Grahn, J. (August). Acoustic Characteristics used to Differentiate Speech from Song and Individual Factors that Impact their Effectiveness. Poster, Society for Music Perception and Cognition, New York City, NY, USA
40. (2019) Vanden Bosch der Nederlanden, C.M., Joanisse, M., & Grahn, J. (June). Better phase-locking to song than speech. Talk, Rhythm, Perception, & Production Workshop, Traverse City, MI, USA.
41. (2018) Vanden Bosch der Nederlanden, C.M., Joanisse, M., & Grahn, J. (August). Better phase-locking to song than speech in difficult listening conditions. Poster, Society for the Neurobiology of Language, Montreal, QC, Canada.
42. (2018) Vanden Bosch der Nederlanden, C.M., Joanisse, M., & Grahn, J. (May). Phase-locking to speech and song in children and adults. Talk, Auditory EEG Signal Processing (AESoP) Symposium, Leuven, Belgium.
43. (2017) Vanden Bosch der Nederlanden, C.M., Grahn, J., Joanisse, M. (October). Is there greater phase-locking to sung compared to spoken utterances? Poster, New England Research on Dyslexia Society (NERDY), Storrs, CT.
44. (2017) Vanden Bosch der Nederlanden, C.M., Grahn, J., Joanisse, M. (June). Entraining to the rhythms of speech and song. Poster, Neurosciences and Music – VI, Boston, MA.
45. (2017) Vanden Bosch der Nederlanden, C.M., Grahn, J., Joanisse, M. (June). Entraining to the rhythms of speech and song. Talk, Neural Entrainment and Rhythm Dynamics (NERD), Boston, MA.
46. (2017) Vanden Bosch der Nederlanden, C.M., Hannon, E.E., Snyder, J.S. (April). Development of pitch processing in music and language. Poster, Society for Research in Child Development, Austin, TX.
47. (2016) Vanden Bosch der Nederlanden, C.M., Hannon, E.E., Snyder, J.S. (July). Creatures of context: Recruiting musical or linguistic knowledge for spoken, sung, and ambiguous utterances. Poster, 24th International Conference for Music Perception and Cognition in San Francisco, CA.
48. (2015) Vanden Bosch der Nederlanden, C.M., Snyder, J.S., Hannon, E.E. (August). Category knowledge can affect children's ability to detect changes in common sounds. Talk, Auditory Development: From Cochlea to Cognition Meeting, Seattle, WA.
49. (2015) Vanden Bosch der Nederlanden, C.M., Hannon, E.E., Snyder, J.S. (August). The categorization of speech and song by adults. Talk, Society for Music Perception and Cognition in Nashville, TN.

50. (2015) Vanden Bosch der Nederlanden C.M., Hannon, E.E., & Snyder, J.S. (February). Adult-like auditory object processing in children during change detection. Poster, Mid-Winter Meeting of the Association for Research in Otolaryngology in Baltimore, MD.
51. (2014) Hannon, E.E. & Vanden Bosch der Nederlanden, C.M. (July). Effects of music and language experience on auditory pattern learning during infancy and adulthood. Poster, Biennial International Conference on Infant Studies, Berlin, Germany.
52. (2014) Vanden Bosch der Nederlanden, C.M., Hannon, E.E., & Snyder, J.S. (May). Differences in the detection of pitch changes within a music and speech context. Poster, CHASE Summer School on the Dynamics of Music and Language, Merced, CA.
53. (2014) Irsik, V., Vanden Bosch der Nederlanden, C.M., Gregg, M., & Snyder, J.S. (February). Effects of attention on change deafness depend on the task relevance of the attended object. Talk, Association for Research in Otolaryngology, San Diego, CA.
54. (2013) Vanden Bosch der Nederlanden, C.M., Hannon, E.E., Snyder, J.S. (August). Differences in the detection of pitch changes within a music and speech context. Poster, Society for Music Perception and Cognition, Toronto, ON.
55. (2013) Vanden Bosch der Nederlanden, C.M., Hannon, E.E., Snyder, J.S. (May). The role of music-specific representations when processing speech. Poster, Inaugural Symposium on Music and Language Development at the Centre for Research on Brain, Language, & Music, Montreal, QC.

Mentorship & Research Supervision

Postdoctoral Fellows

2023 - Anna Czepiel

Graduate Students

2024 - Meyha Chhatwal (Co-Supervised, Laura Cirelli)
 2022 - Anne Cabildo (Committee Chair)
 2022 - Anna Liu (Committee Chair)

2023- Jule Hafermann (External PhD project, Honours Program, Radboud University)
 2023 - Emily Shroads (FRP committee member)
 2022 - Angela Dou (FRP committee member)
 2022 - 2024 Lauren Cole, Music and Health Science PhD Student (Dissertation committee member)
 2020 - 2024 Christine Moreau, Western University (External PhD Project)
 2025 – Tara Raessi
 2025 – Ana Luiza Miranda-Guimares
 2025 - Silvia Guidi

Undergraduate Students (*denotes honours thesis supervisor, + denotes volunteer, # denotes USRA/ UTEA funding)

University of Toronto Mississauga (2022 – 2025)

Emily Prete, Grace Otto*, Jessica Luk, Meyha Chhatwal#, Mia Amiel#, Ryan Mark David*#, Selina Sabetti-Franklin, Teia Tremblett, Vashti Kamassah, Akash Gogna+, Leah Rudmik+, Aalia Rangnekar+, Justin Law, Myra Ahteshem, Natasha Saeed, Yimeng Wang (*Mitacs Globalink Exchange*), Richard Chan,

