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EDUCATION	Ph.D., Psychology, McMaster University	2016
	M.A., Speech and Hearing Science, Ohio State University	2012
	B.Mus., Music Theory, Ohio State University	2010
EXPERIENCE	Postdoctoral Fellow, Sunnybrook Research Institute Evaluative Clinical Sciences Platform	2017-Present
	Postdoctoral Fellow, Université de Montréal School of Speech Therapy and Audiology	2016-2017
GRANTS	<i>As Co-Investigator</i> American Tinnitus Association Research Grant (50k CAD)	2018-2019
	McMaster LIVE Lab Grant (2.6k CAD)	2015-2016
FELLOWSHIPS	McMaster Institute of Aging Research Fellowship (declined; 50k CAD)	2017-2018
	NSERC-CREATE Fellowship, Auditory Cognitive Neuroscience (42k CAD)	2013-2015
	McMaster Graduate Scholarship (12k CAD)	2012, 2016
	The Patrick-McConnell Buckeye Foundation Scholarship (60k USD)	2005-2009
AWARDS	École d'Orthophonie et d'Audiologie Junior Researcher Award	2016
	MRC Institute of Hearing Research Early Career Award	2016
	McMaster International Excellence Award	2015
PEER-REVIEWED PUBLICATIONS	<p><b>Paul, B. T.</b>, Schoenwiesner, M., &amp; Hébert, S. (In Press). Towards an objective test of chronic tinnitus: Properties of auditory cortical potentials evoked by silent gaps in tinnitus-like sounds. <i>Hearing Research</i>.</p> <p><b>Paul, B. T.</b>, Waheed, S., Bruce, I. C., &amp; Roberts, L. E. (2017). Subcortical amplitude modulation encoding deficits suggest evidence of cochlear synaptopathy in normal-hearing 18-19 year olds with higher lifetime noise exposure. <i>Journal of the Acoustical Society of America, Express Letters</i>, 142 (5), November 2017. doi: 10.1121/1.5009603.</p> <p><b>Paul, B. T.</b>, Bruce, I. C., &amp; Roberts, L. E. (2017). Evidence that hidden hearing loss underlies amplitude modulation encoding deficits in individuals with and without tinnitus. <i>Hearing Research</i>, 344, 170-82. doi: 344 10.1016/j.heares.2016.11.010</p> <p>Roberts, L. E., Bosnyak, D. J., Bruce, I. C., Gander, P. E., &amp; <b>Paul, B. T.</b> (2015). Evidence for differential modulation of primary and nonprimary auditory cortex by forward masking in tinnitus. <i>Hearing Research</i>, 327, 9-27. doi: 10.1016/j.heares.2015.04.011</p> <p><b>Paul, B. T.</b>, Sederberg, P. B., &amp; Feth, L. L. (2015). Imagined temporal groupings tune oscillatory neural activity for processing rhythmic sounds. <i>Timing &amp; Time Perception</i>, 3, 172-88. doi:10.1163/22134468-03002042</p> <p><b>Paul, B. T.</b>, Bruce, I. C., Bosnyak, D. J., Thompson, D. C., &amp; Roberts, L. E. (2014). Modulation of electrocortical brain activity by attention in individuals with and without</p>	

tinnitus. *Neural Plasticity*, Vol. 2014, Article ID 127824. doi:10.1155/2014/127824

Broze, Y., **Paul, B. T.**, Allen, E., & Guarna, K. (2014). Polyphonic Voice Multiplicity, Numerosity, and Musical Emotion Perception. *Music Perception*, 32 (2), 143-159.

**Paul, B.**, & Huron, D. (2010). An association between breaking voice and grief-related lyrics in Country Music. *Empirical Musicology Review*, 5 (2), 27-35.

**Paul, B.** (2008). Bilateral Keyboard Symmetry in the Music of Einojuhani Rautavaara. *The Ohio State University Online Music Journal*, 1 (2).

