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## **Professor William Hodgetts**

Correspondence language: English

Sex: Male

Date of Birth: 5/10

Canadian Residency Status: Canadian Citizen

Country of Citizenship: Canada

## **Contact Information**

The primary information is denoted by (\*)

### **Address**

#### Primary Affiliation (\*)

Department of Communication Sciences and  
Disorders  
6-133 Clinical Science Building  
University of Alberta  
Edmonton Alberta T6G 2G4  
Canada

#### Primary Affiliation (\*)

Bone Conduction Amplification Laboratory  
Institute for Reconstructive Sciences in Medicine  
16940-87 Ave  
Edmonton Alberta T5R 4H5  
Canada

### **Telephone**

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Protected when completed

## Professor William Hodgetts

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### Language Skills

Language	Read	Write	Speak	Understand	Peer Review
English	Yes	Yes	Yes	Yes	Yes

### Degrees

- 2002/9 - 2008/4      Doctorate, Rehabilitation Science, Audiology, University of Alberta  
Degree Status: Completed  
Thesis Title: Contributions to a Better Understanding of Fitting Procedures for Baha  
Areas of Research: Health Care Technologies  
Research Disciplines: Speech-Language Pathology and Audiology  
Supervisors: Paul Hagler and Gary Faulkner  
Fields of Application: Biomedical Aspects of Human Health
- 1998/9 - 2001/8      Master's Thesis, Communication Sciences and Disorders, Audiology, University of Western Ontario  
Degree Status: Completed  
Thesis Title: Assessing the Use of Temporal Cues by Listeners with Sensorineural Hearing Loss Through Modulation Spectrum Phase Distortion  
Areas of Research: Health Care Technologies  
Research Disciplines: Speech-Language Pathology and Audiology  
Supervisors: Don Jamieson  
Fields of Application: Biomedical Aspects of Human Health
- 1994/9 - 1997/4      Bachelor's Honours, Psychology, University of Western Ontario  
Degree Status: Completed  
Thesis Title: Assessing the Relationship between Teaching and Research Productivity  
Areas of Research: Teaching  
Research Disciplines: Psychology  
Supervisors: Michael Atkinson  
Fields of Application: Education

## Credentials

2012/9 Associate Professor, University of Alberta  
 Fields of Application: Biomedical Aspects of Human Health, Communication and Information Technologies, Public Health  
 Areas of Research: Acoustics, Auditory System, Hearing Disorders, Noise and Vibration, Recognition of Speech  
 Research Disciplines: Speech-Language Pathology and Audiology

## Recognitions

2019/1 - 2019/12 Editors Choice Nominee - Ear and Hearing (Canadian dollar)  
 Honor  
 Dear Dr. Hodgetts, I am writing on behalf of the Editorial Board of Ear and Hearing to let you know that your article (Hodgetts, William; Scott, Dylan; Maas, Patrick; Westover, Lindsey (2018) Development of a Novel Bone Conduction Verification Tool Using a Surface Microphone: Validation With Percutaneous Bone Conduction Users, Ear and Hearing. 39(6):1157-1164) was nominated for the 2018 Editors' Award. This year there were four nominations selected from the 111 articles published in 2018. Each year the Editorial Board members select one Ear and Hearing article to be recognized for its outstanding contribution to the literature on hearing and balance. While in the end your article was not selected for the award, we all wanted you and your co-authors to know what an outstanding contribution we felt your article was to our journal and to the field in general.

2018/4 Faculty of Rehabilitation Medicine Early Career Award - 3,000 (Canadian dollar)  
 University of Alberta  
 Prize / Award  
 Selected by the faculty of rehabilitation medicine as the representative forwarded for the full university competition.

2017/10 President's Award (Canadian dollar)  
 Canadian Academy of Audiology  
 Honor  
 Given in recognition of an outstanding contribution to the development of the academy.

2017/9 Vanguard Award - Celebrating Success in Innovation (Canadian dollar)  
 World Discoveries  
 Honor  
 This was an award for officially licensing the DSL-Bone Conduction Prescription. Sponsored by Tech Alliance.

2014/1 - 2015/5 Host of the International congress on bone conduction hearing and related technologies - 137,000 (Canadian dollar)  
 Osseo  
 Honor  
 International Meeting Host

2007/1 - 2008/1 Faculty Teaching Award - 0  
 University of Alberta, Faculty of Rehabilitation Medicine  
 Distinction  
 Hearing Science/Audiology

2000/1 - 2000/1	AG Bell Prize in Speech Communication - 500 Canadian Acoustical Association Distinction Speech Perception
2000/1 - 2001/1	Highest Clinical Average - 0 Harmonize for Speech Distinction Audiology

## User Profile

Researcher Status: Researcher  
Research Career Start Date: 2008/07/01  
Engaged in Clinical Research?: Yes

Key Theory / Methodology: Only 1 in 5 people who need a hearing aid(s) actually wears one. Understanding why this discrepancy exists involves looking at the technology and psychology around hearing aids and services. I have two key research themes: 1) How do we improve upon the prescription, fitting and verification procedures for bone conduction hearing aids? and 2) How do we improve uptake and adherence to hearing services?

Research Interests: Broadly, what are the technical and audiological factors that need to be considered to maximize the audibility of the most important components of speech on an individual basis and how do we best match those technical achievements onto a complex human being who may have any number of psychological factors (e.g., expectations, biases, varying self-efficacy) that need to be understood on an individual basis in order to maximize the likelihood of them being successful if/when they do seek hearing services.

Research Experience Summary: Our prescription and verification approaches are now commercially available for clinicians in the field to use as a fitting tools. This newer line of research focuses more on the human factors that need to be better understood in order to try to improve uptake and adherence to hearing services for individuals who need help.

Fields of Application: Biomedical Aspects of Human Health, Public Health

Disciplines Trained In: Speech-Language Pathology and Audiology, Psychology

Areas of Research: Acoustics, Auditory System, Noise and Vibration, Vibrations

Research Specialization Keywords: Amplification, BAHA, Bone Conduction, Fitting Procedures, Hearing Aids, Hearing Loss, Prescriptive Methods, Speech Perception, Verification, Vibrations

Research Disciplines: Speech-Language Pathology and Audiology, Biomedical Engineering and Biochemical Engineering

## Employment

2013/7	Associate Professor Communication Sciences and Disorders, University of Alberta Full-time, Associate Professor Tenure Status: Tenure
2012/7	Division of Otolaryngology - University of Alberta Division of Otolaryngology Part-time, Adjunct, Associate Professor Tenure Status: Tenure

2002/9	Program Director - Audiology Research and Clinical Fellow Audiology, Institute for Reconstructive Sciences in Medicine (iRSM) Part-time This position is part of a joint appointment I share between the University of Alberta (Faculty of Rehabilitation Medicine) and the Institute for Reconstructive Sciences in Medicine. I direct the Audiology program that involves 1 Audiologist, 3 otolaryngologists, 2 plastic surgeons and about 15 additional clinical and clerical staff. I also spend 1 full day/week in the clinic keeping my skills sharp and learning what are the most clinically-relevant research questions. This allows for faster, more effective translational research.
2008/9 - 2013/7	Assistant Professor Speech Pathology and Audiology, University of Alberta Full-time, Assistant Professor Tenure Status: Non Tenure Track
2001/9 - 2002/8	Clinical Audiologist Communication Sciences and Disorders, University of Western Ontario Tenure Status: Non Tenure Track
2001/9 - 2002/8	Research Associate Canadian Language and Literacy Research Network, University of Western Ontario
1999/9 - 2001/8	Research Assistant Communication Sciences and Disorders, University of Western Ontario

## Research Funding History

### Awarded [n=6]

2017/6 - 2021/7 Principal Applicant	Operating funding for Bone Conduction Research - Oticon Foundation, Grant, Operating Clinical Research Project?: No  <b>Funding Sources:</b> 2018/6                      Oticon Foundation Total Funding - 50,000 Portion of Funding Received - 50,000 (Canadian dollar) Funding Competitive?: No
2017/4 - 2020/4 Principal Applicant	Influence of Messaging on Uptake and Adherence to Hearing Services, Grant, Operating Clinical Research Project?: No Project Description: We are studying the influence of messaging on uptake and adherence to hearing services. This will have broad impact on the ways in which we talk about messaging for individuals who have hearing challenges but have not yet sought or maintained hearing care services.  <b>Funding Sources:</b> 2017/4 - 2018/4              Sonova Foundation Total Funding - 20,000 (Canadian dollar) Portion of Funding Received - 20,000 (Canadian dollar) Funding Renewable?: Yes Funding Competitive?: No
2016/2 - 2020/3 Principal Investigator	Osseo Fund - iRSM, Grant, Operating Clinical Research Project?: No  <b>Funding by Year:</b> 2016/2 - 2018/12              Total Funding - 43,000 (Canadian dollar) Portion of Funding Received - 35,800 (Canadian dollar)

**Funding Sources:**

2015/1 - 2015/12 Osseo Fund  
 Total Funding - 42,000 (Canadian dollar)  
 Portion of Funding Received - 42,000 (Canadian dollar)  
 Funding Competitive?: No

2014/1 - 2019/12  
 Collaborator

AURONET - Aural Rehabilitation Outcomes Network, Grant, Workshop  
 Clinical Research Project?: No  
 Project Description: AURONET is an international group dedicated to improving the outcomes of patients with hearing loss through the development of a core set of patient-centred outcome measures that can be used in individual practices and serve as a standard of reporting in clinical trials.

**Funding Sources:**

Oticon Foundation  
 Total Funding - 75,000 (United States dollar)  
 Portion of Funding Received - 10,000 (Canadian dollar)  
 Funding Competitive?: No

2014/3 - 2019/3  
 Collaborator

Portable Swallowing Therapy Unit: Using Innovative Technology to Provide Accessible Care for Head and Neck Cancer Patients with Chronic Swallowing Difficulties, Grant, Operating  
 Clinical Research Project?: Yes

**Funding Sources:**

2014/3 - 2019/3 Alberta Cancer Foundation  
 Total Funding - 1,923,362 (Canadian dollar)  
 Portion of Funding Received - 1,923,362 (Canadian dollar)  
 Funding Competitive?: Yes

2014/6 - 2018/7  
 Principal Applicant

Prescription and Verification of Active Bone Conduction Implants (A-BCI), Grant, Operating  
 Clinical Research Project?: Yes  
 Project Description: The grant is about solving verification for bone conduction implants that are underneath the skin.  
 Research Uptake: This research has resulted in a new verification tool that is at prototype testing with Interacoustics, a hearing aid analyzer company.

**Funding by Year:**

2014/6 - 2017/12 Total Funding - 410,000 (Canadian dollar) (Canadian dollar)

**Funding Sources:**

2013/10 - 2017/8 Oticon Foundation  
 Total Funding - 410,000 (Canadian dollar)  
 Portion of Funding Received - 410,000 (Canadian dollar)  
 Funding Competitive?: Yes

**Completed [n=12]**

2013/12 - 2015/1  
 Co-applicant

Portable Swallowing Therapy Unit: Interfacing Technology and Rehabilitation Medicine to Provide Accessible Care for Patients with Chronic Swallowing Difficulties, Grant, Operating  
 Clinical Research Project?: Yes  
 Research Settings: Canada (Both)  
 Research Uptake Stakeholders: Patients

**Funding by Year:**

2013/12 - 2015/1 Total Funding - 50,300 (Canadian dollar)

**Funding Sources:**

2013/12 - 2015/1 Natural Sciences and Engineering Research Council of Canada (NSERC)  
hSITE  
Total Funding - 50,300 (Canadian dollar)  
Portion of Funding Received - 50,300 (Canadian dollar)  
Funding Competitive?: Yes

Principal Applicant : Rieger, Jana

2012/10 - 2013/9  
Co-investigator

Manufacturer recommended targets versus Desired Sensation Level (DSL) prescription fittings for individuals with single-sided deafness (SSD) and bone-anchored hearing devices, Grant, Operating

**Funding Sources:**

Canadian Association of SLP and Audiology  
CASLPA Clinical Research Grant  
Total Funding - 2,500  
Portion of Funding Received - 2,500 (Canadian dollar)  
Funding Competitive?: Yes

2010/7 - 2013/4  
Principal Investigator

Bone Anchored Hearing Aid (BAHA) Prescription and Verification System (BAHA PVS), Grant, Operating  
Clinical Research Project?: No

**Funding Sources:**

2010/7 - 2012/9 Western Economic Diversification Canada  
WEPA Economic Partnership Agreement  
Total Funding - 402,000 (Canadian dollar)  
Portion of Funding Received - 402,000 (Canadian dollar)  
Funding Competitive?: Yes

Co-investigator : Dylan Scott; Herman Lundgren

2011/2 - 2012/2  
Co-investigator

Skin Response Around Percutaneous Implants, Grant, Operating  
Clinical Research Project?: Yes

**Funding Sources:**

2011/2 - 2012/2 Caritas Health Group (Alberta)  
Covenant Health Research Competition  
Total Funding - 5,000 (Canadian dollar)  
Portion of Funding Received - 5,000 (Canadian dollar)  
Funding Competitive?: Yes

Principal Investigator : Osswald, Martin

2010/9 - 2011/9  
Co-applicant

The relevance of hearing loss as a contributor to excess disability in long-term care residents with dementia: Implications for care practice, Grant, Operating

**Funding Sources:**

2010/9 - 2011/9 Canadian Institutes of Health Research (CIHR)  
Catalyst Pilot Project in Aging  
Total Funding - 45,312 (Canadian dollar)  
Funding Competitive?: Yes

Principal Investigator : Hopper, Tammy

2010/8 - 2011/8  
Co-investigator

Can uHear me Now, Grant, Operating

**Funding Sources:**

2010/8 - 2011/8      Caritas Health Group (Alberta)  
Covenant Health Research Competition  
Total Funding - 4,500 (Canadian dollar)  
Funding Competitive?: Yes

Principal Investigator : Ho, Allan

2010/5 - 2011/5  
Co-investigator

Automatic Audiometry vs. Manual Audiometry, Grant, Operating

Project Description: Awarded the Poliquin Resident Award for best clinical research project at the 2011 Canadian Society of Otolaryngology - Head & Neck Surgery Annual Meeting.

