
CONTACT INFORMATION	brandontylerpaul.com brandon.paul@umontreal.ca	
EDUCATION	PhD, Psychology, McMaster University	2016
	MA, Speech and Hearing Science, Ohio State University	2012
	BMus, Music Theory, Ohio State University	2010
WORK EXPERIENCE	Postdoctoral Fellow, Université de Montréal <i>Funded by the American Tinnitus Association</i>	2016-2017
PEER-REVIEWED PUBLICATIONS	<p>Paul, B. T., Bruce, I. C., & 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.</p> <p>Roberts, L. E., Bosnyak, D. J., Bruce, I. C., Gander, P. E., & Paul, B. T. (2015). Evidence for differential modulation of primary and nonprimary auditory cortex by forward masking in tinnitus. <i>Hearing Research</i>, 327, 9-27.</p> <p>Paul, B. T., Sederberg, P. B., & Feth, L. L. (2015). Imagined temporal groupings tune oscillatory neural activity for processing rhythmic sounds. <i>Timing & Time Perception</i>, 3, 172-88. doi:10.1163/22134468-03002042</p> <p>Paul, B. T., Bruce, I. C., Bosnyak, D. J., Thompson, D. C., & Roberts, L. E. (2014). Modulation of electrocortical brain activity by attention in individuals with and without tinnitus. <i>Neural Plasticity</i>, Vol. 2014, Article ID 127824. doi:10.1155/2014/127824</p> <p>Broze, Y., Paul, B. T., Allen, E., & Guarna, K. (2014). Polyphonic Voice Multiplicity, Numerosity, and Musical Emotion Perception. <i>Music Perception</i>, 32 (2), 143-159.</p> <p>Paul, B., & Huron, D. (2010). An association between breaking voice and grief-related lyrics in Country Music. <i>Empirical Musicology Review</i>, 5 (2), 27-35.</p> <p>Paul, B. (2008). Bilateral Keyboard Symmetry in the Music of Einojuhani Rautavaara. <i>The Ohio State University Online Music Journal</i>, 1 (2).</p>	
GRANTS	2015-2016	McMaster LIVE Lab Grant (co-author; PI Fiona Manning) (2600 CAD)
FELLOWSHIPS AND SCHOLARSHIPS	2015-2016	McMaster International Excellence Award (5000 CAD)
	2013-2015	NSERC-CREATE Fellowship in Auditory Cognitive Neuroscience (42000 CAD)
AWARDS AND HONOURS	2017	Association for Research in Otolaryngology Postdoc Travel Award (500 USD)
	2016	Congr�s EOA Junior Researcher Award (500 CAD)
	2016	Acoustical Society of America Travel Award (750 USD)
	2016	MRC Institute of Hearing Research Early Career Award (500 GBP)
	2016	Association for Research in Otolaryngology Student Travel Award (500 USD)
	2015	McMaster University Graduate Student Association Travel Award (500 CAD)
	2015	Tinnitus Research Initiative Student Travel Award (500 USD)
	2014	Erasmus Mundus Auditory Cognitive Neuroscience Travel Award (800 EUR)

CONFERENCE
PROCEEDINGS

Broze, Y., & **Paul, B.** (2012). Voice Multiplicity Influences the Perception of Musical Emotions. Proceedings of the 12th International Conference on Music Perception and Cognition, Thessaloniki, Greece.

Paul, B. (2010). Nostalgia-inducing music and perceived social support satisfaction. *Demorest, S. ed.* Proceedings of the 11th International Conference on Music Perception and Cognition, 790-793, Seattle, WA.

INVITED TALKS

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

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

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, CA.

CONFERENCE
TALKS

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'és international en orthophonie et en audiologie, Montréal, QC 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, MI.

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, QC, 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, ON, Canada.

POSTER
PRESENTATIONS
(LAST 4 YEARS;
FIRST AUTHOR
ONLY)

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., Bruce, I. C., Bosnyak, D. J., Thompson, D. C. & Roberts, L. E. (March 16, 2014). Electrophysiological Effects of Attention in Normal Hearing and in Tinnitus. 8th International TRI Conference on Tinnitus, Auckland, New Zealand.

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.

SERVICE

Ad-hoc Reviewer
Ear and Hearing
Brain & Behavior
Frontiers in Neuroscience

MEMBERSHIPS

Association for Research in Otolaryngology, Associate Member (2012-Present)
Acoustical Society of America, Student Member (2011-Present)

TECHNICAL SKILLS

Programming, Statistics, Data, and Modeling
Proficient in MATLAB, competent in Python, and introductory experience in R
Proficient in frequentist and competent in Bayesian statistical analysis
Competent in machine learning techniques for pattern classification (e.g., SVM) and feature selection (e.g., mRMR)
Proficient in psychophysical measurement including signal detection theory
Proficient in digital signal processing pertaining to EEG signals
Experience with computational models of the auditory system
Competent with Tucker Davis Technology systems and associated software

Physiological Measurement

EEG: evoked potentials, oscillatory activity, ABRs, ASSRs, EFRs, FFRs
Hearing assessment: Audiometry, Otoscopy