MAGAZINE  
ARTICLES

**Paul, B. T.** & Hébert, S. (Forthcoming August 2018). Using electroencephalography (EEG) to track brain responses to gaps embedded in soft sounds: A stepping stone towards an objective measure of tinnitus. *Tinnitus Today*

INVITED TALKS

**Paul, B. T.** (September 10, 2017). Hidden hearing loss in individuals with tinnitus and normal audiograms. Jos Eggermont Tinnitus Symposium ("JosFest"), 6th International Conference on Auditory Cortex, Banff, Canada.

**Paul, B. T.** (January 18, 2017). Electrophysiology for detecting "hidden" hearing loss: methods, applications, and challenges in research and clinical use. Beaux-Midis Conference Series, University of Montreal, Canada.

**Paul, B. T.**, Bruce, I. C., & Roberts, L. E. (May 24, 2016). Hidden Hearing Loss in Tinnitus Subjects with Normal Hearing Thresholds. Invited Session: "Acoustics Outreach to Budding Scientists: Planting Seeds for Future Clinical and Physiological Collaborations." 171st meeting of the Acoustical Society of America, Salt Lake City, USA.

**Paul, B. T.**, Bruce, I. C., & Roberts, L. E. (February 22, 2016). Cochlear damage related to tinnitus. Invited Session: "Active auditory processing: Basic mechanisms, individual differences and clinical applications (Part II)." Young Investigators Symposium; the 37th Annual MidWinter Meeting for the Association for Research in Otolaryngology, San Diego, USA.

CONFERENCE  
TALKS

**Paul, B. T.**, Chen, J., Lin, V., Le, T., & Dimitrijevic, A. (June 30, 2018). EEG Alpha Activity as a Neural Marker of Listening Effort during speech-in-noise perception in cochlear implant users. 15th International Conference on Cochlear Implants, Antwerp, Belgium.

**Paul, B. T.** & Dimitrijevic, A. (May 23, 2018). Single-Trial EEG Alpha Activity as a Correlate of Listening Effort During Speech-In-Noise Perception in Cochlear Implant Users. Auditory EEG Signal Processing symposium, KU Leuven, Leuven, Belgium.

**Paul, B. T.**, Bruce, I. C., & Roberts, L. E. (November 15, 2016). Evidence for Hidden Hearing Loss in Tinnitus Subjects with Normal Hearing Thresholds. 60e Congr s international en orthophonie et en audiologie, Montreal, Canada

**Paul, B. T.**, Bruce, I. C., & Roberts, L. E. (March 17, 2016). Evidence for Hidden Hearing Loss in Tinnitus Subjects with Normal Hearing Thresholds. 10th annual meeting of the Tinnitus Research Initiative, Nottingham, UK.

**Paul, B. T.**, Roberts, L. E., Bruce, I. C., Bosnyak, D. J., & Thompson, D. C. (June 8, 2015). Cochlear Neuropathy in Tinnitus. 9th annual meeting of the Tinnitus Research Initiative, Ann Arbor, USA.

**Paul, B. T.**, Roberts, L. E., Bruce, I. C., Bosnyak, D. J., & Thompson, D. C. (August 8, 2014) Modulation of auditory evoked potentials by top-down auditory attention is modified in tinnitus. 2014 Annual NSERC-Create Auditory Cognitive Neuroscience Workshop, Montreal, Canada.

**Paul, B. T.**, Sederberg, P. B., & Feth, L. L. (August 09, 2013). Patterns of neural activation and suppression that underlie musical meter. Society for Music Perception and Cognition 2013. Ryerson University, Toronto, Canada.

POSTER  
PRESENTATIONS  
(LAST 4 YEARS;  
FIRST AUTHOR  
ONLY)

**Paul, B. T.**, Chen, J., Lin, V., Le, T., & Dimitrijevic, A. (October 12, 2018). EEG Alpha Activity as a Candidate Neural Marker of Listening Effort During Speech-In-Noise Perception in Cochlear Implant Users. The 10th International Symposium on Objective Measures in Auditory Implants, Tel Aviv, Israel.

**Paul, B. T.**, Bruce, I. C., Tran, N., Waheed, S., & Roberts L. E. (May 7, 2018). Testing for Evidence of Cochlear Synaptopathy in Normal-Hearing Young Adults with Varying Noise Exposure History. 175th meeting of the Acoustical Society of America, Minneapolis, Minnesota, USA.