**Funding Sources:**

2010/5 - 2011/5      Caritas Health Group (Alberta)  
Covenant Health Research Competition  
Total Funding - 4,724 (Canadian dollar)  
Funding Competitive?: Yes

Principal Investigator : Ho, Allan

2010/5 - 2011/5  
Co-investigator

Application of the DSL v. 5.0a DLL to Bone Anchored Hearing Aid Prescription, Grant, Operating

**Funding Sources:**

2010/5 - 2011/5      University of Western Ontario  
Western Innovation Fund  
Total Funding - 12,000 (Canadian dollar)  
Funding Competitive?: Yes

Principal Investigator : Scollie, Susan

2010/4 - 2011/4  
Principal Investigator

Comparison of Two Prescriptive Approaches to Fitting Baha, Grant, Operating

**Funding Sources:**

2010/4 - 2011/4      University of Alberta  
Faculty of Rehabilitation Medicine - Research Competition  
Total Funding - 9,558 (Canadian dollar)  
Funding Competitive?: Yes

:

2008/9 - 2009/9  
Principal Applicant

Linear vs. Wide Dynamic Range Compression in Bone Anchored Hearing Aids, Grant, Operating

**Funding Sources:**

2008/9 - 2009/9      Caritas Hospital  
Caritas Hospital Research Grant  
Total Funding - 3,200 (Canadian dollar)  
Funding Competitive?: Yes

2008/9 - 2009/9  
Principal Investigator

Prescription of Bone Conduction Amplification, Grant, Operating  
Clinical Research Project?: Yes



**Funding Sources:**

2008/9 - 2009/9 International Society of Maxillofacial Rehabilitation  
 Cochlear Corporation Research Grant Award  
 Total Funding - 3,000 (Canadian dollar)  
 Portion of Funding Received - 3,000 (Canadian dollar)  
 Funding Competitive?: Yes

2008/5 - 2009/5 What is the Influence of Microphone Location on the Performance of BAHA Users?, Grant,  
 Principal Investigator Operating

**Funding Sources:**

2008/5 - 2009/5 Caritas Health Group (Alberta)  
 Covenant Health Research Competition  
 Total Funding - 4,000 (Canadian dollar)  
 Funding Competitive?: Yes

:

**Declined [n=18]**

Co-applicant Survey to Investigate Barriers, Motivations and Experiences Completing Doctoral Studies,  
 Grant, Operating  
 Clinical Research Project?: No

2008/5 Modelling Bone Conduction Vibrations in the Human Skull, Grant, Operating  
 Principal Applicant Clinical Research Project?: No  
 Project Description: The placement and amplification characteristics of bone conduction hearing aids are to be improved through a more thorough understanding of the transmission in human skulls. Through the use of numerical and experimental models, an increased understanding of the transmission of vibration from the input transducer through the skull to the inner ear needs to be studied.

**Funding Sources:**

Natural Sciences and Engineering Research Council of Canada  
 (NSERC)  
 Collaborative Health Research Project  
 Total Funding - 446,000 (Canadian dollar)

2018/4 Experiences of Cognitive and Physical Fatigue in Inclusive Classrooms for Students with  
 Co-investigator Exceptionalities, Grant, Operating

**Funding Sources:**

Social Sciences and Humanities Research Council of Canada  
 (SSHRC)  
 Postdoctoral Fellowship (Canadian dollar)

2012/7 Improving Delivery of Bone Conduction Amplification, Grant, Operating  
 Principal Applicant Clinical Research Project?: Yes  
 Project Description: Advances in technology, awareness, and expanded indications have lead to steadily increasing numbers of individuals with hearing loss that are benefitting from bone conduction amplification. However, clinicians in the field lack knowledge about how to properly prescribe the output of devices and how to properly verify the performance of these devices on an individual basis. There is too much guesswork and not enough scientific validation in the clinical delivery of bone conduction amplification. Two fundamental issues need to be resolved: 1) how do we prescribe bone conduction device output, and 2) how do we verify the performance of bone conduction devices

**Funding Sources:**

Alberta Innovates- Health Solutions  
 Collaborative Research and Innovation Opportunities  
 Total Funding - 1,946,300 (Canadian dollar)

2018/1  
 Principal Applicant  
 Are Directional Microphones Beneficial In a Complex Audio-Visual Environment., Grant, Operating  
 Clinical Research Project?: Yes  
 Project Description: To determine the impact of direction microphones on working memory in a complex audio/visual driving simulation.  
 Research Uptake: Hearing Industry Research Consortium Request for: \$198000

2018/7  
 Co-applicant  
 An exploration of the perceptions and experiences of fatigue for students who are deaf/hard of hearing and those with reading disability., Grant, Operating  
 Clinical Research Project?: No  
 Project Description: Objectives. We aim to explore the perceptions and experiences of resource depletion and subsequent fatigue for students with invisible disabilities, namely, individuals who are deaf/hard of hearing (D/HH) and individuals with reading disabilities (RD). Using a mixed methods design, we will address the extent to which students with invisible disabilities perceive fatigue as impacting their academic success. Specifically, a. What are these students' perceptions and experiences of fatigue in inclusive classrooms? b. To what extent are reported levels of fatigue related to cognitive resource performance (i.e., working memory, executive functioning and language-based tasks)?

**Funding Sources:**

Social Sciences and Humanities Research Council of Canada (SSHRC)  
 Insight Grants  
 Total Funding - 187,283 (Canadian dollar)  
 Funding Reference Number: 951342

2011/3  
 Collaborator  
 Shaping the Future for Health Research and Innovation, Grant, Operating

**Funding Sources:**

Alberta Innovates  
 Total Funding - 1,350,000 (Canadian dollar)

2006/8  
 Principal Applicant  
 The Effects of Ambient Noise and Exercise on Exposure Levels from a Personal MP3 Player, Grant, Operating  
 Clinical Research Project?: No

**Funding Sources:**

Hearing Foundation of Canada (The)  
 Total Funding - 23,000 (Canadian dollar)

2017/4  
 Principal Applicant  
 Improvements in Understanding Bone Conduction Hearing: Technical and Psychological Aspects, Grant, Operating  
 Clinical Research Project?: Yes  
 Project Description: This work aims to improve the understanding of BC hearing from both a technical and psychological perspective. This research will involve (1) the development of a Master Bone Conduction Hearing Aid that will allow complete control of individual parameters of BC sound processors and (2) a series of clinical studies aimed at understanding the role of specific technical parameters and psychological factors on outcomes for BC patients. The proposed research will be possible through a multidisciplinary collaboration bringing together expertise from engineering, audiology, psychology, and clinical education to an important, clinically relevant problem.  
 Research Uptake: Change the way manufacturers deliver devices in their software

- 2017/11  
Principal Applicant
- Are Directional Microphones Beneficial In a Complex Audio-Visual Environment, Grant, Operating  
Clinical Research Project?: No  
Research Uptake: Faculty of Rehabilitation Medicine - Mid Career Stimulus Grant.  
Request for: \$10,000
- 2008/1  
Collaborator
- Alberta Ingenuity Centre for Implantable Nanomedical Devices (iCIND), Grant, Operating  
Clinical Research Project?: No  
Project Description: To establish Alberta as the world leader in implantable nanomedical device research and development, and as a leading centre of innovation and commercial enterprise in regenerative nanomedicine.
- Funding Sources:**
- Alberta Ingenuity Fund (Alberta Heritage Foundation for Science and Engineering Research)  
Total Funding - 13,500,000 (Canadian dollar) (Canadian dollar)
- 2009/9  
Principal Applicant
- Evaluation and Validation of Prescriptive Procedures for Bone Anchored Hearing Aids, Grant, Operating  
Clinical Research Project?: Yes
- Funding Sources:**
- Alberta Innovates- Health Solutions  
Independent Investigator Award  
Total Funding - 269,957 (Canadian dollar) (Canadian dollar)  
Funding Reference Number: 200909
- 2017/9  
Principal Applicant
- Improvement in Understand Bone Conduction Hearing: Technical and Psychological Aspects., Grant, Operating  
Clinical Research Project?: Yes  
Project Description: This work aims to improve the understanding of BC hearing from both a technical and psychological perspective. This research will involve (1) the development of a Master Bone Conduction Hearing Aid that will allow complete control of individual parameters of BC sound processors and (2) a series of clinical studies aimed at understanding the role of specific technical parameters and psychological factors on outcomes for BC patients. The proposed research will be possible through a multidisciplinary collaboration bringing together expertise from engineering, audiology, psychology, and clinical education to an important, clinically relevant problem.
- 2011/7  
Co-applicant
- Re-evaluating Bone Conduction Thresholds in Infants, Grant, Operating  
Clinical Research Project?: Yes
- 2011/9  
Principal Applicant
- Using a Mobile Device for Point of Care Diagnostics and Amplification in Developing Countries., Grant, Operating  
Clinical Research Project?: No  
Project Description: Hearing loss and deafness affect at least 278 million people worldwide, 80% of whom live in developing countries (WHO, 2010). In this grant I proposed using a smart phone or portable media device (e.g., iPod touch) to test hearing (point of care diagnostics) and then use the same device to provide amplification to the user.
- Funding Sources:**
- Grand Challenges Canada  
Total Funding - 100,000 (Canadian dollar)
- 2017/8  
Co-investigator
- Movement Continuum Laboratory (MCL), Grant, Equipment  
Clinical Research Project?: No  
Project Description: The MCL represents a one-of-a-kind infrastructure serving as the foundation for this transformation using research-based approaches supported by state-

of-the-art hearable, wearable, and ambient sensor technologies. The team is comprised of scientists and clinical researchers from diverse faculties including Rehabilitation Medicine; Arts; Science; Agricultural, Life, and Environmental Sciences; Medicine and Dentistry; Pharmacology; Physical Education and Recreation; and Engineering.

**Funding Sources:**

Canada Foundation for Innovation (CFI)  
 Total Funding - 3,717,505 (Canadian dollar) (Canadian dollar)  
 Funding Competitive?: Yes  
 Funding Reference Number: 36063

2018/2  
 Collaborator

Hearing loss and cognitive effort during listening tasks in dementia, Grant, Operating  
 Clinical Research Project?: Yes

**Funding Sources:**

Alzheimer's Association (The)  
 Total Funding - 130,955 (Canadian dollar)

2017/4  
 Co-investigator

Developpement et'évaluation d'un nouveau programme d'intervention audiologique visant  
 `a améliorer l'adoption et l'utilisation des prothèses auditives chez des adultes présentant  
 une surdité, Grant, Operating  
 Clinical Research Project?: Yes

Project Description: Research Objective1) To develop a pre-HA fitting rehabilitation  
 program for hearing-impaired adults who want to get HA for the firsttime. We want to  
 assess and improve their self-efficacy and readiness and to accept amplification and  
 adjusttheir expectations to be realistic before they consider this treatment; 2) To compare  
 the effectiveness of this new rehabilitation program with the standard clinical intervention  
 toimprove the benefit and satisfaction with HA, and the adoption and use rates of HA.  
 Research Hypotheses 1) Participants' self-efficacy, readiness and expectations about  
 HA will be improved by the new rehabilitationprogram; 2) The benefit and satisfaction  
 with HA, and the adoption and use rates of HA will be better for the participantsexposed  
 to the new rehabilitation program in comparison with those exposed to the standard  
 clinicalintervention.

**Under Review [n=1]**

2020/4 - 2024/8  
 Co-applicant

Remediation Training for Adults with Low Literacy: Skill-based vs. Goal-based Approaches  
 for Improving Academic, Professional and Social Well-being., Grant, Operating  
 Clinical Research Project?: No

**Funding Sources:**

Spencer Foundation (USA)  
 Research Grants on Education: Large  
 Total Funding - 423,430 (United States dollar) (United States dollar)  
 Funding Reference Number: 10019676

## Courses Taught

- 2002/09/09            Instructor, University of Alberta  
 Course Title: CSD515 - Audiology/Hearing Science  
 Course Topic: Audiology/Hearing Science  
 Course Level: Graduate  
 Number of Students: 56  
 Number of Credits: 3  
 Lecture Hours Per Week: 3  
 Lab Hours Per Week: 3
- 2018/03/19 -  
 2018/04/23            Coordinator/instructor, University of Alberta  
 Course Title: Rehab 599 Advanced Design, Research Methods, and Univariate Statistics  
 Course Level: Graduate  
 Number of Students: 15  
 Number of Credits: 3  
 Lecture Hours Per Week: 3
- 2013/01/01 -  
 2013/04/30            Instructor, University of Alberta  
 Course Title: Independent Study in Data Analysis  
 Course Code: CSD598  
 Course Topic: Statistics/Research Design  
 Course Level: Graduate  
 Number of Students: 14  
 Number of Credits: 3  
 Lab Hours Per Week: 2  
  
 Co-instructors: Cummine, Jacqueline

## Course Development

- 2017/9                Course Developer, Communication Sciences and Disorders  
 Course Title: CSD 515 - Hearing Science/Audiology  
 Course Level: Graduate

## Program Development

Committee Member, Communication Sciences and Disorders, University of Alberta  
 Program Title: Development of An Audiology Program  
 Course Level: Graduate  
 Program Description: I am a key member of a University Committee aiming to start an audiology program at the University of Alberta.  
 Unique / innovative characteristics: The Audiology program has passed all levels of approval within the University of Alberta. However, due to budgetary constraints, the provincial government has opted to hold off on funding this program.

## Student/Postdoctoral Supervision

### Bachelor's Honours [n=4]

2018/9 Co-Supervisor	Cory McKenzie, University of Alberta Student Canadian Residency Status: Canadian Citizen Thesis/Project Title: Are Hearing Aids With Directional Microphones Beneficial In a Complex Audio-Visual Environment.  Project Funding Sources: University of Alberta Amount - 5,000 (Canadian dollar)
2017/1 - 2017/4 Academic Advisor	Parikshit Mukerjee, University of Alberta Thesis/Project Title: Neuroimaging and TDCS Present Position: Student
2016/9 - 2017/12 Academic Advisor	Rabail Shahid (Completed) , University of Alberta Thesis/Project Title: The White Matter Architecture of Language Processing Centers in Individuals with Autism Relating Figurative Language Performance to White Matter Present Position: Student
2016/9 - 2017/4 Academic Advisor	Miya Villarena (Completed) , University of Alberta Specialization: Neuroscience Student Degree Start Date: 2016/9 Thesis/Project Title: Transcranial Direct Current Stimulation Applications in Improving Reading performance. Present Position: Research Assistant

### Master's non-Thesis [n=13]

Principal Supervisor	Wong Kimberley (Completed) , U of A Student Degree Start Date: 2009/9 Student Degree Received Date: 2011/6 Project Description: Comparison of Transcutaneous versus Percutaneous Amplification with Baha Present Position: SLP Grad Student
Principal Supervisor	Ball Adina (Completed) , U of A Student Degree Start Date: 2009/9 Student Degree Received Date: 2011/6 Project Description: Comparison of Transcutaneous versus Percutaneous Amplification with Baha Present Position: SLP Grad Student
2017/9 - 2018/8 Co-Supervisor	Tyson Sereda, University of Alberta Thesis/Project Title: The effects of lidocaine on reading performance. Present Position: Student
2017/9 - 2018/8 Co-Supervisor	Chris Parbery, University of Alberta Thesis/Project Title: The effects of lidocaine on reading performance. Present Position: Student
2017/9 - 2018/8 Co-Supervisor	Aimee-Jeanne Garthus, University of Alberta Thesis/Project Title: The effects of lidocaine on reading performance. Present Position: Student

2017/9 - 2018/8  
Co-Supervisor

Cassie Tam (In Progress) , University of Alberta  
Student Degree Start Date: 2017/9  
Student Degree Expected Date: 2019/12  
Thesis/Project Title: The effects of lidocaine on reading performance.  
Present Position: student