Katie Ngo, Anh Tran, Giuliana Giannini, Saghar Tavakoli#, Maha Khalid, Reem Idris*#, Manya Bhasin, Dylan Vickers, Muskaan Toor, Maira Salman, Natasha Barekman, Alia Louati*, Chloe Syriac, Cassandra Yanga, David Mazur, Ginnie Wee

Western University (2016-2021)

Chu Yi Yu, Prakhar Seth, Sarah Sequiera*, Xin Qi*, Ben Shapiro*, Maya Gantar*, Patrick Grzela, Olivia Jiaming Xu, Vivian Phu, Renee Ragguet, Gurjot Johal, Shaily Brahmbhatt, Nisha Paulose, Ajmal Nasser Safi, Anmol Samra, Ashmita Singh, Cecile Gasser (International Exchange Student)

University of Nevada, Las Vegas (2011-2016)

Angie Rubio-Garcia, Che-Renee Zaragoza, Evan Clarkson, Jordan Nelson, Carmella Gadsen, Melisa Baumgartner, Dung My Do, Faviola Dadis, Jared Leslie, Morgan Baker, Jessica Jensen, Erica Hoffman, Mirna Peleminis, Vanessa LaMorte, Allen Chen

High School / Secondary School Students (2017- 2024)

Layla Roy, Nyack High School Science Research Program (2023 - 2024)
Sarah Parigela, Orange County School of the Arts in Santa Ana, California (2022-23)
Adrianna Klid, High School Co-op Student (2017)

Teaching Experience

University of Toronto Mississauga, Course Instructor

2025	Graduate Seminar: Audition
2023 - present	Psychology of Music (PSY387)
2022- present	Language Development (PSY315/JLP315)

Western University, Guest Lecturer

2020, 2021	Music Development (4 th year)
2018	Auditory and Language Development (3 rd year)
2018	Human Development (2 nd year)
2016	Music Development (3 rd year)

University of Nevada, Las Vegas, Guest Lecturer

2015	Human Memory Lecture (1 st year)
2014	Research Methods Lecture (1 st year)
2014	History of Psychology Lecture (1 st year)
2012	Sensation and Perception (4 th year, Teaching Assistant)
2011	Human Development (4 th year, Teaching Assistant)

Service

2023 – present	Social Committee Chair, Department of Psychology, UTM
2023 – 2024	Member, SMPC Anti-Racism Committee
2022 – 2024	Member At Large, Board of the Society for Music Perception and Cognition
2023	PTR Committee, Department of Psychology, UTM
2023	Reviewer, Canada SROP Applicants, UofT
2023	Domestic OGS Awards Adjudication Committee, UofT
2022	UTM Postdoctoral Fellowship Award
2022	International OGS Awards Adjudication Committee, UofT

2022	Committee Chair, SMPC Lifetime Achievement Award
2020-2021	Trainee Talk Series Organizing Committee, SSHRC Partnership Grant
2015	Panelist, Graduate Student Research Panel, UNLV Research Week
2012 - 2014	Developmental Area & Cohort Representative, Experimental Student Committee

Reviewing

Editorial Board Member: Journal of Experimental Psychology: Human Perception, and Performance
Ad Hoc: Brain Sciences, Languages, Psychological Review, PLOS One, Scientific Reports, Journal of Experimental Psychology: Learning, Memory, and Cognition, European Journal of Neuroscience, Journal of Cognitive Neuroscience, Journal of Experimental Psychology: Human Perception and Performance, Developmental Science, Music & Sciences, Cognitive Science, Attention, Perception, & Psychophysics, PLOS Biology, Nature, Nature Human Behavior, PCI-RR

Outreach

2025	Blog Post and IG Live for Tiptoe Music, tiptoemusic.net
2025	Converging Careers Podcast - Speech Language Pathology Professional Development
2023 - 2024	Faculty Validator, Harmonix UTM's Student-Led Music Campus Organization
2023	UTM STEM High School Fellowship: Research Exploration Opportunity
2022	Undergraduate Research Day Faculty Judge, April
2022	OVPR Academic Dossier Competition Reviewer, April
2019	Public Lecture St. Mary's Catholic School (music, the arts, & the brain)
2017 - 2018	Music coach volunteer for El Sistema Aeolian (free instrument program)
2015, 2016	Judge, Beal Bank USA Southern Nevada Regional Science & Engineering Fair
2012 - 2015	Volunteer Scientist, Brain Awareness Week

Professional Memberships

Collaborative Program in Neuroscience (Faculty Mentor), Society for Music Perception and Cognition, Association for Research in Otolaryngology, Society for Research in Child Development, Society for the Neurobiology of Language, Cognitive Neuroscience Society, Canadian Society for Brain, Behaviour, and Cognitive Science

Professional Development

2023	Graduate Mentorship Community of Practice, UofT
2023	Understanding and Resolving Conflict, CGMS, UofT
2023	Building Success Across the Graduate Life Cycle, CTSI, UofT
2022	Faculty Success Program
2022	Teaching from a Distance: Webinars and Lecture Recordings, UofT
2022	Planning and preparing your Online Course, UofT
2022	Organizing your Course Content, UofT
2022	Connecting and Communicating with Students, UofT, UofT
2022	Assessing Student Work and Providing Feedback, UofT
2018	Multivariate Temporal Response Function Tutorial, Western
2017	Women in STEM workshop and conference, Western
2016	Supporting Women in Academia, Western