

CURRICULUM VITAE

PERSONAL DETAILS

Name: Gregory Alan O'Beirne, PhD

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EDUCATION

2000 – 2005: **Doctor of Philosophy with Distinction**
The University of Western Australia
PhD thesis, *Mathematical modelling and electrophysiological monitoring of the regulation of cochlear amplification.*

2000 – 2005: **Master of Clinical Audiology**
The University of Western Australia
Awarded 2003 Academic Prize in Audiology.

1993 – 1999: **Bachelor of Science with First Class Honours in Physiology**
The University of Western Australia
Awarded 1998 Linbrook Prize in Physiology.

PROFESSIONAL EXPERIENCE

2019 – present: **University of Canterbury**
Professor of Audiology

2014 – 2018: **University of Canterbury**
Associate Professor of Audiology

2008 – 2013: **University of Canterbury**
Senior Lecturer in Audiology

2005 – 2007: **University of Canterbury**
Lecturer in Audiology

2000 – 2005: **University of Western Australia**
Tutor / Lecturer (casual)

2003 – 2004: **iHear Australia**
Audiologist (part-time)

1998 – 1999: **University of Western Australia**
Research Assistant

PEER-REVIEWED JOURNAL ARTICLES

1. Babbage MJ, **O'Beirne GA**, Bergin MJ, Bird PA, 2017. Patterns of extended high-frequency hearing loss following stapes surgery. *Otology & Neurotology* 38(10):1405-1410.
2. Cook AM, Allsop AJ, **O'Beirne GA**, 2017. Putative auditory-evoked neurophonic measurements using a novel signal processing technique: a pilot case study. *Frontiers in Neuroscience* 11 472:9.
3. Hornibrook J, Bird PA, Flook E, **O'Beirne GA**, 2017. Electrocochleography for the diagnosis of Ménière's disease: The wrong stimulus. *Otology & Neurotology* 37:1677-1678.
4. McAuliffe MJ, Fletcher AR, Kerr SE, **O'Beirne GA**, Anderson T, 2017. Effect of dysarthria type, speaking condition and listener age on speech intelligibility. *American Journal of Speech-Language Pathology* 26:113-123.
5. Johnson SA, **O'Beirne GA**, Lin E, Gourley J, Hornibrook J, 2016. oVEMPs and cVEMPs in patients with 'clinically certain' Menière's disease. *Acta Oto-Laryngologica* 136(10):1029-1034.
6. Wise KJ, Bird PA, **O'Beirne GA**, 2015. Tinnitus healthcare in New Zealand. *New Zealand Medical Journal* 128(1423):20-23.
7. Bird PA, **O'Beirne GA**, 2015. Hearing loss in New Zealand — planning for the future. *New Zealand Medical Journal* 128(1419):6-8.
8. Rahmat S, **O'Beirne GA**, 2015. The development of a fast method for recording Schroeder-phase masking functions. *Hearing Research* 330:125-133.
9. Steffens L, Venter K, **O'Beirne GA**, Kelly-Campbell R, Gibbs D, Bird P, 2014. The current state of ototoxicity monitoring in New Zealand. *New Zealand Medical Journal* 127(1398):84-97.
10. Rickard NA, Heidtke UJ, **O'Beirne GA**, 2013. Assessment of auditory processing disorder in children using an adaptive filtered speech test. *International Journal of Audiology* 52(10):687-697.
11. Robb MP, Lynn WL, **O'Beirne GA**, 2013. An exploration of dichotic listening among adults who stutter. *Clinical Linguistics & Phonetics* 27(9):681-93.
12. Babbage MJ, Feldman MB, **O'Beirne GA**, MacFarlane MR, Bird PA, 2013. Patterns of hearing loss following retrosigmoid excision of unilateral vestibular schwannoma. *Journal of Neurological Surgery Part B: Skull Base* 74(3):166-175.
13. Borrie SA, McAuliffe MJ, Liss JM, **O'Beirne GA**, Anderson T, 2013. The role of linguistic and indexical information in improved recognition of dysarthric speech. *Journal of the Acoustical Society of America* 133(1):474-82.
14. Borrie SA, McAuliffe MJ, Liss JM, **O'Beirne GA**, Anderson T, 2012. A follow-up investigation into the mechanisms that underlie improved recognition of dysarthric speech. *Journal of the Acoustical Society of America* 132(2):EL102-EL108.
15. Borrie SA, McAuliffe MJ, Liss JM, Kirk C, **O'Beirne GA**, Anderson T, 2012. Familiarization conditions and the mechanisms that underlie improved recognition of dysarthric speech. *Language & Cognitive Processes* 27(7-8):1039-1055.
16. Zawawi S, Robb MP, **O'Beirne GA**, 2012. Measuring voluntary cough and its relationship to the perception of voice. *Asia Pacific Journal of Speech, Language and Hearing* 15(2):93-109.
17. **O'Beirne GA**, McGaffin AJ, Rickard NA, 2012. Development of an adaptive low-pass filtered speech test for the identification of auditory processing disorders. *International Journal of Pediatric Otorhinolaryngology* 76(6):777-782.
18. McAuliffe MJ, Wilding PJ, Rickard NA, **O'Beirne GA**, 2012. Effect of speaker age on speech recognition and perceived listening effort in older adults with hearing loss. *Journal of Speech, Language, and Hearing Research* 55(3):838-847.
19. Hornibrook J, Kalin C, Lin E, **O'Beirne GA**, Gourley J, 2012. Transtympanic Electrocochleography for the Diagnosis of Ménière's Disease. *International Journal of Otolaryngology* 2012:852714.
20. Kaipa R, Robb MP, **O'Beirne GA**, Allison RS, 2012. Recovery of speech following total glossectomy: An acoustic and perceptual appraisal. *International Journal of Speech-Language Pathology* 14(1):24-34.
21. Job A, Paucod J-C, **O'Beirne GA**, Delon-Martin C, 2011. Cortical representation of tympanic membrane movements due to pressure variation: An fMRI study. *Human Brain Mapping* 32(5):744-749.