#### **Student Recognitions**

2018 - 2019                      Canada Graduate Scholarships-Master's Program  
Natural Sciences and Engineering Research Council of Canada  
(NSERC)  
Prize / Award

2016/11 - 2017/12  
Co-Supervisor

Ashley Sawatzky (In Progress) , University of Alberta  
Student Degree Start Date: 2016/9  
Student Degree Expected Date: 2018/12  
Student Canadian Residency Status: Canadian Citizen  
Thesis/Project Title: Representation of hearing loss and hearing aids in mainstream media  
Project Description: We will evaluating the portrayal of hearing loss and hearing aids in the mainstream media using an archived database at the U of A. We will be using a systematic coding approach with several key constructs of interest(e.g., tone, presence/nature of stereotypes, source of information, solution/treatment options etc.).  
Present Position: SLP

2016/10 - 2018/12  
Co-Supervisor

Nancy Liu (In Progress) , University of Alberta  
Student Degree Start Date: 2016/9  
Student Degree Expected Date: 2018/12  
Student Canadian Residency Status: Canadian Citizen  
Thesis/Project Title: Assessing the Influence of Compression Parameter Adjustments on Sound Preference  
Project Description: It is well known that increases in an individual's contribution to the development/construction of a product or item is associated with increases in perceived value. This is known as the 'Ikea Effect'. The extent to which this phenomenon applies to individuals listening to sounds is unknown. However, we suspect that, on average, people prefer to be actively involved in the setting of the sound to their own preference more than just being given a prescribed sound setting by a hearing expert. We predict that individuals who feel they have helped to "build" or "set" the sound on their own will prefer that sound more than a setting prescribed by another person or even a hearing expert.  
Present Position: SLP

2016/9 - 2018/12  
Co-Supervisor

Julie Van Wolde (In Progress) , University of Alberta  
Student Degree Start Date: 2016/9  
Student Degree Expected Date: 2018/12  
Student Canadian Residency Status: Canadian Citizen  
Thesis/Project Title: Representation of Hearing Loss and Hearing Aids in the Mainstream Media  
Project Description: We will evaluating the portrayal of hearing loss and hearing aids in the mainstream media using an archived database at the U of A. We will be using a systematic coding approach with several key constructs of interest(e.g., tone, presence/nature of stereotypes, source of information, solution/treatment options etc.).  
Present Position: SLP

- 2016/7 - 2018/12  
Co-Supervisor Michelle Schmidt (In Progress) , University of Alberta  
Student Degree Start Date: 2016/9  
Student Degree Expected Date: 2018/12  
Student Canadian Residency Status: Canadian Citizen  
Thesis/Project Title: Assessing the Influence of Compression Parameter Adjustments on Sound Preference  
Project Description: It is well known that increases in an individual's contribution to the development/construction of a product or item is associated with increases in perceived value. This is known as the 'Ikea Effect'. The extent to which this phenomenon applies to individuals listening to sounds is unknown. However, we suspect that, on average, people prefer to be actively involved in the setting of the sound to their own preference more than just being given a prescribed sound setting by a hearing expert. We predict that individuals who feel they have helped to "build" or "set" the sound on their own will prefer that sound more than a setting prescribed by another person or even a hearing expert.  
Present Position: SLP
- 2015/9 - 2017/8  
Co-Supervisor Emily Sullivan (Completed) , University of Alberta  
Student Degree Start Date: 2015/9  
Student Canadian Residency Status: Canadian Citizen  
Thesis/Project Title: Spatial Navigation in Unilateral Conductive Hearing Loss  
Present Position: SLP
- 2015/9 - 2017/12  
Co-Supervisor Luanne Luu (Completed) , University of Alberta  
Student Degree Start Date: 2015/9  
Student Canadian Residency Status: Canadian Citizen  
Thesis/Project Title: Spatial Navigation in Unilateral Conductive Hearing Loss  
Present Position: SLP
- 2013/9 - 2016/4  
Principal Supervisor Myriam Bernier (Completed) , University of Alberta  
Student Degree Start Date: 2013/9  
Student Degree Received Date: 2016/4  
Student Canadian Residency Status: Canadian Citizen  
Thesis/Project Title: Remote considerations for audiology in Alberta  
Present Position: SLP

**Master's Thesis [n=16]**

- Principal Supervisor Christina Sequiera (Withdrawn) , University of Alberta  
Student Degree Start Date: 2012/1  
Project Description: Sound quality assessment in advanced bone anchored hearing aids.
- Co-Supervisor Waito Ashely (Completed) , University of Alberta  
Student Degree Start Date: 2010/9  
Student Degree Received Date: 2012/12  
Project Description: Comparison of Accelerometers and Microphones for the Measurement of Complex Swallows
- Principal Supervisor Wetter Tyler (Completed) , University of Alberta  
Student Degree Start Date: 2010/9  
Student Degree Received Date: 2012/12  
Project Description: Sound Quality Comparisons of Bone Conduction Aids
- Co-Supervisor Heather Logan (Completed) , University of Alberta  
Student Degree Start Date: 2009/9  
Student Degree Received Date: 2011/12  
Project Description: Manual vs Advanced Digital Planning in Mandibular Reconstruction Surgery



- Co-Supervisor Woelflin Fausto (Completed) , Chalmers, Sweden  
 Student Degree Start Date: 2009/9  
 Student Degree Received Date: 2011/6  
 Project Description: Mechanical Point Impedance of Human Heads In Vivo
- Co-Supervisor Knutilla Erica (Completed) , University of Alberta  
 Student Degree Start Date: 2008/9  
 Student Degree Received Date: 2010/12  
 Project Description: Effects of Loudness and rate on Voice Onset Time in CI Users
- Principal Supervisor Isaakson Anders (Completed) , Chalmers, Sweden  
 Student Degree Start Date: 2007/9  
 Student Degree Received Date: 2009/12  
 Project Description: Development of a Verification System for Bone Anchored Hearing Aids  
 Present Position: Engineer
- Principal Supervisor Wennerberg Mikael (Completed) , Chalmers, Sweden  
 Student Degree Start Date: 2007/9  
 Student Degree Received Date: 2009/12  
 Project Description: Development of a Verification System for Bone Anchored Hearing Aids  
 Present Position: Engineer
- Principal Supervisor Brandner Nicole (Completed) , University of Alberta  
 Student Degree Start Date: 2005/9  
 Student Degree Received Date: 2008/6  
 Project Description: Teenage iPod Use  
 Present Position: SLP
- Principal Supervisor Szarko Ryan (Completed) , University of Alberta  
 Student Degree Start Date: 2004/9  
 Student Degree Received Date: 2007/6  
 Project Description: Exercise and iPod Use  
 Present Position: SLP
- 2017/8 - 2017/8  
 Principal Supervisor Griedanus Krista (Completed) , University of Alberta  
 Student Degree Start Date: 2010/9  
 Student Degree Received Date: 2012/12  
 Thesis/Project Title: Automated vs. Manual Audiometry in Children  
 Project Description: Automated vs. Manual Audiometry in Children  
 Present Position: SLP

- 2016/9 - 2017/12  
Co-Supervisor  
Kristina Kuffel Kupferschmidt (Completed) , University of Alberta  
Student Degree Start Date: 2016/9  
Student Degree Received Date: 2018/1  
Student Canadian Residency Status: Canadian Citizen  
Thesis/Project Title: Evaluating the Performance of a Swallow Detection Algorithm  
Designed for Head and Neck Cancer Patients in the Stroke Population  
Present Position: Engineer
- Student Recognitions**
- Best Poster Prize - Annual Glenrose Research Day  
Glenrose Rehabilitation Hospital  
Prize / Award
- Best Poster at the Annual Faculty of Rehab Med research Day -  
2017  
Prize / Award
- 2016/1 - 2017/6  
Academic Advisor  
Kulpreet Cheema (Completed) , University of Alberta  
Student Degree Start Date: 2016/1  
Thesis/Project Title: Underlying Neurobiology of Spelling Deficits in Adults with an Adult  
Dyslexia  
Present Position: Student
- 2015/9 - 2017/4  
Academic Advisor  
Andrea Tam (Completed) , University of Alberta  
Thesis/Project Title: Neuromuscular Control of Vocal Loudness in Adults as a Function of  
Cue  
Present Position: SLP
- 2015/9 - 2017/5  
Co-Supervisor  
Martin Osswald (Completed) , University of Alberta  
Student Degree Start Date: 2011/1  
Student Degree Received Date: 2014/12  
Thesis/Project Title: Characterizing the Surfaces of Implants  
Present Position: Prosthodontist
- 2013/9 - 2015/12  
Co-Supervisor  
Laila Steen (Completed) , University of Alberta  
Student Degree Start Date: 2013/9  
Student Degree Received Date: 2015/12  
Student Canadian Residency Status: Student Work Permit  
Thesis/Project Title: Modelling the nasal tract for surgical training  
Present Position: Employed in Belgium as a surgical design simulator
- Doctorate [n=5]**
- 2018/6 - 2022/1  
Co-Supervisor  
Kulpreet Cheema (In Progress) , University of Alberta  
Specialization: Neuroscience  
Student Degree Start Date: 2018/6  
Thesis/Project Title: Neuroimaging in Reading and Spelling  
Present Position: Student
- Project Funding Sources: Natural Sciences and Engineering Research Council of Canada  
(NSERC)  
Amount - 63,000 (Canadian dollar)
- 2017/9 - 2021/9  
Co-Supervisor  
Craig St. Jean (In Progress) , University of Alberta  
Thesis/Project Title: Telling the right story at the right time in the right setting: Exploring  
the role of narratives, prehabilitation and context in care.  
Present Position: Student

2012/1 - 2018/6  
Co-Supervisor Gabriela Constantinescu (All But Degree) , University of Alberta  
Student Degree Start Date: 2012/9  
Student Degree Expected Date: 2018/6  
Thesis/Project Title: Development and Evaluation of a Mobile Health Solution for Patients with Dysphagia  
Project Description: Evaluation of a Mobile Health Solution For Swallowing for Individuals with Head and Neck Cancer  
Present Position: SLP

2012/1 - 2016/10  
Academic Advisor Lindsey Westover (Completed) , University of Alberta  
Student Degree Start Date: 2012/9  
Student Degree Received Date: 2016/6  
Thesis/Project Title: On the Stability of Implants  
Project Description: On a device to measure the stability of osseointegrated implants  
Present Position: Engineer

2012/1 - 2016/12  
Academic Advisor YongQiang Yu (Completed) , University of Alberta  
Student Degree Start Date: 2012/1  
Student Degree Received Date: 2016/12  
Thesis/Project Title: The Evaluation of Frequency Specific Cochlear Damage: Measurement of Low Frequency Hearing Function  
Present Position: ENT

### **Doctorate Equivalent [n=3]**

Principal Supervisor Szudek Jacek (Completed) , University of Alberta  
Student Degree Start Date: 2006/5  
Student Degree Received Date: 2011/12  
Project Description: Comparison of Technologies to Treat Single Sided Deafness  
Present Position: Otolaryngologist

Principal Supervisor Yu Jeffrey (Completed) , University of Alberta  
Student Degree Start Date: 2006/5  
Student Degree Received Date: 2012/12  
Project Description: Manual versus Automated Audiometry  
Present Position: Otolaryngologist

Principal Supervisor Dumper Jaymi (Completed) , University of Alberta  
Student Degree Start Date: 2003/5  
Student Degree Received Date: 2008/12  
Project Description: Indications for Bone Anchored Hearing Aids: An Outcome Study  
Present Position: Otolaryngologist

### **Post-doctorate [n=1]**

2016/9 - 2018/6  
Co-Supervisor Lindsey Westover (Completed) , University of Alberta  
Student Degree Start Date: 2016/9  
Student Degree Received Date: 2018/6  
Student Canadian Residency Status: Canadian Citizen  
Thesis/Project Title: Evaluation of hearing and reading.  
Present Position: Engineer

**Level Not Specified [n=2]**

- Academic Advisor Julia Craig  
Thesis/Project Title: Exploring the Role of Social Comparison on Cognitive Load and Reading Performance  
Project Funding Sources: University of Alberta  
Amount - 5,000 (Canadian dollar)
- Academic Advisor Tina Huyuh, University of Alberta  
Thesis/Project Title: Finding the Correlation between Oral Form Task and Reading Performance in Children  
Project Funding Sources: University of Alberta  
Amount - 5,000 (Canadian dollar)

**Staff Supervision**

Number of Scientific and Technical Staff: 3

Number of Volunteers: 7

**Event Administration**

- 2013/7 - 2015/6 International Host, 5th International Congress on Bone Conduction Hearing and Related Technologies, Conference, RES Seminars, 2015/5 - 2015/5  
I hosted the International Symposium of Bone Conduction Hearing and Related Technologies. The host of this meeting takes on all the responsibilities as there is no formal organization attached to the meeting. The host has to secure the venue, raise financial support (We raised 137500 dollars), and coordinate the entire program from legal to meals to scientific integrity. We brought in 283 people from 27 countries to this meeting.  
[http://www.osseo2015.com/osseo2015\\_programbook.pdf](http://www.osseo2015.com/osseo2015_programbook.pdf)

**Editorial Activities**

- 2016/8 - 2020/7 Editor, Frontiers in Public Health, Journal  
I am an Editor for Frontiers in Public Health. This journal is part of the frontiers family.

**Mentoring Activities**

- 2016/9 Mentor, University of Alberta  
Number of Mentorees: 2  
Mentorees: Trelani Chapman Daniel Aalto  
Mentoring two assistant faculty members

**Journal Review Activities**

- Reviewer, Canadian Acoustics  
Number of Works Reviewed / Refereed: 1
- 2018/2 Reviewer, Journal of the Canadian Acoustical Association  
Number of Works Reviewed / Refereed: 1

2011/1	Reviewer, International Journal of Audiology Number of Works Reviewed / Refereed: 5
2010/1	Reviewer, Ear and Hearing Number of Works Reviewed / Refereed: 7
2017/11 - 2017/11	Reviewer, Clinical Otolaryngology Number of Works Reviewed / Refereed: 2
2017/11 - 2017/11	Reviewer, International Journal of Audiology Number of Works Reviewed / Refereed: 1
2016/7 - 2017/6	Reviewer, Clinical Otolaryngology. Number of Works Reviewed / Refereed: 1

### Conference Review Activities

2011/9	Reviewer, Canadian Academy of Audiology, Open, Canadian Academy of Audiology
2011/1	Reviewer, Osseo 2011, 2013, 2015, 2017, Double Blind
2016/1 - 2016/9	Reviewer, World Congress of Audiology, Double Blind, International Society of Audiology

### Graduate Examination Activities

2010/9 - 2016/12	Candidacy Committee Member, YongQiang Yu, University of Alberta
2012/9 - 2016/6	Candidacy Committee Member, Lindsey Westover, Mechanical Engineering

### Research Funding Application Assessment Activities

2014/6 - 2014/9	External Reviewer, Funder, Academic Reviewer, Grand Challenges Number of Applications Assessed: 1
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### Promotion Tenure Assessment Activities

	External Reviewer, University of Western Ontario Reviewed Promotion package and provided feedback for a candidate to be promoted from Associate to Full Professor
2015/11 - 2015/11	Internal Reviewer, Communication Sciences and Disorders, University of Alberta I was responsible for reviewing and provided expert feedback on the tenure promotion package for a candidate seeking to advance to a tenured associate professor position at the faculty evaluation committee meeting.

