Canadian Audiologist
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CAA News

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The Canadian Academy of Audiology

Canadian Academy of Audiology Conference 2022

Editor's Note:

The CAA Conference 2022 was held in Niagara Falls, Ontario, from Wednesday October 12 – Saturday October 15. It was very well attended with over 500 registrations, industry sponsors and industry exhibitors. I have been to hundreds of audiology conferences over the years both in Canada and internationally, and I think that this one was head and shoulders above the rest. All of the conference speakers were engaging and presented cutting edge, clinically relevant research and case studies. The speakers offered leading edge science, technical and human behaviour foundations and established a link to how it can be applied to clinical practice. As I said in my Editorial, I think we are at a point where audiology can now be thought of as a mature field. No longer are there talks about X or Y, and only those people who study or perform clinical services for X or Y attended, but now each topic touches on relevant aspects of our clinical practices. I may not perform evoked response audiometry in my clinical setting, but I am constantly amazed by how recent findings from this field inform how I interact and inform my clients. We will let the pictures from the CAA Conference 2022 do the talking.


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CAA
Ryan
McCreery



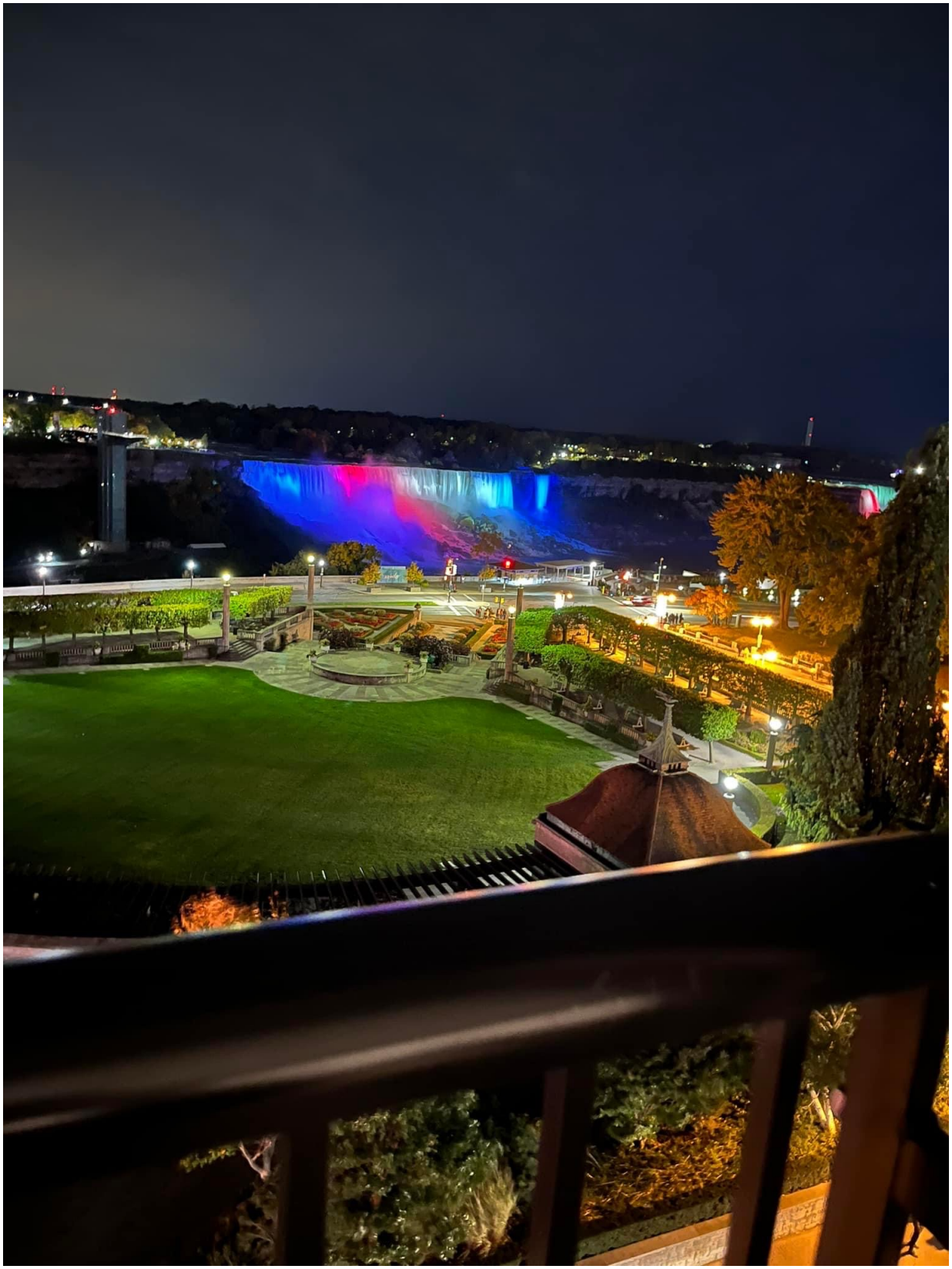













Comparative analysis of prosody perception in hearing-impaired individuals and users of hearing assistive devices
CAA I ACA
Maryam Karimi-Boroujeni [1*], Hilmi R. Dajani [2], Christian Giguère [1]
Background
Prosody perception is an essential component of speech communication and social interaction through which both linguistic and emotional information are conveyed