22. Choo AL, Robb MP, Dalrymple-Alford JC, Huckabee M-L, **O'Beirne GA**, 2010. Different lip asymmetry in adults who stutter: Electromyographic evidence during speech and non-speech. *Folia Phoniatrica et Logopaedica* 62(3):143-147.
23. Dwyer CH, Robb MP, **O'Beirne GA**, Gilbert HR, 2009. The influence of speaking rate on nasality in the speech of hearing impaired individuals. *The Journal of Speech, Language, and Hearing Research* 52:1321-1333.
24. Robb MP, Sargent A, **O'Beirne GA**, 2009. Characteristics of disfluency clusters in adults who stutter. *Logopedics Phoniatrics Vocology* 24:1-7.
25. Doeltgen SH, Ridding MC, **O'Beirne GA**, Dalrymple-Alford J, Huckabee ML, 2009. Test-retest reliability of motor evoked potentials (MEPs) at the submental muscle group during volitional swallowing. *Journal of Neuroscience Methods* 178:134-137.
26. **O'Beirne GA**, Patuzzi RB, 2007. Mathematical model of outer hair cell regulation including ion transport and cell motility. *Hearing Research* 234:29-51.
27. Purdy SC, Agung KB, Hartley D, Patuzzi RB, **O'Beirne GA**, 2005. The post-auricular muscle response: an objective electrophysiological method for evaluating hearing sensitivity. *International Journal of Audiology* 44:625-630.
28. Agung KB, Purdy SC, Patuzzi RB, **O'Beirne GA**, Newall P, 2005. Rising-frequency chirps and earphones with an extended high frequency response enhance the post-auricular muscle response. *International Journal of Audiology* 44: 631-636.
29. **O'Beirne GA**, Patuzzi RB, 1999. Basic properties of the sound-evoked post-auricular muscle response (PAMR). *Hearing Research* 138:115-132.
30. Patuzzi RB, **O'Beirne GA**, 1999. Effects of eye rotation on the sound-evoked post-auricular muscle response (PAMR). *Hearing Research* 138:133-146.
31. Patuzzi RB, **O'Beirne GA**, 1999. A correlation method for detecting the sound-evoked post-auricular muscle response (PAMR). *Hearing Research* 138:147-162.
32. Patuzzi RB, **O'Beirne GA**, 1999. Boltzmann analysis of CM waveforms using virtual instrument software. *Hearing Research* 133:155-159.