### Organizational Review Activities

2016/6 - 2017/12	Leadership Group Committee Member, Institute for Reconstructive Sciences in Medicine Ongoing input toward restructuring, governance, role definitions, maintenance and clinical/research considerations for iRSM.
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## Event Participation

- 2015/5 - 2019/11      Advisor, Osseo 2017, Osseo 2019, Conference  
I have remained an advisor to the future Osseo meetings in Bone conduction. I also continue to serve as a member of the Scientific Advisory committee for both the podium and poster evaluations.
- 2015/10 - 2016/9      President - Canadian Academy of Audiology, World Congress of Audiology, Conference Co-Host and President of CAA for the World Congress of Audiology. This congress brought in 1200 full registrations, 110 pre-conference workshop registrations and 108 students from 44 countries.

## Knowledge and Technology Translation

- 2016/10 - 2025/1      Co-inventor, Technology Transfer and Commercialization  
Group/Organization/Business Serviced: Oticon Medical  
Target Stakeholder: Industry/Business (>500 employees)  
Outcome / Deliverable: We have successfully developed and licensed a prescriptive algorithm that can be used to set a hearing aid to the appropriate output target on an individual basis.  
Evidence of Uptake/Impact: This has been implement in the most recent versions of Oticon Medical's "Genie" software that is used to program and fit their hearing aids. It has also been licensed to Audioscan for their hearing aid analyzers.

## International Collaboration Activities

- 2016/9                      Collaborator, Switzerland  
Gurjit Singh is an academic researcher for Phonak. Gurjit and I collaborate on the challenges associated with uptake and adherence to hearing care services. We are currently studying the impact of messaging on the behaviours and barriers associated with uptake and adherence to hearing care services.
- 2015/4                      Collaborator, Netherlands  
Myrthe and I worked together on the transition from my hosting of the Osseo 2015 conference to the Osseo 2017 conference. This international conference brings all bone conduction researchers from Surgery, Audiology, and Engineering together every 2 years. We have also resurrected a very important award that was given at the Osseo 2017 meeting. This award was started at iRSM. We updated the terms of reference for the award, made new medals, and provided the award a new home under the Osseo conference management.
- 2015/4                      Collaborator, United States  
Satish K Kedia is a member of AURONET. He brings with him an expertise in qualitative design and stakeholder engagement.
- 2014/6                      Collaborator, United Kingdom  
Peter Monksfield is a member of AURONET. Peter is a surgeon with expertise in economic outcomes related to bone conduction research.
- 2014/6                      Collaborator, United Kingdom  
James Tysome in an academic ENT surgeon who is a member of AURONET.
- 2014/6                      Collaborator, United States  
Brian McKinnon in an ENT surgeon and a member of AURONET.

- 2014/6 Collaborator, United Kingdom  
Penny Hill Feltham is an audiologist and a member of AURONET.
- 2014/6 Collaborator, United States  
Ravi Socklingham is an Audiologist and a member of AURONET.
- 2013/6 Collaborator, Sweden  
Martin Johansson has been working with us on two projects. The first is looking into the implant stability of newly designed implants in animal models. This involves using a system that we developed here at the U of A call the ASIST (Advanced System for Implant Stability Testing). Additionally, Martin has recently begun using our newly developed surface mic to compare the vibration of an implanted bone conduction device to a laser doppler vibrometer in sheep skulls and human cadavers. He is also a member of AURONET.
- 2003/9 Collaborator, Netherlands  
Ad Snik is one of the most published and cited authors in the field of bone conduction. We have worked together to produce consensus statements for bone conduction work. Recently we have been working together on AURONET.
- 2002/9 Collaborator, Netherlands  
Arjan Bosman has been both a mentor and a collaborator and remains so today. We continue to reinforce, internationally, the value of technology improvements in the context of better hearing care.
- 2002/9 Collaborator, Sweden  
Bo Hakansson remains my closest international collaborator and one of the most respected minds in bone conduction. Bo has sent 3 students from Gothenburg to study with me here in Canada. Additionally, I was able to hire a former student of his for a 3 year work period on a bone conduction project.
- 2010/1 - 2017/2 Collaborator, Denmark  
Matthias Mullenborn and Patrik Maas work for Oticon Medical. Matthias and Patrik are Engineers. Matthias has served for more than 7 years as a project manager for two separate grants. The first grant Involved Oticon Medical as an industrial Partner under the Western Economic Partnership Agreement (WEPA). In this collaboration we worked to understand the most appropriate methods for measuring the output of bone conduction devices so that we could then prescribe and verify the output on an individual basis. This collaboration has now led to our prescription (DSL-BC) being licensed in the manufacturer's software. We have also published the method and protocols for doing this work. Recently we have been working on another grant that has us developing another new method of assessing bone conduction output. This new product, developed at the U of A, is now in the hands of a hearing aid analyzer company (Interacoustics) looking at the business case for selling the device.

## Committee Memberships

- 2018/1 Committee Member, Engagement and Promotion Committee, University of Alberta
- 2016/7 Committee Member, Admissions, University of Alberta  
Member of the dept committee that reviews and grants admission to the MSc-SLP program in the faculty of rehabilitation medicine.
- 2015/7 Committee Member, Research Strategies and Supports Committee, University of Alberta

## Most Significant Contributions

- 2016/9 Knowledge to Practice  
For many years I have been working on various aspects of verification and prescription for Bone conduction amplification. This has led to two companies (Oticon Medical and Audioscan) to include the prescription in their fitting software so that all clinicians who fit their devices can use the DSL Bone Conduction prescription to program their hearing aids.  
Raising Awareness about the potential hazards of leisure noise on hearing.  
I have raised awareness in the areas of earphone/headphone listening levels, arena noise, and impulse sounds (e.g., balloon bursts).
- 2015/9 President Canadian Academy of Audiology  
Guided our association of audiologists to our highest membership level and highest financial surplus. We shaped the board of directors and the executive team to a position of strong leadership and succession for the next many years.
- 2015/5 Host - 5th International Symposium on Bone Conduction Hearing and Related Technologies.  
I hosted the International Symposium of Bone Conduction Hearing and Related Technologies. This was the busiest and most rewarding thing I've done academically. The host of this meeting takes on all the responsibilities, as there is no formal organization attached to the meeting. The host has to secure the venue, raise financial support (We raised 137500 dollars), and coordinate the entire program from legal to meals to scientific integrity. We brought in 283 people from 27 countries to this meeting.
- 2015/7 Development of an Audiology Program Approval  
Contributed to developing and guiding the audiology program proposal through all the approvals necessary at the University of Alberta to support a new program in Audiology. Funding the program is now our next objective with the government.
- 2014/4 Co-founder and member of the Auditory Rehabilitation Outcomes Network.  
AURONET is an international initiative to develop core sets of patient-centred outcome measures to assess interventions for hearing loss. Members come from Audiology, Otolaryngology, Nursing and Engineering. To date we have published two papers with 2 more in preparation.

## Presentations

1. Kulpreet Cheema William Hodgetts Jacqueline Cummine. (2019). Resting-state brain connectivity in individuals with dyslexia. Society for the Scientific Study of Reading, Toronto, Canada  
Main Audience: Researcher, Competitive?: Yes  
Description / Contribution Value: July
2. Jacqueline Cummine, Angela Cullum, Amberley Ostevik, Daniel Aalto, Caroline Jeffrey, William Hodgetts. (2019). From brains to behaviours: The role of somatosensory feedback in the print-to-speech model. Society for the Scientific Study of Reading, Toronto, Canada  
Main Audience: Researcher, Competitive?: Yes
3. L. Westover, G. Faulkner, W. Hodgetts, D. Raboud. (2019). Noninvasive measurement of tooth stability and periodontal ligament stiffness. 16th International Symposium on Computer Methods in Biomechanics and Biomedical Engineering and the 4th Conference, New York, United States, Competitive?: Yes
4. Julia Craig Amberley V. Ostevik Lindsey Westover William Hodgetts Jacqueline Cummine. (2018). Exploring brain activation during response inhibition reading tasks. Neuroscience Undergraduate Research Day, Edmonton, Canada  
Invited?: No, Keynote?: No



5. Kulpreet Cheema William Hodgetts Jacqueline Cummine. (2018). Relationship Between Functional Connectivity and Spelling Behaviour in Individuals with Dyslexia. Society for the Neurobiology of Language, Quebec City, Canada  
Main Audience: Researcher  
Invited?: No, Keynote?: No, Competitive?: Yes
6. Jacqueline Cummine Angela Cullum Daniel Aalto Cassidy Fleming Alesha Reed Amberley Ostevik William Hodgetts. (2018). What Can We Learn About Reading from a Lollipop? Exploring the role of sensorimotor feedback on the speed of reading in adults and children. Society for the Neurobiology of Language, Quebec City, Canada  
Main Audience: Researcher  
Invited?: No, Keynote?: No, Competitive?: Yes
7. (2018). Bilateral Hearing In Bone Conduction. Oticon Medical Scientific Meeting, Copenhagen, Denmark  
Main Audience: Knowledge User  
Invited?: Yes, Keynote?: Yes
8. (2018). Non-Auditory Factors that Factor into Outcomes. Annual General Meeting of the Canadian Academy of Audiology, Niagara Falls, Canada  
Main Audience: Knowledge User  
Invited?: Yes, Keynote?: No
9. Susan Scollie Bill Hodgetts. (2018). DSL for Bone-Anchored Hearing Devices: Prescriptive Targets and Verification Solutions. Audiology Online Webinar, London, United States  
Main Audience: Knowledge User  
Invited?: Yes, Keynote?: No  
Description / Contribution Value: Online Webinar - Delivered April 10, 2018
10. (2018). Why Greater Maximum Output Matters to All Bone Conduction Users. Oticon Medical Scientific Meeting, Denmark, Canada  
Main Audience: Knowledge User  
Invited?: Yes, Keynote?: Yes
11. Bill Hodgetts, PhD Dylan Scott, MSc Patrick Maas, Msc Lindsey Westover, PhD. (2017). Verification of Bone Conduction Amplification: A new approach to an old problem. Osseo 2017 6th International Congress on BONE CONDUCTION HEARING AND RELATED TECHNOLOGIES, Nijmegen, Netherlands  
Main Audience: Knowledge User  
Invited?: No, Keynote?: No, Competitive?: Yes  
Description / Contribution Value: First public presentation of the new verification tool we have been developing.
12. Kristina Kuffel, Bill Hodgetts, Jana Rieger. (2017). Evaluating The Performance of a Swallow Detection Algorithm designed for head and neck cancer patients in the stroke population. Faculty of Rehabilitation Medicine Research Day, Edmonton, Canada  
Main Audience: Researcher  
Invited?: No, Keynote?: No, Competitive?: No
13. Bill Hodgetts, Daniel Aalto, Amberley Ostevik, Jacqueline Cummine. (2017). This Test is Really Hard: Altering Hearing Performance in Noise with Just a Few Words. Osseo 2017 6th International Congress on Bone Conduction Hearing and Related Technologies, Nijmegen, Netherlands  
Main Audience: Knowledge User  
Invited?: No, Keynote?: No, Competitive?: No  
Description / Contribution Value: Performance on a sensitive audiological outcome measure can be altered by simply changing a few words in how the test was introduced. This paper is a component of a larger body of work looking into the meaning and influence of expectations in the context of care in Audiology.

14. (2017). AuroNet - Aural Rehabilitation Outcomes Network. Oticon Scientific Meeting, 2017, Copenhagen, Denmark  
Main Audience: Knowledge User  
Invited?: Yes, Keynote?: Yes, Competitive?: No
15. (2017). Prescription, Verification and Outcome Measure in Bone Conduction Devices. Oticon Scientific Meeting - 2017, Copenhagen, Denmark  
Main Audience: Knowledge User  
Invited?: Yes, Keynote?: No, Competitive?: No
16. Hodgetts, W.E. Ostevik, A. Aalto, D. Cummine, J. (2017). Don't Fade into the Background. A randomized trial exploring the effects of message framing in audiology. Canadian Academy of Audiology Annual Conference, Ottawa, Canada  
Main Audience: Knowledge User  
Invited?: No, Keynote?: No, Competitive?: Yes
17. Constantinescu, G., King, B., Kuffel, K., Scott, D., Aalto, D., McPhee, K., Fedorak, M., Hodgetts, B., Rieger, J. (2017). Motivating patients in home-based swallowing therapy using mobile health applications. Covenant Health Research Day, Edmonton, Alberta., Canada  
Main Audience: Researcher  
Invited?: Yes, Keynote?: No
18. Hodgetts, W.E. Aalto, D. Ostevik, A. Cummine, J. (2017). This Test is Really Hard: Altering Hearing Performance in Noise with Just a Few Words. Canadian Academy of Audiology, Ottawa, Canada  
Main Audience: Knowledge User  
Invited?: No, Keynote?: No, Competitive?: Yes
19. Cheema, K. Hodgetts, W.E. Cummine, J. (2017). Functional Connectivity For Spelling in Skilled and Impaired Readers. Neurobiology of Language, Baltimore, United States  
Main Audience: Researcher  
Invited?: No, Keynote?: No, Competitive?: Yes
20. Dylan Scott, Patrick Maas, Bill Hodgetts. (2017). Development and Benchtop Validation of a Novel Technique for Verification of Bone Conduction Amplification. Osseo 2017 6th International Congress on Bone Conduction Hearing and Related Technologies, Nijmegen, Netherlands  
Main Audience: Knowledge User  
Invited?: No, Keynote?: No, Competitive?: Yes
21. (2017). Dynamic Range in Bone Conduction Hearing. Osseo 2017 6th International Congress on Bone Conduction Hearing and Related Technologies, Nijmegen, Netherlands  
Main Audience: Knowledge User  
Invited?: Yes, Keynote?: No, Competitive?: No
22. Kulpreet Cheema, BSc, William Hodgetts, PhD and Jacqueline Cummine, PhD. (2017). Investigating Functional Connectivity for Spelling Tasks. Faculty of Rehabilitation Medicine Research Day, Edmonton, Canada  
Main Audience: Researcher  
Invited?: No, Keynote?: No, Competitive?: No
23. (2016). Prescription and Verification for Pediatric Bone Conduction Users. Seventh Sound Foundation Conference, Atlanta, United States  
Main Audience: Researcher  
Invited?: Yes, Keynote?: Yes
24. (2016). How do we measure outcomes for SSD. 10th International Congress on Cholesteatoma and Ear Surgery, Edinburgh, United Kingdom  
Main Audience: Researcher  
Invited?: Yes, Keynote?: No