Sarcasm
Turn-taking
Lexical stress
Syntactic chunking
Phrasal prominence
Declarative vs. interrogative sentence
Emotional states
Affective Prosody
Objectives
1. To understand the effects of hearing impairment on prosody perception
2. To assess the performance of hearing assistive devices, including hearing aid (HA), cochlear implant (CI), and bimodal hearing in restoring prosodic perception
Method
Identification
Screening
Included
Results
1 The effect of hearing loss on prosody perception depends on three interacting factors:
✓ Hearing loss severity
Restricted access to the tempo-spectral acoustic cues carrying speech prosody in hearing loss ranging from mild to profound
✓ Age at the onset of hearing impairment
• In children, impaired prosody perception is linked to more outcomes, like difficulties in language development, reading acquisition, and social development.
• In the elderly, the age-related central nervous system reorganization and cognitive decline can increase the chance of prosody perception deficit.
✓ Impact of auditory training
Remarkable improvement in the prosodic abilities of people with hearing impairment after receiving auditory training
2 The effect of hearing loss on prosody perception depends on three interacting factors:
Hearing aid
Cochlear implant
Bimodal Fitting
Discussion
Conclusion
References
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What you need to know about reversible cooling deactivation
• Tissue temps <20°C eliminate synaptic transmission
• Disrupts calcium uptake at the axon terminal
• Doesn't impair axonal transmission
• Highly localized
• Deactivation can be induced or reversed in minutes
• Each animal serves as its own control
• Multiple cortical sites can be examined in each animal


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Sheraton on the Falls
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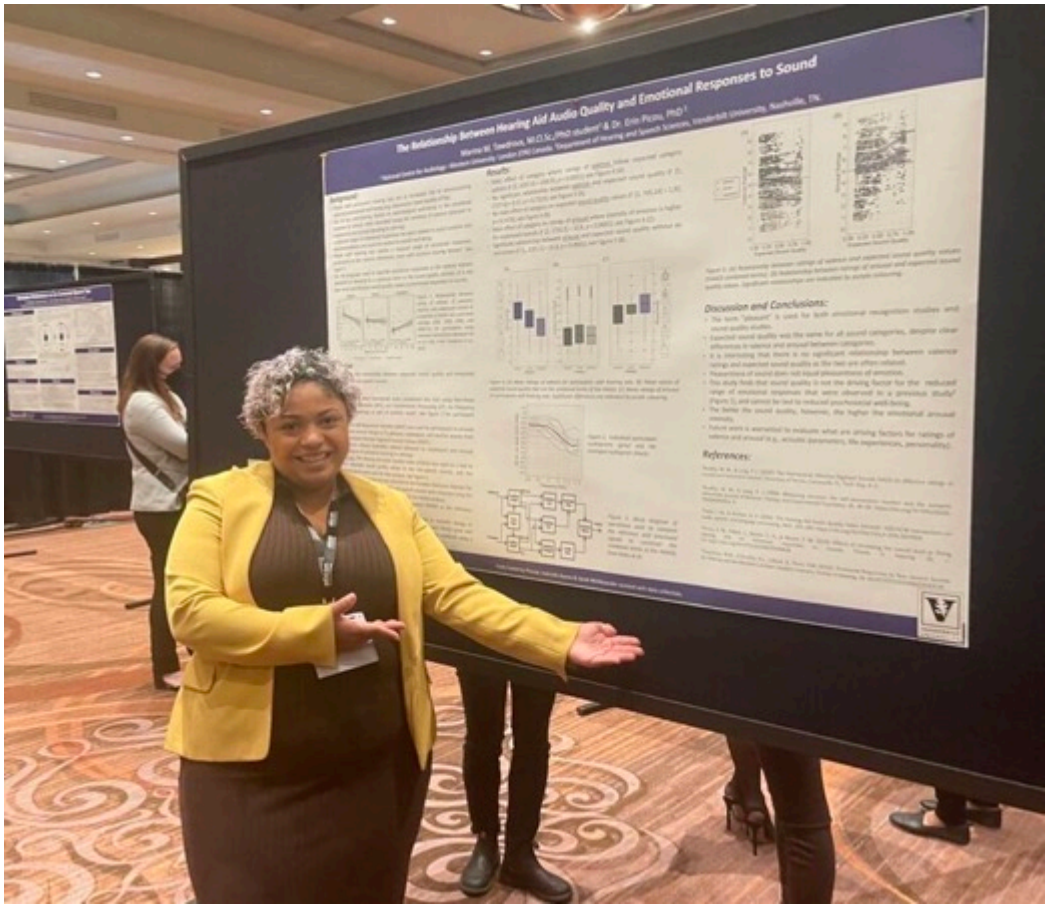