THESES

1. **O'Beirne GA**, 2005. Mathematical modelling and electrophysiological monitoring of the regulation of cochlear amplification. PhD Thesis, University of Western Australia, Nedlands.
2. **O'Beirne GA**, 1998. The post-auricular muscle reflex (PAMR): its detection, analysis, and use as an objective hearing test. Honours Thesis, University of Western Australia, Nedlands.

OTHER PUBLICATIONS

1. Derrick D, **O'Beirne GA**, De Rybel T, Fiasson R, Hay J, 2016. Effects of speech airflow on 2AFC word identification in Mandarin and English. In *Proceedings of the 16th Speech Science and Technology Conference (SST2016)*, page 1.
2. Derrick D, **O'Beirne GA**, De Rybel T, Hay J, 2014. Aero-tactile integration in fricatives: Converting audio to air flow information for speech perception enhancement. In *Proceedings of the 15th Annual Conference of the International Speech Communication Association (INTERSPEECH 2014)*, pages 2580–2584.
3. Derrick D, De Rybel T, **O'Beirne GA**, Hay J, 2014. Listen with your skin: Aerotak speech perception enhancement system. In *Proceedings of the 15th Annual Conference of the International Speech Communication Association (INTERSPEECH 2014)*, pages 1484–1485.
4. Patuzzi RB, **O'Beirne GA**, 2008. Gain, nonlinearity and regulation in the mammalian cochlea. In: Dau T, Buchholz JM, Harte JM, Christiansen TU. (Eds.). *Auditory signal processing in hearing-impaired listeners. 1st International Symposium on Auditory and Audiological Research (ISAAR 2007)*. Centertryk A/S, Denmark, pp. 159-171. ISBN: 87-990013-1-4
5. Doeltgen S, Huckabee M, Dalrymple-Alford J, Ridding M, **O'Beirne GA**, 2008. Effects of event-related electrical stimulation on motor evoked potentials at the submental muscle group. *Isle of*

- Palms, SC, USA: 16th Annual Dysphagia Research Society Meeting, 5-8 Mar 2008. In *Dysphagia* 23(4) 436. <http://dx.doi.org/10.1007/s00455-008-9172-1>.
6. Feldman MB, **O'Beirne GA**, Bird PA, 2008. Delayed hearing loss following vestibular schwannoma surgery: Auditory function in the early postoperative period. *New Zealand Audiological Society Bulletin*, 18(2):7-20.
 7. **O'Beirne GA**, 2006. News from the Canterbury Programme. *New Zealand Audiological Society Bulletin*, 16(1):35-36.
 8. **O'Beirne GA**, Patuzzi RB, 2003. Mathematical modelling of the role of outer hair cells in cochlear homeostasis. In: Gummer AW (Ed.). *Biophysics of the Cochlea*. World Scientific, Singapore, pp. 434-435.
 9. Purdy SC, Agung K, Patuzzi RB, **O'Beirne GA**, 2002. The post auricular muscle response in adults and infants. *National Acoustic Laboratories Annual Report 2001/2002*. pp. 7-8.
 10. Agung K, Purdy SC, Patuzzi R, **O'Beirne GA**, 2002. Objective hearing assessment using the post auricular muscle response: Stimulus and insert earphone transducer effects. *Australian and New Zealand Journal of Audiology* 23:67
 11. **O'Beirne GA**, Patuzzi RB, 2002. Modelling the role of outer hair cells in cochlear regulation and tinnitus. *Proceedings of the VIIth International Tinnitus Seminar*. University of Western Australia, Crawley. pp. 62-67.
 12. Purdy SC, Agung K, Hartley D, Patuzzi RB, **O'Beirne GA**, 2001. Objective hearing screening in diagnosis using the post auricular muscle response (PAMR). *National Acoustic Laboratories Research & Development Annual Report 2000/2001*. pp. 6-7.