25. (2016). Prescription and Verification for Bone Conduction Users. Product Launch for DSL-BC., Leeds, United Kingdom  
Main Audience: Knowledge User  
Invited?: Yes, Keynote?: Yes, Competitive?: No  
Description / Contribution Value: This was a keynote address to 30 audiologists about the background and research that has gone into making the now licensed DSL prescription available to them. It was part of a full day workshop of using the prescription and verification approaches we have been studying for years.
26. (2016). Hearing Loss: A Conversation Stopper. University of Alberta's Lunch and Learn, Edmonton, Canada  
Main Audience: Researcher  
Invited?: Yes, Keynote?: No
27. (2016). Prescription, Verification and the Measurement of Outcomes in Bone Conduction Amplification. Implantable Acoustic Devices (IAD), Durham, United Kingdom  
Main Audience: Knowledge User  
Invited?: Yes, Keynote?: Yes, Competitive?: No  
Description / Contribution Value: This was a keynote lecture given to 107 UK surgeons and audiologists working in the field of implantable bone conduction devices. In the lecture I taught how we verify and prescribe bone conduction devices and also talked at length about the need for our fields to begin standardizing and developing core sets of patient reported outcomes.
28. (2016). Prescription and Verification of Bone Conduction Devices. DSL - BC Product Launch, London, United Kingdom  
Main Audience: Knowledge User  
Invited?: Yes, Keynote?: Yes, Competitive?: No  
Description / Contribution Value: This was a keynote address to 30 audiologists about the background and research that has gone into making the now licensed DSL prescription available to them. It was part of a full day workshop of using the prescription and verification approaches we have been studying for years.
29. (2015). Outcome Measure in Bone Anchored Hearing Solutions. Bone Anchored Summit of the Americas, Fort Lauderdale, United States  
Main Audience: Researcher  
Invited?: Yes, Keynote?: Yes
30. N/A. (2014). Prescribing and Verifying Bone Anchored Hearing Aids. Oticon Medical's 3rd Annual Scientific Meeting, Copenhagen, Denmark  
Main Audience: Knowledge User  
Invited?: Yes, Keynote?: No, Competitive?: No  
Description / Contribution Value: Invited to give this talk as a knowledge translation presentation involving the research our group has completed and is now disseminating
31. (2014). Advances in Bone Conduction Hearing. Annual Congress of Nova Scotia Hearing and Speech Centres, Nova Scotia, Canada  
Main Audience: Researcher  
Invited?: Yes, Keynote?: Yes
32. (2013). Prescription and Verification of Bone Anchored Devices: A comparison trial. 4th Annual conference on Osseointegration and Bone Conduction Hearing, Newcastle, United Kingdom  
Main Audience: Knowledge User  
Invited?: Yes, Keynote?: Yes
33. (2013). Dementia and Hearing Loss. annual meeting of the Alberta College of Speech Language Pathologists and Audiologists, Edmonton, Canada  
Main Audience: Knowledge User  
Invited?: Yes, Keynote?: No

34. (2013). Knowledge Translation at iRSM. annual covenant research day, Edmonton, Canada  
Main Audience: Decision Maker  
Invited?: Yes, Keynote?: No
35. (2012). Why is Verification Important for Bone Anchored Hearing?. Oticon Research Focus Forum, New Orleans, United States  
Main Audience: Researcher  
Invited?: Yes, Keynote?: No
36. (2011). Spare Part Human. Telus World of Science as part of the Real People, Real Science series, Edmonton, Canada  
Main Audience: General Public  
Invited?: Yes
37. Bance, M. (chair), Stenfelt, S., Flynn, M., Socklingham, R., Egg-Olofsson, M., Hodgetts, W. and Adamson, R. (2011). Panel discussion: Designing the next generation of processors. Third International Bone Conduction Hearing-Craniofacial Osseointegration Symposium, Sarasota, United States  
Main Audience: Knowledge User  
Invited?: Yes
38. Hodgetts, B. (chair), Stenfelt, S., Bosman, A. and Deas, R. (2011). Panel discussion: Sound localization in osseointegrated implants. Third International Bone Conduction Hearing-Craniofacial Osseointegration Symposium, Sarasota, United States  
Main Audience: Knowledge User  
Invited?: Yes
39. (2011). BAAD to the Bone: An Update on Bone Anchored Amplification Devices. Annual General Meeting of the Canadian Academy of Audiology, Victoria, Canada  
Main Audience: Knowledge User  
Invited?: Yes
40. (2010). Bone Anchored Hearing Solutions: Not as simple, but way more exciting. Rehab Seminar Series. University of Alberta, Edmonton, Canada  
Main Audience: Knowledge User  
Invited?: Yes
41. (2010). BAHAs: An update on Technology, fitting and verification strategies. 40th anniversary of the communication sciences and disorders homecoming celebration at the University of Western Ontario, London, Canada  
Main Audience: Knowledge User  
Invited?: Yes
42. (2009). Panel Discussion on the Future of Implantable Bone Conduction Technologies. Second International Symposium on Bone Conduction Hearing - Craniofacial Osseointegration, Gothenburg, Sweden  
Main Audience: Knowledge User  
Invited?: Yes
43. (2009). Baha: Fully Implantable Bone Conduction Amplification. CIMeDD group, Edmonton, Canada  
Main Audience: Knowledge User  
Invited?: Yes
44. (2009). Panel Discussion on Bone conduction Physiology, Sound Propagation. Second International Symposium on Bone Conduction Hearing - Craniofacial Osseointegration, Gothenburg, Sweden  
Main Audience: Knowledge User  
Invited?: Yes

45. (2009). Objectively Measuring the Baha. Convergence of Technologies Conferences: Cochlear Implants and Hearing Aids, Miami, United States  
Main Audience: Knowledge User  
Invited?: Yes
46. (2009). Bone Anchored Hearing Aids: Candidacy, Outcomes and Verification. Annual General Meeting of the Canadian Academy of Audiology, Toronto, Canada  
Main Audience: Knowledge User  
Invited?: Yes
47. (2009). The Edmonton Baha Experience. Second International Symposium on Bone Conduction Hearing - Craniofacial Osseointegration, Gothenburg, Sweden  
Main Audience: Knowledge User  
Invited?: Yes
48. (2009). iPods and Hearing Loss. Annual General Meeting of the Canadian Academy of Audiology, Toronto, Canada  
Main Audience: Knowledge User  
Invited?: Yes

## Broadcast Interviews

- |            |   |
|------------|---|
| 2017/02/02 | Bursting balloons is louder than a shotgun blast - and can even make you DEAF, The Mirror UK, PATRICK LION<br><a href="http://www.mirror.co.uk/news/uk-news/bursting-balloons-louder-shotgun-blast-9729442">http://www.mirror.co.uk/news/uk-news/bursting-balloons-louder-shotgun-blast-9729442</a>   |
| 2017/02/02 | Alberta researchers look into how loud popping a balloon really is, Health Matters - Global News, Global, Su-Ling Goh<br><a href="http://globalnews.ca/video/3224526/alberta-researchers-look-into-how-loud-popping-a-balloon-really-i">http://globalnews.ca/video/3224526/alberta-researchers-look-into-how-loud-popping-a-balloon-really-i</a><br>Description / Contribution Value: Interview on the potential hazards associated with impulse noise. |
| 2017/02/02 | Balloon Noise, Ottawa Radio Now, 580 CFRA, Evan Solomon<br><a href="http://www.iheartradio.ca/580-cfra/shows/ottawa-now-with-evan-solomon-1.1892475">http://www.iheartradio.ca/580-cfra/shows/ottawa-now-with-evan-solomon-1.1892475</a>  |
| 2017/02/02 | BALLOONACY Ban your kids bursting balloons say experts – the loud pops could leave them DEAF, The Sun UK, The Sun UK, Andrea Downey<br><a href="https://www.thesun.co.uk/living/2747541/a-balloon-popping-is-louder-than-a-shotgun-and-could-lead-to">https://www.thesun.co.uk/living/2747541/a-balloon-popping-is-louder-than-a-shotgun-and-could-lead-to</a>  |
| 2017/02/01 | Party Pooper: Experts Warn Popping Balloons Can Lead To Permanent Hearing Loss, TechTimes, Arriane Del Rosario<br><a href="http://www.techtimes.com/articles/195368/20170201/party-pooper-experts-warn-popping-balloons-can-lea">http://www.techtimes.com/articles/195368/20170201/party-pooper-experts-warn-popping-balloons-can-lea</a>   |
| 2017/02/01 | Watch Out: Popping Balloons Could Be As High Powered As a Shotgun, NDTV, NDTV<br><a href="http://food.ndtv.com/health/watch-out-popping-balloons-could-be-as-high-powered-as-a-shotgun-1654926">http://food.ndtv.com/health/watch-out-popping-balloons-could-be-as-high-powered-as-a-shotgun-1654926</a>  |
| 2017/02/01 | Pop goes the eardrum: burst balloons can harm hearing, The Times of London, Tom Whipple<br><a href="http://www.thetimes.co.uk/article/pop-goes-the-eardrum-burst-balloons-can-harm-hearing-7k9t9209t">http://www.thetimes.co.uk/article/pop-goes-the-eardrum-burst-balloons-can-harm-hearing-7k9t9209t</a>  |
| 2017/02/01 | U of A Releases Research into Balloon Pops, CTV News, CTV, David Ewasuk<br><a href="http://edmonton.ctvnews.ca/video?clipId=1046739">http://edmonton.ctvnews.ca/video?clipId=1046739</a>  |

- 2017/02/01 Pop! Goes That Balloon, and Maybe Your Hearing, WebMD, Robert Preidt  
<http://www.webmd.com/healthy-aging/news/20170210/pop-goes-that-balloon-and-maybe-your-hearing>
- 2017/02/01 Edmonton researchers warn popping balloons as loud as shotgun blasts, Canadian Press, Chris Purdy  
<http://globalnews.ca/news/3215041/edmonton-researchers-warn-popping-balloons-as-loud-as-shotgun-blasts>
- 2017/02/01 Por qué algo tan aparentemente inofensivo como explotar un globo puede dañar tu oído, BBC - Spanish, British Broadcasting Corporation, Redacción  
<http://www.bbc.com/mundo/noticias-38811374>
- 2017/02/01 Big bang theory: Edmonton researchers warn popping balloons as loud as gun blasts, CBC News, CBC, Chris Purdy  
<http://www.cbc.ca/news/canada/edmonton/balloon-alberta-edmonton-university-1.3959940>
- 2017/02/01 Audiologist warns that a balloon pop can be louder than a gun, As It Happens, Canadian Broadcasting Corporation (CBC), Helen Mann  
<http://www.cbc.ca/radio/asithappens/as-it-happens-wednesday-edition-1.3961694/audiologist-warns-that>  
 Description / Contribution Value: Interview about the risks of impulse noise on hearing.
- 2017/02/01 Popping A Balloon Can Be As Loud As A Shotgun Blast: Study, Huffington Post - News, Huffington Post  
[http://www.huffingtonpost.ca/2017/01/30/balloon-hearing-damage\\_n\\_14505068.html](http://www.huffingtonpost.ca/2017/01/30/balloon-hearing-damage_n_14505068.html)
- 2017/01/31 Experts warn children not to pop balloons so they don't go deaf, America Online, AOL, Shawn Nalling  
<https://www.aol.com/article/news/2017/02/01/experts-warn-children-not-to-pop-balloons-so-they-dont-g>
- 2017/01/31 Popping a balloon can cause permanent hearing damage to children, study says, Fox News, Fox, Alexa Renee  
<http://www.myfoxzone.com/news/local/popping-a-balloon-can-be-louder-than-a-shotgun-study-finds/39534>
- 2014/02/02 Noise at pro sports games can cause long-term hearing loss, CBC News, CBC, Kim Brunhuber  
<http://www.cbc.ca/news/health/noise-at-pro-sports-games-can-cause-long-term-hearing-loss-1.2519252>
- 2010/04/16 Pump up the Volume, Increase the Risk of Hearing Loss, Helix, Helix: Connecting Science to You, Amber Lindke  
<https://helix.northwestern.edu/article/pump-volume-increase-your-risk-hearing-loss>
- 2010/02/12 Pumping it Up Too Much, Audiology Online, Audiology Online  
<http://www.audiologyonline.com/releases/pumping-it-up-too-much-2877>
- 2006/12/04 Roar of the Crowd Carries Hearing Hazard, MedPage Today, Michael Smith  
<http://www.medpagetoday.com/surgery/otolaryngology/4628>
- 2017/02/03 - 2017/02/03 So, You May Want to Rethink the Balloons at Your Child's Next Birthday Party, Reader's Digest, CLAIRE NOWAK  
<http://www.rd.com/advice/parenting/balloons-cause-hearing-loss/>

## Text Interviews

- 2019/05/26 Constantly using headphones can cause hearing damage – here's how to prevent it., Leslie Young  
<https://globalnews.ca/news/5307570/headphones-earbuds-hearing-loss/>
- 2018/10/22 Why most people with hearing loss don't use hearing aids, Bev Betkowski, Folio - University of Alberta  
<https://www.folio.ca/why-most-people-with-hearing-loss-dont-use-hearing-aids/>
- 2017/05/30 Only You Can Prevent Hearing Loss, Ryan Shepard, Online and in the National Post May 30, 2017  
[http://www.personalhealthnews.ca/prevention-and-treatment/only-you-can-prevent-hearing-loss?utm\\_sour](http://www.personalhealthnews.ca/prevention-and-treatment/only-you-can-prevent-hearing-loss?utm_sour)  
 Description / Contribution Value: *This article was part of a Hearing Health campaign. It was Published within the National Post to a readership of over 896,000 Canadians and remains featured online at personalhealthnews.ca. Here is the link to the digital articles: **Only You Can Prevent Hearing Loss** [www.personalhealthnews.ca/prevention-and-treatment/only-you-can-prevent-hearing-loss?utm\\_source=client&utm\\_medium=social](http://www.personalhealthnews.ca/prevention-and-treatment/only-you-can-prevent-hearing-loss?utm_source=client&utm_medium=social)*

## Publications

### Journal Articles

1. Cory McKenzie, Amberley Ostevik, William Hodgetts, Jacqueline Cummine, Daniel Aalto. Associations Between Musical Experience and Auditory Discrimination. Hearing Research. ,  
 Refereed?: Yes, Open Access?: No  
 Description / Contribution Value: Submitted July 19, 2019
2. \*Angela Cullum; William E. Hodgetts; Trelani F. Milburn; Jacqueline Cummine. (2019). Cerebellar Activation During Reading Tasks: Exploring the Dichotomy between Motor vs. Language Functions in Adults of Varying Reading Proficiency. The Cerebellum. : 1-17.  
<http://dx.doi.org/10.1007/s12311-019-01024-6>  
 Co-Author  
 Published,  
 Refereed?: Yes, Open Access?: No  
 Number of Contributors: 4  
 Contribution Percentage: 21-30
3. Ad Snik, Hannes Maier, William Hodgetts, Martin Kompis, Griet Mertens, Paul van de Heyning, Thomas Lenarz, Arjan Bosman. (2019). Efficacy of implantable hearing devices for patients with conductive or mixed hearing loss depends on the implant centre; the development of a fitting rule. Otolology and Neurotology. 40(4): 430-435.  
 Co-Author  
 Published,  
 Refereed?: Yes, Open Access?: No, Synthesis?: Yes  
 Number of Contributors: 8  
 Contribution Percentage: 21-30
4. \*Cheema, Kulpreet; Hodgetts, Williams; Cummine, Jacqueline. (2019). Is the letter 't' in the word 'gourmet'? A Characterization of spelling networks between skilled and impaired readers. Human Brain Mapping. Submitted,  
 Refereed?: Yes, Open Access?: No  
 Contribution Percentage: 21-30  
 Description / Contribution Value: Submitted Jan 14, 2019