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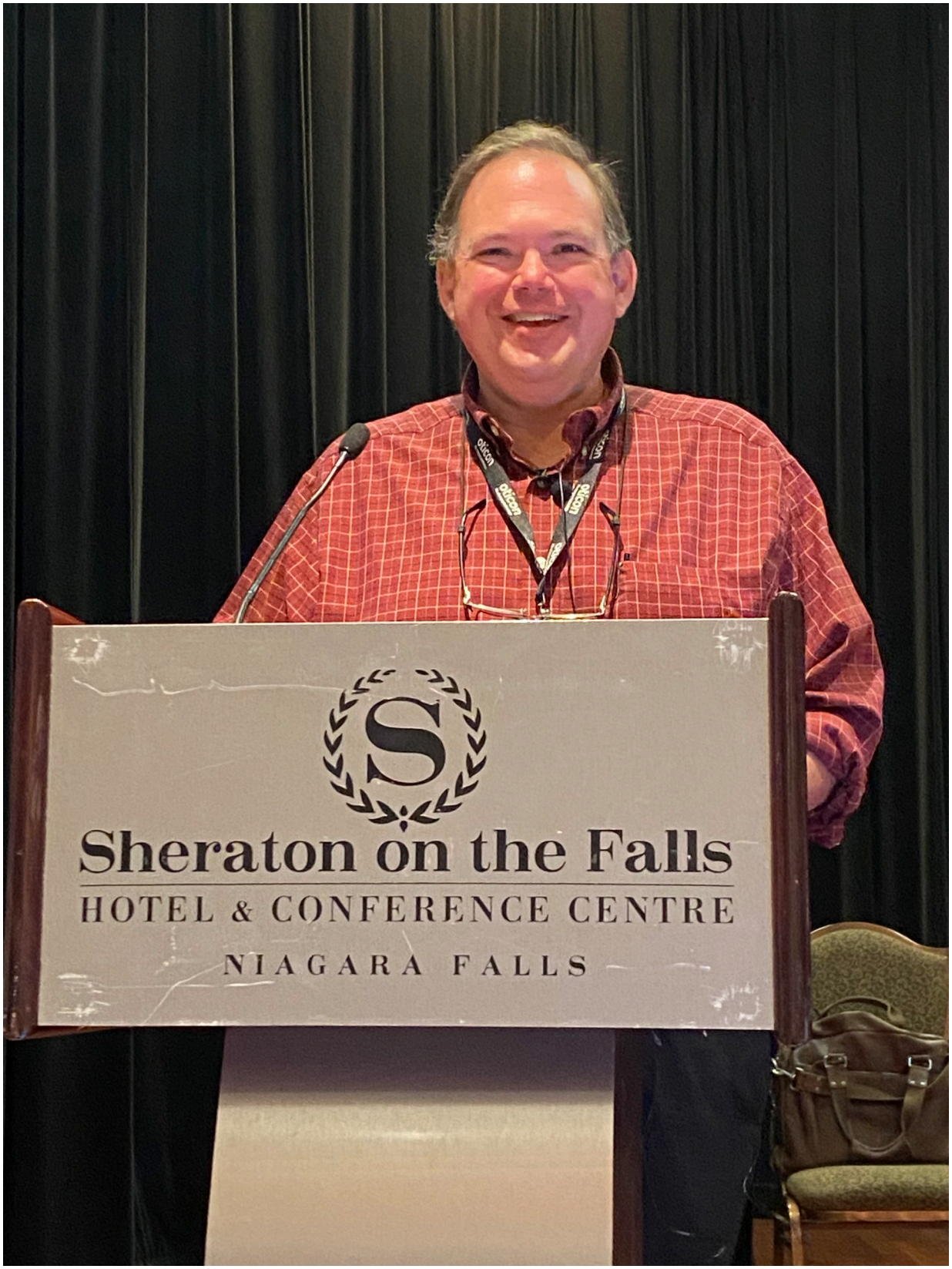