CONFERENCE PRESENTATIONS

Oral presentations:

1. **O'Beirne GA**, Cook AM, Allsop AJ, 2018. Auditory-evoked neurophonic responses – What they can and can't tell us about cochlear function. *New Zealand Audiological Society Conference*. Auckland, New Zealand, 5 July 2018.
2. Rahmat S, Amirullah NA, **O'Beirne GA**, 2016. Extended reliability measures for the fast method of Schroeder-phase masking. *Medical Research Symposium (MRS) and Pacific Partnership 2016 in Conjunction with Kuantan Research Day*. International Islamic University Malaysia, Kuantan, Malaysia, 4 August 2016.
3. Babbage MB, **O'Beirne GA**, Bird PA, 2016. Distinguishing Between Conductive and Sensorineural Hearing Loss Following Middle Ear Surgery. *10th International Conference on Cholesteotoma and Ear Surgery*. Edinburgh, UK, 5-8 June 2016.
4. **O'Beirne GA**, Trounson R, McClelland A, Stone J, Jamaluddin S, Kelly-Campbell R, Maclagan M, 2016. Development and optimisation of auditory-visual matrix sentence tests in New Zealand English and Malay. *New Zealand Audiological Society Conference*. Christchurch, New Zealand, 30 April 2016.
5. Babbage MB, **O'Beirne GA**, Bird PA, 2016. Distinguishing between conductive and sensorineural extended high frequency hearing loss following middle ear surgery. *17th International Symposium & Workshops on Inner Ear Medicine & Surgery*. Hotel Theresa in Zell im Zillertal, Austria. 12-19 March 2016.
6. Johnson SA, **O'Beirne GA**, Lin E, Gourley J, Hornibrook J, 2016. oVEMPs and cVEMPs in Patients with "clinically certain" Ménière's Disease. *17th International Symposium & Workshops on Inner Ear Medicine & Surgery*. Hotel Theresa in Zell im Zillertal, Austria. 12-19 March 2016.
7. McElhinney S, **O'Beirne GA**, Gourley J, Lin E, Hornibrook J, 2015. Ocular (o-VEMP) and Cervical (c-VEMP) VEMPs in Patients with "Clinically Certain" Ménière's Disease. *7th International Symposium on Ménière's Disease and Inner Ear Disorders*. Rome, Italy, 17-20 October 2015.
8. Jamaluddin S, **O'Beirne GA**, 2015. Development and Evaluation of the Auditory-Visual Matrix Sentence Test in Malay. *7th Biennial Asia Pacific Conference of Speech, Language and Hearing*. Guangzhou, China, 10 October 2015.