5. P Monksfield BJ McKinnon P Hill-Feltham WE Hodgetts ML Johansson A Ostevik R Sockalingam T Wright JR Tysome. (2019). Economic outcome measures for conductive and mixed hearing loss treatment: A systematic review. *European Archives of Oto-Rhino-Laryngology*.  
Co-Author  
Submitted,  
Refereed?: Yes, Open Access?: No, Synthesis?: Yes  
Description / Contribution Value: Submitted June 24th, 2019
6. Jacqueline Cummine, PhD \*Angela MC Cullum, BA Daniel Aalto, PhD \*Cassidy Fleming, BSc \*Alesha Reed, BSc Amber Ostevik, BEng, MSc William Hodgetts, PhD. (2019). Somatosensory Feedback Modifies Silent Reading Performance in Children. *Developmental Psychology* Submitted Jan 23, 2019.  
Last Author  
Submitted,  
Refereed?: Yes, Open Access?: No  
Number of Contributors: 7  
Contribution Percentage: 21-30
7. Noor Al-Zanoon, Angela Cullum, Jacqueline Cummine, Caroline Jeffery, Willaim Hodgetts, Daniel Aalto. (2019). The Role of Somatosensory Feedback in the Production of the English Vowel /i/ In Females. *International Congress of Phonetic Sciences*.  
Co-Author  
Accepted,  
Refereed?: Yes, Open Access?: No, Synthesis?: No
8. \*Lindsey Westover, Ph.D. Amberley V Ostevik, M.Sc. Daniel Aalto, Ph.D Jacqueline Cummine, Ph,D William E Hodgetts, Ph.D. (2019). Evaluation of Word Recognition and Word Recall with Bone Conduction Devices: Do Directional Microphones Free up Cognitive Resources?. *International Journal of Audiology* Jan 10, 2019.  
Revision Requested,  
Refereed?: Yes, Open Access?: No  
Contribution Percentage: 41-50
9. \*Julia Craig, Amberley V. Ostevik, Lindsey Westover, William Hodgetts, Jacqueline Cummine. (2019). To Go or Not to Go: Exploring brain activation during response inhibition reading tasks. *Spectrum*. (3): 1-17.  
Co-Author  
Published,  
Refereed?: Yes, Open Access?: Yes  
Contribution Percentage: 21-30
10. Hill-Feltham P, Johansson ML, Hodgetts WE, Ostevik A, McKinnon BJ, Monksfield P, Sockalingam R, Wright, T, Tysome JR. (2019). Hearing outcome measures for conductive and mixed hearing loss treatment: A systematic review. *International Journal of Audiology*.  
Co-Author  
Submitted,  
Refereed?: Yes, Open Access?: No  
Contribution Percentage: 21-30
11. Amberley V. Ostevik Lindsey Westover \*Haley Gynane \*Jordan Herst Jacqueline Cummine William E. Hodgetts. (2019). Comparison of Health Insurance Coverage for Hearing Aids and Other Services in Alberta. *Healthcare Policy*.  
Accepted,  
Refereed?: No, Open Access?: No  
Contribution Percentage: 41-50  
Description / Contribution Value: Accepted June 27, 2019



12. \*Westover, L. Faulkner, G. Flores-Mir, C. Hodgetts, W.E. Raboud, D. (2019). Non-Invasive Evaluation of Periodontal Ligament Stiffness During Orthodontic Tooth Movement. *Angle Orthodontist*. 89(2): 228-234.  
Co-Author  
Published,  
Refereed?: Yes, Open Access?: No  
Contribution Percentage: 21-30
13. Jacqueline Cummine, \*Angela Cullum, Daniel Aalto, \*Tyson Sereda, \*Cassidy Fleming, \*Alesha Reed, Amberley Ostevik, Caroline Jeffery & William E. Hodgetts. (2019). From Lollipops to Lidocaine: Changes in Somatosensory Feedback Modifies Silent Word Recognition Performance in Adults. *Cognition Revision Requested*, April 6, 2019.  
Revision Requested,  
Refereed?: Yes, Open Access?: No  
Contribution Percentage: 21-30
14. \*Westover, L., Faulkner, G., Hodgetts, W.E., & Raboud, D. (2018). Comparison of implant stability measurement devices for bone anchored hearing aid systems. *Journal of Prosthetic Dentistry*. 119(1): 178-184.  
<http://dx.doi.org/https://doi.org/10.1016/j.prosdent.2017.02.021>  
Co-Author  
Published,  
Refereed?: Yes, Open Access?: No  
Number of Contributors: 4  
Editors: Stephen F Rosenstiel, BDS, MSD Editor The Journal of Prosthetic Dentistry  
Contribution Percentage: 21-30  
Description of Contribution Role: PhD Student work.  
Description / Contribution Value: Comparison of the new ASIST method of measuring implant interface stiffness to two older commercially available technologies.  
Funding Sources: Alberta Innovates- Health Solutions
15. \*Lindsey Westover Gary Faulkner Carlos Flores-Mir William Hodgetts Don Raboud. (2018). Application of the Advanced System for Implant Stability Testing (ASIST) to Natural Teeth for Noninvasive Evaluation of the Tooth Root Interface. *Journal of Biomechanics*. 69: 129-137.  
Co-Author  
Published,  
Refereed?: Yes, Open Access?: No  
Contribution Percentage: 31-40
16. Hodgetts, W.E. Aalto, D. Ostevik, A. Cummine, J. (2018). Changing Hearing Performance and Sound Preference with Words and Expectations: Meaning Responses in Audiology. *Ear and Hearing*.  
First Listed Author  
Published,  
Refereed?: Yes, Open Access?: Yes  
Number of Contributors: 4  
Contribution Percentage: 51-60

17. \*Gabriela Constantinescu, \*Kristina Kuffel Ben King William Hodgetts, Jana Rieger. (2018). Usability testing of an mHealth device for swallowing therapy in head and neck cancer survivors. Health Informatics Journal. Co-Author  
Published, Oxford University Press, United Kingdom  
Refereed?: Yes, Open Access?: No  
Number of Contributors: 5  
Contribution Percentage: 31-40  
Description of Contribution Role: I am co-supervisor for the lead authors PhD and this is a part of that work.  
Description / Contribution Value: Accepted Jan 26, 2018. Five other articles have been published and one submitted for publication in the development of a mobile health device. These studies have contributed to decisions related to hardware development and app design. We feel that usability testing of this system is the next step in this line of work and an essential precursor to clinical trials. More importantly, we feel that this article highlights the importance of usability testing of mHealth innovations by the patient groups for which they are intended. Published April 4, 2018
18. Johansson ML Tysome JR Hill-Feltham P Hodgetts WE Ostevik A McKinnon BJ Monksfield P Sockalingam R Wright, T,. (2018). Physical outcome measures for conductive and mixed hearing loss treatment: A systematic review. Clinical Otolaryngology. Co-Author  
Published,  
Refereed?: Yes, Open Access?: No  
Contribution Percentage: 21-30  
Description of Contribution Role: This is the second paper produced by our AuroNet group.  
Description / Contribution Value: Accepted April 27, 2018
19. \*Lindsey Westover Gary Faulkner William Hodgetts Fraaz Kamal Edmond Lou Don Raboud. (2018). Longitudinal Evaluation of Bone Anchored Hearing Aid Implant Stability Using the Advanced System for Implant Stability Testing (ASIST). Otology and Neurotology. <http://dx.doi.org/10.1097/MAO.0000000000001815>  
Co-Author  
Published,  
Refereed?: Yes, Open Access?: No  
Contribution Percentage: 31-40  
Description / Contribution Value: Accepted March 9, 2018
20. Scollie, S., Hodgetts, W., & Pumford, J. (2018). DSL for bone anchored hearing devices: Prescriptive targets and verification solutions. Audiology Online. (22962)  
Published,  
Refereed?: No, Open Access?: Yes  
Contribution Percentage: 41-50
21. Jacqueline Cummine, Daniel Aalto, Amberley Ostevik, \*Kulpreet Cheema, William Hodgetts. (2018). "To name or not to name: That is the question": The role of response inhibition in reading. Journal of Psycholinguistic Research. <http://dx.doi.org/10.1007/s10936-018-9572-9>  
Last Author  
Published,  
Refereed?: Yes, Open Access?: No  
Number of Contributors: 5  
Contribution Percentage: 51-60  
Description / Contribution Value: Published on March 14th 2018

22. \*Gabriela Constantinescu Jana Rieger William Hodgetts. (2018). Mobile Health Design and Development in the Academic Setting. International Journal of Medical Informatics.  
Submitted,  
Refereed?: Yes, Open Access?: No  
Contribution Percentage: 31-40
23. Hodgetts, W.E. Scott, D.K. Maas, P. Westover, L. (2018). Development of a Novel Bone Conduction Verification Tool using a Surface Microphone: Validation with Percutaneous Bone Conduction Users. Ear and Hearing.  
First Listed Author  
Published,  
Refereed?: Yes, Open Access?: Yes  
Number of Contributors: 4  
Contribution Percentage: 71-80
- [24.](#) \*Constantinescu, G., \*Kuffel, K., Aalto, D., Hodgetts, B., Rieger, J. (2017). Evaluation of an automated swallow-detection algorithm using visual biofeedback in healthy adults and head and neck cancer survivors. Dysphagia.  
Last Author  
Published,  
Refereed?: Yes, Open Access?: Yes  
Contribution Percentage: 21-30  
Description of Contribution Role: PhD Co-supervisor we share co-last authorship.  
Description / Contribution Value: Accepted October 17, 2017 Published Nov 2, 2017
25. \*Allison R. Mackey, William E. Hodgetts, & Susan A. Small. (2017). Maturation of bone-conduction transcranial attenuation using a measure of sound pressure in the ear canal. International Journal of Audiology. 57(4): 283-290.  
<http://dx.doi.org/10.1080/14992027.2017.1410585>  
Co-Author  
Published, Taylor and Francis,  
Refereed?: Yes, Open Access?: No  
Number of Contributors: 3  
Contribution Percentage: 31-40  
Description / Contribution Value: Published April 4, 2018  
Funding Sources: Natural Sciences and Engineering Research Council of Canada (NSERC)
26. Hodgetts, W.E., & Scollie, S.D. (2017). DSL Prescriptive Targets for Bone Conduction Devices: Adaptation and Comparison to Clinical Fittings. International Journal of Audiology.  
<http://dx.doi.org/http://dx.doi.org/10.1080/14992027.2017.1302605>  
First Listed Author  
Published, Accepted Feb 24, 2017,  
Refereed?: Yes, Open Access?: No  
Number of Contributors: 2  
Editors: Ross J. Roeser  
Contribution Percentage: 51-60  
Description of Contribution Role: This paper represents years of collaborative work between the University of Alberta and Western University.  
Funding Sources: Western Economic Diversification Canada

- [27.](#) \*Gabriela Constantinescu, MSc-SLP, Jana Rieger, PhD, Kerry Mummery, PhD, William Hodgetts, PhD. (2017). Flow and Grit by Design: Exploring gamification in facilitating adherence to swallowing therapy for patients with head and neck cancer. American Journal of Speech-Language Pathology. Last Author  
Published,  
Refereed?: Yes, Open Access?: No  
Number of Contributors: 4  
Contribution Percentage: 31-40  
Description of Contribution Role: Helped to create the idea with the student Read and rewrote several drafts Corresponding Author.  
Description / Contribution Value: This work grew out of discussion between the lead author (a PhD student I co-supervise with Jana Rieger) and I about the challenges of uptake and adherence to swallowing exercises. In the this paper we try to connect well know notions of Grit and Flow and also explore the potential impact of the novel use of gamification to increase and monitor adherence. Published November 2, 2017
28. Hodgetts, W.E., Ostevik, A., Aalto, D. & Cummine, J. (2017). Don't Fade Into the Background: A randomized trial exploring the effects of message framing in audiology. Canadian Journal of Speech Language Pathology and Audiology.41(2): 175-202.  
First Listed Author  
Published,  
Refereed?: Yes, Open Access?: Yes  
Number of Contributors: 4  
Contribution Percentage: 51-60
29. \*Constantinescu, G., Loewen, I., King, B., Brodt., C., Hodgetts, W.E., Rieger, J. (2017). Designing a mobile health application for patients with dysphagia following head and neck cancer. JMIR mHealth and uHealth.4(1): 1-10.  
Published,  
Refereed?: Yes, Open Access?: Yes  
Contribution Percentage: 41-50  
Description of Contribution Role: First author is a PhD student that is co-supervised by Hodgetts and Rieger. We helped substantially with the design, ethics, writing and review of the paper  
Funding Sources: Alberta Innovates- Health Solutions - 201400350-2
30. \*Constantinescu, G., Hodgetts, W.E., Scott, D., \*Kuffel, K., King, B. Brodt, C. & Rieger, J. (2017). Electromyography and mechanomyography signals during swallowing in healthy adults and head and neck cancer survivors. Dysphagia. 32(1): 90-103.  
<http://dx.doi.org/10.1007/s00455-016-9742-6>  
Published,  
Refereed?: Yes, Open Access?: No  
Contribution Percentage: 31-40  
Description of Contribution Role: This is a PhD student project. I helped with the design and writing.  
Funding Sources: Alberta Innovates- Health Solutions
- [31.](#) Hodgetts, W.E., Scott, D. (2017). Did you know how loud balloons can be?. Hearing Review - August 28, 2017.  
First Listed Author  
Published,  
Refereed?: No, Open Access?: Yes  
Number of Contributors: 2  
Contribution Percentage: 71-80  
Description / Contribution Value: This was a reworked reprint of an article that was originally published in Canadian Audiologist. Because of how much interest it raised, Hearing Review wanted to release it their journal too.