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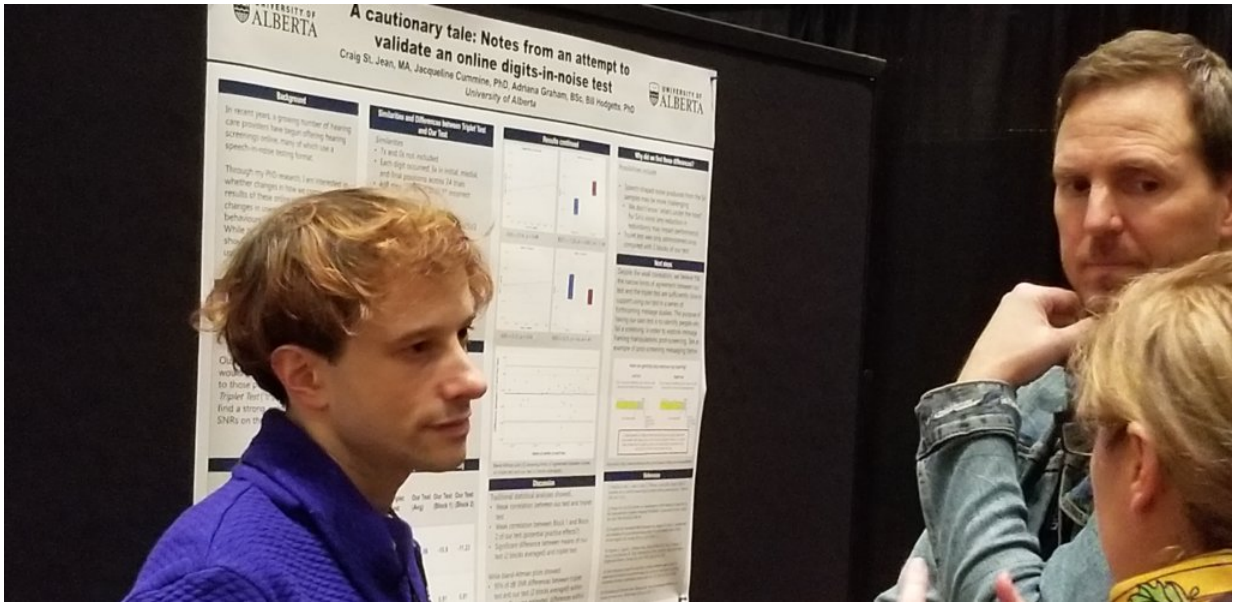

The Relationship Between Hearing Aid Audio Quality and Emotional Responses to Sound
Discussion and Conclusions:
References:




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Reflective Language




UNIVERSITY OF ALBERTA
A cautionary tale: Notes from an attempt to validate an online digits-in-noise test
Craig St. Jean, MA, Jacqueline Cummine, PhD, Adriana Graham, BSc, Bill Hodgetts, PhD
University of Alberta
Background
Similarities and Differences between Triplet Test and Our Test
Results confirmed
Why did we find these differences?
Discussion
Methods