**Paul, B. T.**, Hébert, S., & Schoenwiesner, M. (February 11, 2018). Towards human validation of gap detection for objective tinnitus measurement: Estimating acoustical properties of tinnitus and recording gap-evoked potentials in tinnitus-like sounds. The 41st Annual MidWinter Meeting for the Association for Research in Otolaryngology, San Diego, CA.

**Paul, B. T.**, Bruce, I. C., Waheed, S., & Roberts L. E. (February 13, 2018). Subcortical Amplitude Modulation Encoding Deficits in Young Adults with Greater Noise Exposure History Suggest Evidence of Cochlear Synaptopathy, The 41st Annual MidWinter Meeting for the Association for Research in Otolaryngology, San Diego, CA.

**Paul, B. T.**, Hébert, S., & Schoenwiesner, M. (March 17, 2017). Towards an objective measure of tinnitus: properties of cortical potentials evoked by weak acoustic events. 25ième Journée Scientifique Centre de Recherche en Neuropsychologie et Cognition. Montreal, QC

**Paul, B. T.**, Bruce, I. C., Waheed, S., & Roberts L. E. (February 11-15, 2017). Inter-subject differences in amplitude modulation encoding correlate with history of noise exposure. The 40th Annual MidWinter Meeting for the Association for Research in Otolaryngology, Baltimore, MD.

**Paul, B. T.**, Roberts, L. E., Bruce, I. C. (October 21-23, 2015). Cochlear factors related to tinnitus. Tenth anniversary symposium of the international laboratory for Brain, Music, and Sound Research (BRAMS), Montreal, QC, Canada

**Paul, B. T.**, Roberts, L. E., Bruce, I. C., Bosnyak, D. J., & Thompson, D. C. (February 22-26, 2015). Top-Down Attention Modulates the Frequency of the 40-Hz Auditory Steady State Response during Gap-Induced Resets. The 38th Annual MidWinter Meeting for the Association for Research in Otolaryngology, Baltimore, MD.

**Paul, B. T.**, Roberts, L. E., Bruce, I. C., Bosnyak, D. J., & Thompson, D. C. (April 25, 2014) Modulation of auditory cortical representations by top-down auditory attention is modified in tinnitus. The Erasmus Mundus Symposium on Auditory Cognitive Neuroscience, Leipzig, Germany.

**Paul, B. T.**, Roberts, L. E., Bruce, I. C., Bosnyak, D. J., & Thompson, D. C. (February 22, 2014). Attention Modulates the Reset of the Auditory Steady State Response. The 37th Annual MidWinter Meeting for the Association for Research in Otolaryngology, San Diego, CA.

WORKSHOP AND  
SEMINAR  
PRESENTATIONS

**Paul, B. T.** (February 24, 2017) Using envelope following responses to find evidence of hidden hearing loss. Centre for Research on Brain, Language and Music Frequency Following Response Workshop, Montreal, Canada.

**Paul, B. T.** (January 26, 2017) Finding hidden hearing loss: research approaches and evidence for cochlear damage in humans with normal hearing. BRAMS 3rd Scientific Social, Montreal, Canada.

**Paul, B. T.** (September 23, 2016). Ringing Ears: hidden hearing loss and the role of attention in tinnitus. Cognition and Perception Seminar, McMaster University, Hamilton, Canada.

PUBLIC  
OUTREACH

**Paul, B. T.**, Shanahan, D., Broze, Y., Horn, K., & Albrecht, J. (June 05, 2012). Music Cognition and Emotion. Columbus Science Pub, The Shrunken Head, Columbus, USA.

SERVICE

Ad-hoc Reviewer

*Scientific Reports*

*Journal of Neurophysiology*

*Brain & Behavior*

*Ear and Hearing*

*European Journal of Neuroscience*

*Neuroscience*

*Frontiers In Neuroscience/Psychology*

MEMBERSHIPS

Association for Research in Otolaryngology, Associate Member

2012-Present

Acoustical Society of America, Student Member

2011-Present