32. Hopper, T., Slaughter, S., Hodgetts, W.E., Ostevik, A., & Ickert, C. (2016). Hearing loss and cognitive-communication test performance among long-term care residents with dementia: Effects of amplification. *Journal of Speech, Language, and Hearing Research*.  
[http://dx.doi.org/10.1044/2016\\_JSLHR-H-15-0135](http://dx.doi.org/10.1044/2016_JSLHR-H-15-0135)  
Co-Author  
Published,  
Refereed?: Yes, Open Access?: No  
Contribution Percentage: 21-30  
Description of Contribution Role: Helped with the design of the audiology components of the work. Helped write key section of the document.  
Description / Contribution Value: In this paper we were interested in whether provide residents of long term care facilities with amplification, changed their performance on any cognitive measures.
33. \*Mackey, A., Hodgetts, W.E., Scott, D. & Small, S.A. (2016). Maturation of mechanical impedance of the skin-covered skull: Implications for soft band bone-anchored hearing systems fitted in infants and young children. *Ear and Hearing*. 37(4): 210-223.  
Co-Author  
Published,  
Refereed?: Yes, Open Access?: No  
Number of Contributors: 4  
Contribution Percentage: 31-40  
Description of Contribution Role: This was a student thesis from UBC. Our lab developed the majority of the technical approaches and I contributed a great deal to the data analysis and final condensing of a large thesis into a manuscript form. Additionally, I handled the vast majority of the review questions and comments during the review process.  
Description / Contribution Value: In this article we explored maturational effects of of skull impedance in developing children. We hope that this work contributes to a growing understanding of how to more accurately fit bone conduction hearing aids to young children.
34. \*Westover, L., Faulkner, G., Hodgetts, W.E., & Raboud, D. (2016). Advanced System for Implant Stability Testing (ASIST). *Journal of Biomechanics*.  
Co-Author  
Published,  
Refereed?: Yes, Open Access?: No  
Number of Contributors: 4  
Contribution Percentage: 31-40  
Description of Contribution Role: PhD Student work.  
Description / Contribution Value: Overview of a new system that is designed to test the interface stiffness of implants in bone or teeth in the mouth.  
Funding Sources: Alberta Innovates- Health Solutions
35. Hodgetts, W.E. Scott, D.K. (2016). Did You Know How Loud Balloons Can Be?. *Canadian Audiologist*. 3(6)  
First Listed Author  
Published, Canadian Academy of Audiology,  
Refereed?: Yes, Open Access?: Yes  
Number of Contributors: 2  
Contribution Percentage: 61-70  
Description of Contribution Role: Designed experiment and wrote most of the article.  
Description / Contribution Value: We investigated the impulse intensity of children party balloons and found them to be as loud as a shot-gun or a 357 magnum. This investigation is put into a greater context about raising awareness of cumulative hearing damage from noise exposure.

36. \*Constantinescu, G. King, B., McMahon, M. Brodt, C., Hodgetts, W., Rieger, J. (2016). Designing for patients: Using a cultural probe in the development of a mobile health device and application for swallowing therapy in head and neck cancer patients. *University of Alberta Health Sciences Journal (UAHSJ)*. 12(1): 1-6.  
Co-Author  
Published,  
Refereed?: Yes, Open Access?: Yes  
Number of Contributors: 6  
Contribution Percentage: 21-30  
Description of Contribution Role: This is a shared PhD student and Jana Rieger and I are the co-supervisors.
37. J. R. Tysome · P. Hill-Feltham · W. E. Hodgetts · B. J. McKinnon · P. Monksfield · R. Sockalingham · M. L. Johansson · A. F. Snik. (2015). The Auditory Rehabilitation Outcomes Network: an international initiative to develop core sets of patient-centred outcome measures to assess interventions for hearing loss. *Clinical Otolaryngology*. 40(12): 512-515.  
Co-Author  
Published,  
Refereed?: Yes, Open Access?: No  
Number of Contributors: 8  
Contribution Percentage: 31-40  
Description of Contribution Role: I am central to bringing this group together and I helped with the writing and shaping of the document.  
Description / Contribution Value: This is the first in a series of papers that our group "Auronet" has made. We are proposing that we develop core sets of outcome measures that reflect patient needs and would serve as a toolset for more meaningful comparisons of interventions.  
Funding Sources: Oticon Foundation - Auronet
38. \*Logan, H., Wolfaardt, J., Seikaly, H., Hodgetts, W.E., & Boulanger, P. (2013). Evaluation of the Accuracy of Cone Beam Computerized Tomography (CBCT) Medical Imaging Technology in Head and Neck Reconstruction. *Journal of Otolaryngology - Head and Neck Surgery*. 42(1): 1-8.  
Co-Author  
Published,  
Refereed?: Yes, Open Access?: Yes  
Contribution Percentage: 21-30
39. \*Logan, H., Wolfaardt, J., Boulanger, P., Hodgetts, W.E., Seikaly, H. (2013). Exploratory benchtop study evaluating the use of surgical design and simulation in fibula free flap mandibular reconstruction. *Journal of Otolaryngology - Head and Neck Surgery*. 42(1): 42.  
Co-Author  
Published,  
Refereed?: Yes, Open Access?: Yes  
Contribution Percentage: 21-30
40. \*Logan, H., Wolfaardt, J., Boulanger, P., Hodgetts, W.E., Seikaly, H. (2013). Pilot Study: Evaluation of the use of the convergent interview technique in understanding the perception of surgical design and simulation. *Journal of Otolaryngology - Head and Neck Surgery*. 42(1): 40.  
Co-Author  
Published,  
Refereed?: Yes, Open Access?: Yes  
Contribution Percentage: 21-30

41. Ostevik AV, Caissie R, Verge J, Gulliver M, Hodgetts WE. (2013). Are open-fit hearing aids a possible alternative to bone-anchored hearing devices in patients with mild to severe hearing loss? A preliminary trial. *Audiology Research*. 3(2): 10-15.  
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Refereed?: Yes, Open Access?: No  
Contribution Percentage: 31-40
42. \*Brandner, N, Hodgetts, W.E., Ostevik, A., Rieger, J.M. (2012). Listening Levels of Teenage iPod Users: Does measurement approach matter?. *Audiology Research*. 2(6): 25-29.  
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Refereed?: Yes, Open Access?: Yes
43. \*Szudek, J., Ostevik, A.V., Dziegielewski, P., Robinson-Anagor, J., Gomaa, N., Hodgetts, B. & Ho, A. (2012). Can uHear™ me now? Validation of an iPod-based hearing loss screening test. *Journal of Otolaryngology - Head & Neck Surgery*. 41 Supplement(1): 78-84.  
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45. Hodgetts, W.E., Hagler, P., Hakansson, B.E.V., & Soli, S. (2011). Technology-Limited and Patient-Derived Versus Audibility-Derived Fittings in BAHA Users: An Efficacy Study. *Ear and Hearing*. 32(1): 31-39.  
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46. Hodgetts, W.E., Hakansson, B.E.V., Hagler, P., & Soli, S. (2010). A Comparison of Three Approaches to Verifying Aided Baha Output. *International Journal of Audiology*. 49(4): 286-95.  
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47. Hodgetts, W.E., \*Szarko, R.A., & Rieger, J.M. (2009). What is the Influence of Background Noise and Exercise on the Listening Levels of iPod Users?. *International Journal of Audiology*. 48: 825-832.  
First Listed Author  
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48. \*Dumper, J.D., Hodgetts, W.E., Liu, R., & Brandner, N. (2009). Indications for BAHA®: A Functional Outcomes Study. *Journal of Otolaryngology-Head & Neck Surgery*. 38(1): 96-105.  
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<http://dx.doi.org/10.2182/cjot.07.013>  
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51. Hodgetts, W.E. & Liu, R. (2007). Can Hockey Playoffs Harm Your Hearing?. *Canadian Medical Association Journal*. 175(12): 1541-2.  
<http://dx.doi.org/10.1503/cmaj.060789>  
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52. Hodgetts, W.E., Scollie, S.D. & Swain, R. (2006). Effects of applied contact force and volume control setting on output force levels of the BAHA® Softband. *International Journal of Audiology*. 45(5): 301-8.  
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Refereed?: Yes
53. Hodgetts, W.E., Hagler, P. & Thompson, S.L. (2005). Exploring the Use of Factor Analysis to Determine the Relevant Dimensions of Outcome for a Given Population in Rehabilitation Science: A Tutorial. *Journal of Speech-Language Pathology and Audiology*. 30(2): 132-141.  
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Refereed?: Yes
54. Hodgetts, W.E., & Wolfaardt, J. (2005). Bone Anchored Hearing Aids (BAHA): Technology, Candidacy and Outcomes. *Communique*. 19(2): 4-5.  
First Listed Author  
Published,  
Refereed?: No, Open Access?: Yes  
Number of Contributors: 2  
Contribution Percentage: 81-90
55. Snik, A.F.M. Mylanus, E.A.M., Cremers, C.W.R.J., Wolfaardt, J., Hodgetts, W.E., Somers, T., Proops, D.W., Tjellström, A., Wazen, J.J., & Niparko, J. (2005). Consensus statements on the BAHA system: Where do we stand at present?. *Annals of Otolaryngology, Rhinology, and Laryngology*. 114(12): 2-12.  
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56. Hodgetts, W.E. (2005). Directional Capabilities of the BAHA Divino: Preliminary Objective Results. *Bone Anchored Communications*. 2(2): 11-14.  
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Refereed?: No, Open Access?: Yes  
Number of Contributors: 1  
Contribution Percentage: 91-100



- [57.](#) Hodgetts, W.E., Chen, G., & Parsa, V. (2004). Advanced Measures of Bone Anchored Hearing Aids: Do They Correlate With Perceptual Judgments?. Proceedings of the Canadian Acoustical Association, Canadian Acoustics, 32(3), 74-75.32(3): 74-75.  
 First Listed Author  
 Published,  
 Refereed?: No, Open Access?: Yes  
 Number of Contributors: 3  
 Contribution Percentage: 81-90  
 Funding Sources: Canadian Acoustical Association Student Award
58. Jamieson, D.G., Kranjc, G., Yu, K. & Hodgetts, W.E. (2004). Speech Intelligibility of Young School-Aged Children in the Presence of Real-Life Classroom Noise. Journal of the American Academy of Audiology. 15(7): 508-17.  
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### Book Chapters

1. Hodgetts, W.E. (2018). Bone Conduction Hearing Solutions. Jason Galster. Audiology Treatment: 3rd Edition. 3: 293-301.  
 First Listed Author  
 Published, Thieme,  
 Refereed?: No  
 Contribution Percentage: 91-100
2. W.E. Hodgetts. (2017). Prescription and Verification Considerations for Bone Conduction Device Users. Anne Marie Tharpe Marlene Bagatto. Sound Foundation Through Early Amplification - 2016. : 1-11.  
 First Listed Author  
 Accepted, Phonak,  
 Refereed?: No  
 Number of Contributors: 1  
 Contribution Percentage: 91-100  
 Description / Contribution Value: This is a conference proceeding book chapter that emerged from a presentation given in Atlanta in 2016.
3. Hodgetts, W.E. (2016). Chapter 31: Other Hearing Devices: Bone Conduction. Anne Marie Tharpe. The Comprehensive Handbook of Pediatric Audiology (Edited by Anne Marie Tharpe).2: 1-15.  
 First Listed Author  
 Published, Plural,  
 Refereed?: No  
 Number of Contributors: 1  
 Contribution Percentage: 91-100  
 Description / Contribution Value: This was a total re-write as the field has changed tremendously in the last 6 years.
4. William Hodgetts. (2010). Chapter 39: Other Implantable Devices (Bone Anchored Hearing Aids). Richard Seewald, Anne Marie Tharpe. The Comprehensive Handbook of Pediatric Audiology. : 256-262.  
 First Listed Author  
 Published, Singular,  
 Refereed?: Yes  
 Contribution Percentage: 91-100

## Thesis/Dissertation

1. Contributions to a Better Understanding of Fitting Procedures for Baha. (2008). University of Alberta. Doctorate. Supervisor: Paul Hagler and Gary Faulkner

## Newspaper Articles

1. Co-Author. Bagatto, M Hodgetts, W.E. (2017). Hear What You May Be Missing. The National Post. May 30, 2017,  
Number of Contributors: 2  
Editors: Ryan Shephard  
Contribution Percentage: 41-50  
Description / Contribution Value: Co-authored with Canadian Academy of Audiology President Marlene Bagatto. This was also published online by media planet.

## Magazine Entries

1. First Listed Author. Hodgetts, W.E. Holden, J. (2015). Why Understanding How Hearing Works Can Help You Preserve It. Maclean's Magazine. (Online)  
Published, Canada  
Number of Contributors: 2  
Contribution Percentage: 51-60  
Description / Contribution Value: Co-wrote the article and published it for speech and hearing month which is in May each year.

## Conference Publications

1. Trelani Milburn, William Hodgetts, Carole Hiew, Elaine Ngan, Joyce Chan, Wun Chin Chan, Romy Pistotnik, Xiaoyu Wang, Wonseok Han, Amberley Ostevik, & Jacqueline Cummine. Message Framing in Early Literacy. Society for the Scientific Studies of Reading, Toronto, Canada,  
Conference Date: 2019/7  
Poster  
Co-Author  
Refereed?: Yes
2. Angela Cullum, William Hodgetts, Cassidy Fleming, Alesha Reed, Aadya Thapliyal, Amberley Ostevik, Daniel Aalto, Jacqueline Cummine. Somatosensory Feedback Modulates Silent Word Reading Performance in Children & Adults. Society for the Scientific Study of Reading, Toronto, Canada,  
Conference Date: 2019/7  
Poster
3. \*Noor Al-Zanoon, \*Angela Cullum, Jacqueline Cummine, Caroline Jeffery, Bill Hodgetts, Daniel Aalto. (2019). The role of somatosensory feedback in the production of the English vowel [i]. International Congress of Phonetic Sciences (ICPhS) 2019, Melbourne, Australia,  
Conference Date: 2019/8  
Poster  
Co-Author  
Refereed?: Yes, Invited?: No  
Number of Contributors: 6
4. Cory McKenzie, Amberley Ostevik, William Hodgetts, Jacqueline Cummine, and Daniel Aalto. (2019). Associations between musical sophistication and auditory discrimination. Undergraduate Research Conference - U of A, Edmonton, Canada,  
Conference Date: 2019/3  
Poster

5. St. Jean, C. Cummine, J. Hodgetts, W.E. Villarena, M. (2018). The effects of transcranial direct current stimulation (tDCS) on word-reading performance in healthy and impaired adult readers. Banff Annual Seminars in Cognitive Sciences (BASICS), Banff, Alberta, Canada (1). BASICS, Conference Date: 2018/5  
Poster  
Co-Author  
Published  
Refereed?: Yes, Invited?: No  
Contribution Percentage: 21-30
6. Cheema, K. Hodgetts, W.E. Cummine, J. (2017). Investigating the functional neural circuitry for spelling using graphical models. Society for Neurobiology of Language, Baltimore, Maryland, United States (1). SNL, Conference Date: 2017/11  
Poster  
Co-Author  
Published  
Refereed?: Yes, Invited?: No  
Number of Contributors: 3  
Contribution Percentage: 21-30
7. Gary Faulkner, Lindsey Westover, Bill Hodgetts, Frazz Kamal, Edmond Lou, Don Raboud. (2017). Clinical Evaluation of Bone Anchored Hearing Aid Implant Stability using the Advanced System for Implant Stability Testing (ASIST). Osseo - 6th International Symposium on Bone Conduction Hearing and Related Technologies, Nijmegen, Netherlands (1). Osseo, Conference Date: 2017/5  
Poster  
Co-Author  
Published  
Refereed?: Yes, Invited?: No  
Number of Contributors: 6  
Contribution Percentage: 21-30  
Description of Contribution Role: Supervisor and direct clinical responsibilities for the patient group. Additionally, I read and made substantive changes to the document.
8. Hodgetts, W.E. Morris, D.P. Ray, J. Hol, M.K.S. (2016). Which device - when and why? The controversial role of bone conduction hearing devices in the rehabilitation of unilateral sensorineural hearing loss. Chole 2016 - The 10th International Conference on Cholesteatoma and Ear Surgery, Edinburg, United Kingdom (10-15). Kugler Publications, Netherlands  
Conference Date: 2016/6  
Paper  
First Listed Author  
Accepted  
Refereed?: No, Invited?: Yes  
Number of Contributors: 4  
Editors: Matthew Yung  
Contribution Percentage: 31-40

9. G. Constantinescu, B. King, B. Hodgetts, J. Rieger. (2015). Determinants for adherence to home swallowing therapy in patients with head and neck cancer: Understanding patient preferences for visual biofeedback. The Games for Health Europe Conference, Utrecht, Netherlands (1). Games for Health, Conference Date: 2015/11  
Paper  
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Published  
Refereed?: Yes, Invited?: No  
Number of Contributors: 4  
Contribution Percentage: 21-30
10. L. Westover, W.E. Hodgetts, G. Faulkner, D. Raboud. (2015). Advanced System for Implant Stability Testing (ASIST). 5th International Symposium on Bone Conduction Implants and Related Technologies, Lake Louise, Canada (1). Osseo, Conference Date: 2015/5  
Paper  
Co-Author  
Published  
Refereed?: Yes, Invited?: No  
Number of Contributors: 4  
Contribution Percentage: 31-40
11. G. Faulkner, L. Westover, W.E. Hodgetts, D. Raboud. (2015). Comparison of ASIST and Osstell ISQ for BAHA Implant Stability. 5th International Symposium on Bone Conduction Implants and Related Technologies, Lake Louise, Canada (1). Osseo, Conference Date: 2015/5  
Paper  
Co-Author  
Published  
Refereed?: Yes, Invited?: No  
Number of Contributors: 4  
Contribution Percentage: 31-40
12. G. Constantinescu, D. Scott, K. Kuffel, B. King, B. Hodgetts, C. Brodt, J. Rieger. (2015). Electromyography and mechanomyography signals during swallowing in healthy adults and head and neck cancer survivors. Annual Otolaryngology Head and Neck Surgery Resident Research Day, London, Canada (1). Otolaryngology, Conference Date: 2015/5  
Paper  
Co-Author  
Published  
Refereed?: Yes, Invited?: No  
Number of Contributors: 7  
Contribution Percentage: 21-30
13. W.E. Hodgetts. (2014). Prescription and Verification of Bone Conduction Implants: Present and Future Considerations (Keynote presentation). International Hearing Aid Research Conference, Tahoe City, United States (1). ICHON, Conference Date: 2014/8  
Paper  
First Listed Author  
Published  
Refereed?: Yes, Invited?: Yes  
Contribution Percentage: 91-100

14. L. Steen, P. Boulanger, W.E. Hodgetts, J. Wolfarrdt, E. Wright, B. Zheng. (2014). Development of a practical simulator for training nasal endoscopy skills in otolaryngology residency programs. Advanced Digital Technologies Conference, Beijing, China (1). ADT, Conference Date: 2014/8  
Paper  
Co-Author  
Published  
Refereed?: Yes, Invited?: No  
Number of Contributors: 6  
Contribution Percentage: 21-30
15. Wetter, T., Scott, D., Lundgren, H., Ostevik, A. & Hodgetts, W.E. (2013). Sound Quality Differences Between Advanced Bone Anchored Hearing Devices. 4th Annual conference on Osseointegration and Bone Conduction Hearing, (1). Osseo,  
Paper  
Last Author  
Published  
Refereed?: Yes, Invited?: No  
Contribution Percentage: 91-100
16. Woeflin, F., Hakansson, B.E.V., Hodgetts, W.E., Lundren, H., & Scott, D. (2013). The Mechanical Point Impedance of the Skin- Penetrated Human Skull: A Comparative Study.4th Annual conference on Osseointegration and Bone Conduction Hearing, (1). Osseo,  
Paper  
Co-Author  
Published  
Refereed?: Yes, Invited?: No  
Contribution Percentage: 21-30
17. Small, S., Mackey, A., Hodgetts, W.E. (2013). Maturation of Skull Properties: Implications for Soft band Bone-Anchored Hearing Systems. 4th Annual conference on Osseointegration and Bone Conduction Hearing, (1). Osseo,  
Paper  
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Refereed?: Yes, Invited?: No  
Contribution Percentage: 21-30
18. Hodgetts, W.E., Ho, A., & Ostevik, A. (2013). The burden of care of percutaneous BAHA: Health economics analysis based on our 20 year journey. 4th Annual conference on Osseointegration and Bone Conduction Hearing, (1). Osseo,  
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First Listed Author  
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Refereed?: Yes, Invited?: No  
Contribution Percentage: 41-50
19. Westover, L., Raboud, D., Faulkner, G. & Hodgetts, W.E. (2013). Non-invasive Assessment of Bone-Anchored Hearing Aid Implant Stability Independent of Structural Components. 4th Annual conference on Osseointegration and Bone Conduction Hearing, (1). Osseo,  
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20. Hodgetts WE, Ostevik AV, Wong K, Ball A. (2011). Comparison of audiologic results obtained from patients with no hearing aid, a transcutaneous and a percutaneous bone anchored device. Canadian Academy of Audiology 2011 Conference & Exhibition, ,  
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21. Brandner N, Hodgetts WE, Ostevik AV, Rieger J. (2011). Listening levels of teenage iPod users: Does measurement approach matter?. Canadian Academy of Audiology 2011 Conference & Exhibition, ,  
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23. Yu, J., Hodgetts, W.E. and Lui, R. (2011). Comparison of hearing perception between patients with unilateral conductive hearing loss treated with ossicular chain reconstruction and bone-anchored hearing aid. Third International Bone Conduction Hearing-Craniofacial Osseointegration Symposium, ,  
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24. Slaughter S, Hopper T, Ostevik AV, Hodgetts WE. (2011). Hearing loss as a contributor to excess disability of long-term care residents with dementia: Issues in recruitment and data collection. Canadian Association on Gerontology 40th Annual Scientific & Educational Meeting, ,  
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25. Ostevik, A.V., Hodgetts, W.E., Ehnes, A. & Feist, M. (2011). Survey of common practices among bone-anchored hearing practitioners. Third International Bone Conduction Hearing-Craniofacial Osseointegration Symposium, ,  
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26. Hodgetts, W.E., Ho, A., Yu, J., & Ostevik, A. (2011). Exploring the Reliability of an Automated Audiometer in Comparison to Manual Audiometry on Patients who Require Complex Masking. Annual Covenant Health Research Day, ,  
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27. Hodgetts, W.E., Scollie, S.D, & Ostevik, A. (2011). Comparison of Prescriptive Procedures for Implantable Bone Anchored Hearing Devices. Third International Bone Conduction Hearing-Craniofacial Osseointegration Symposium, ,  
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Published, Invited?: No

28. Szarko, R.A., Hodgetts, W.E., & Rieger, J.M. (2008). The Effects of Ambient Noise and Physical Exertion on User-Preferred Listening Levels While Using a Personal MP3 Player. Canadian Academy of Audiology meeting, ,  
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29. Bernard, M., Hodgetts, W.E., & Wilkes, G.A. (2008). What is the Influence of Microphone Location on the Performance of BAHA Users?. Canadian Academy of Audiology meeting, ,  
Poster  
Co-Author  
Published, Invited?: No
30. Dumper, J., Hodgetts, W.E., Liu, R. & Brandner, N. (2008). Indications for BAHA®: A Functional Outcomes Study. Alberta Society of Otolaryngology, ,  
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Co-Author  
Published, Invited?: No
31. Hodgetts, W.E., Soli, S. & Hakansson, B.E.V. (2008). Patient-Derived vs. Audibility Derived Fittings in Baha Users: A Validation Study. International Hearing Aid Research Conference (ICHON), ,  
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Published, Invited?: No
32. Skjodt, N.M., Hodgetts, W.E. (2007). A new digital stethophone: bioacoustic analyses of breath sounds recorded from a simple mp3 player. European Respiratory Society Annual Congress, ,  
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Published, Invited?: No
33. Dumper, J., Hodgetts, W.E., Liu, R. & Brandner, N. (2007). Indications for Baha: Unilateral Conductive Hearing Loss vs. Unilateral Mixed Hearing Loss. First International Symposium of Bone Conduction Hearing and Osseointegration, ,  
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35. Hodgetts, W.E. & Hakansson, B. E. (2006). Two New Verification Approaches for BAHA. 9th Annual Biomaterials Club, ,  
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36. Liu, R., Hodgetts, W.E. & Ditoppa, J.D. (2006). Benefits of BAHA® for Users with Unilateral Deafness Compared with Users with Bilateral Conductive Hearing Loss. 9th Annual Biomaterials Club, ,  
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Published, Invited?: No

37. Hodgetts, W.E., Hakansson, B. E. V., & Soli, S. (2006). Two In-Situ Approaches to Assessing the Audibility of Amplified Speech for BAHA Users. International Hearing Aid Research Conference (ICHON), ,  
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38. Hodgetts, W.E., Seelaus, R., Kew, R. (2006). Acoustical Assessment of Auricular Protheses: Is There Anything to Gain?. joint meeting of the International Society of Maxillofacial Rehabilitation and the American Academy of Maxillofacial Prosthodontics, ,  
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39. Hodgetts, W.E. & Scollie, S.D. (2005). The BAHA® Softband: Effects of the Applied Contact Force and Volume Control Setting on Output Force Level. 7th European Federation of Audiological Societies (EFAS) meeting, ,  
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40. Grosvenor, A., Raboud, D., & Hodgetts, W.E. (2005). A Pilot Study to Determine the Dimensional Accuracy of Various Rapid Prototyping (RP) Technologies. 2nd International Conference on Advanced Digital Technology in Head and Neck Reconstruction, ,  
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Published, Invited?: No
41. Hodgetts, W.E. (2005). A Digital BAHA with a Directional Microphone: Preliminary Results. 2nd International Conference on Advanced Digital Technology in Head and Neck Reconstruction, ,  
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First Listed Author  
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42. Hodgetts, W.E. (2004). A Tale of Two Devices: Electromechanical Comparisons of the BAHA® Compact and Classic 300. International Osseointegration Summit, ,  
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Published, Invited?: No
43. Hodgetts, W.E., & Soli, S. (2004). A New Method for Evaluating the Audibility of Speech with the BAHA. International Hearing Aid Research Conference (ICHON), ,  
Poster  
First Listed Author  
Published, Invited?: No
44. Hodgetts, W.E. (2004). Advanced Measures of Bone Anchored Hearing Aids: Do They Correlate with Perceptual Judgments?. Canadian Acoustical Association, ,  
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First Listed Author  
Published, Invited?: No
45. Liu, R., Hodgetts, W.E., & DiToppa, J.C. (2004). Bone-Anchored Hearing Aids: Indications Old and New. Alberta Otolaryngology Annual General Meeting, ,  
Paper  
Co-Author  
Published, Invited?: No



46. Hodgetts, W.E. (2004). Advanced Measures of Bone Anchored Hearing Aids: Do They Correlate with Perceptual Judgments?. Canadian Academy of Audiology, ,  
Paper  
First Listed Author  
Published, Invited?: No
47. Hodgetts, W.E., Singh, G., Jennings, M.B., Dillon-Edgett, L., & Michaud, J. (2003). Demonstrating Benefit in Clinical Practice: Uncovering Patient Perspectives and Meeting Client Needs. Canadian Academy of Audiology, ,  
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Published, Invited?: No
48. Hodgetts, W.E. (2003). BAHA® as a Treatment Option for Profound Unilateral Sensorineural Hearing Loss: A Pilot Study. Canadian Academy of Audiology, ,  
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Published, Invited?: No
49. Hodgetts, W.E., & DiToppa, J.C. (2003). Assessing the Effectiveness of BAHA® as a Treatment Option for Profound Unilateral Sensorineural Hearing Loss: The COMPRU Experience.4th International Symposium on Electronic Implants in Otology & Conventional Hearing Aids, ,  
Paper  
First Listed Author  
Published, Invited?: No
50. Chasin, M. & Hodgetts, W.E. (2003). An Update on Bone Anchored Hearing Aids. Canadian Academy of Audiology, ,  
Paper  
Last Author  
Published, Invited?: No
51. Hodgetts, W.E., & Jamieson, D.G. (2002). Assessing the Effectiveness of a Software-Based Auditory-Verbal Therapy Tool for Hearing-Impaired Children. CLLRNet Annual General Meeting, ,  
Poster  
First Listed Author  
Published, Invited?: No
52. Scollie, SD, Seewald, RC, & Hodgetts, WE. (2001). Assessing over-amplification risk: Predicted safety limits vs. audiometric data-base analysis. American Auditory Society annual meeting, ,  
Paper  
Last Author  
Published, Invited?: No
53. Jamieson, D.G., Cheesman, M.F., Hodgetts, W.E., Taylor, B., Tremblay, L., & Freeman, A. (1999). Internet-based courses in Western's Audiology Program: one year later. Annual meeting of the Canadian Acoustical Association, ,  
Paper  
Co-Author  
Published, Invited?: No

## Musical Compositions

- 2013/2                    Author. Can't Hear Whispers - Ode to the Outer Hair Cells.  
 youtube, Duration: 3:47  
<https://www.youtube.com/watch?v=ElJrSBdRfMM>  
 Number of Contributors: 1  
 Contributors: Hodgetts, W.E.  
 Description / Contribution Value: This was an alternative teaching strategy to underscore the importance of protecting out hair cells from noise damage.
- 2013/2                    Author. Lament of the Inner Hair Cells (Alone Again, Naturally).  
 Youtube, Duration: 1:52  
[https://www.youtube.com/watch?v=M\\_2j7bwP9DA](https://www.youtube.com/watch?v=M_2j7bwP9DA)  
 Number of Contributors: 1  
 Description / Contribution Value: Another alternative teaching song that was meant to underscore the loss of outer hair cells and the impact it has on the inner hair cells.

## Intellectual Property

### Patents

1. Fitting and Verification Procedures for Direct Bone Conduction Hearing Devices.Sweden. 0702629-7.  
 2008/11/26.  
 Patent Status: Granted/Issued  
 Year Issued: 2009

### Licenses

1. Desired Sensation Level - Bone Conduction  
 Granted  
 Date Issued: 2016/10  
 Filing Date: 2016/09/01  
 I have been working on various aspects of verification and prescription for Bone conduction amplification.This has lead to a company (oticon medical) including the prescription in their fitting software so that all clinicians who fit their devices can use the DSL Bone Conduction prescription to program their hearing aids. In 2017 we llicensed the DSL-BC to Audioscan for use in their verification devices. In May 2019 we licensed DSL-BC to Med-EL, Another BC device manufacturer.