9. **O'Beirne GA**, Bird PA, 2015. Development of an intraoperative monitoring system for middle-ear, vestibular schwannoma, and cochlear implant surgery - Te Pihareinga. Celebration and Showcase of Hearing and Vestibular Research in New Zealand, Auckland, 11 September 2015.
10. **O'Beirne GA**, Trounson RH, McClelland AD, Jamaluddin S, Maclagan MA, 2015. Development of an auditory-visual matrix sentence test in New Zealand English. 12th European Federation of Audiological Societies Congress. Istanbul, Turkey, 30 May 2015.
11. Babbage M, **O'Beirne GA**, Bird P, Bergin M, Macassey E, 2015. Rates of extended-high-frequency hearing loss following middle-ear surgery. 12th European Federation of Audiological Societies Congress. Istanbul, Turkey, 30 May 2015.
12. Rahmat S, **O'Beirne GA**, 2015. The use of a fast method for recording Schroeder-phase masking functions to estimate cochlear phase curvature. 12th European Federation of Audiological Societies Congress. Istanbul, Turkey, 30 May 2015.
13. Rahmat S, **O'Beirne GA**, 2015. A fast method for the psychophysical estimation of nonlinear cochlear function using Schroeder-phase masking. 12th European Federation of Audiological Societies Congress. Istanbul, Turkey, 29 May 2015.
14. Rahmat S, **O'Beirne GA**, 2014. The use of a fast method of recording Schroeder-phase masking functions for measuring nonlinear cochlear function. Inner Ear Biology Workshop, Kyoto, Japan, 3 November 2014.
15. Derrick D, **O'Beirne GA**, De Rybel T, Hay J, 2014. Aero-tactile integration in fricatives: Converting audio to air flow information for speech perception enhancement. InterSpeech 2014, Singapore, 14 - 18 September 2014.
16. Babbage MB, **O'Beirne GA**, Bergin M, Macassey E, Bird P, 2014. Patterns of extended high-frequency hearing loss following stapedectomy. New Zealand Audiological Society Conference, Wellington, New Zealand, 4th July 2014.
17. Jayakody DMP, Looi V, Lin E, **O'Beirne GA**, Robb, M, 2014. Identifying prosody expressed in New Zealand English- A study on cochlear implant and hearing aid users. 13th International Conference on Cochlear Implants and Other Implantable Auditory Technologies. Munich, Germany, 21st June 2014.
18. Bird P, Babbage M, Bergin M, Macassey E, **O'Beirne GA**, 2014. Patterns of extended high-frequency hearing loss following stapedectomy. Otology Jubilee, Halle, Germany, 9 May 2014.
19. Rahmat S, **O'Beirne GA**, 2013. The development of a fast method of measuring Schroeder phase masking complexes. New Zealand Audiological Society Conference, Dunedin, New Zealand. 24th June 2013.
20. Giles C, Hornibrook J, Lin E, **O'Beirne GA**, Gourley J, 2013. Tone Burst Transtympanic Electrocochleography to Separate Vestibular Migraine from Meniere's Disease. 20th World Congress of the International Federation of Oto-Rhino-Laryngological Societies (IFOS), Seoul, Korea, 1st-5th June 2013.
21. Jayakody DMP, Looi V, Lin E, **O'Beirne GA**, Robb MP, 2013. Pitch-perception of children with cochlear implants vs normal hearing. 11th European Symposium on Paediatric Cochlear Implantation, Istanbul, Turkey, 23-26 May 2013.
22. Babbage MJ, **O'Beirne GA**, Bergin M, Macassey E, Bird PA, 2012. Patterns of extended high frequency hearing loss following middle ear surgery. 65th Annual Scientific Meeting of the New Zealand Society of Otolaryngology Head and Neck Surgery (NZSOHNS), Wellington, New Zealand, 31st October 2012.
23. **O'Beirne GA**, Rickard NA, Heidtke UJ, McGaffin AJ, Abu-Hijleh A, McAuliffe MJ, 2012. The UCAST-FW - an adaptive low-pass filtered speech test for the diagnosis of APD. Audiological Society of Australia Conference, Adelaide, Australia, 3rd July 2012.
24. **O'Beirne GA**, King SM, Murray CJ, Fromont R, King J, 2012. Development and evaluation of the New Zealand Hearing Screening Test. Audiological Society of Australia Conference, Adelaide, Australia, 3rd July 2012.
25. Trounson RH, **O'Beirne GA**, Maclagan MA, 2012. Development of the UC Auditory Visual Matrix Sentence Test. Audiological Society of Australia Conference, Adelaide, Australia, 2nd July 2012.

26. Babbage MJ, **O'Beirne GA**, Bergin M, Macassey E, Bird PA, 2012. Patterns of ultra high-frequency hearing loss following middle ear surgery. The 9th International Conference on Cholesteatoma and Ear Surgery, Nagasaki, Japan, 6th June 2012.
27. Trounson RH, **O'Beirne GA**, Maclagan MA, 2012. Development of the UC Auditory Visual Matrix Sentence Test. New Zealand Audiological Society Conference, Hamilton, New Zealand, 7th May 2012.
28. Bird PA, Babbage MJ, Feldman M, **O'Beirne GA**, MacFarlane M, 2012. Patterns of hearing loss following retrosigmoid excision of unilateral vestibular schwannoma. 6th International Congress of the World Federation of Skull Base Societies / 10th European Skull Base Society Congress, Brighton, UK, 16th-19th May 2012.
29. Borrie SA, McAuliffe MJ, Liss JM, **O'Beirne GA**, Anderson T, 2011. Perceptual learning of hypokinetic dysarthria: A follow-up investigation into the mechanisms that underlie passive and explicit learning of dysarthric speech. 8th Asia Pacific Conference on Speech, Language and Hearing, Christchurch, New Zealand, 12 January 2011.
30. Jayakody DMP, Looi V, Lin E, **O'Beirne GA**, 2011. Pitch perception skills of cochlear implant and hearing aid users compared with normal hearing children and adults. 8th Asia Pacific Conference on Speech, Language and Hearing, Christchurch, New Zealand, 13 January 2011.
31. Schäfer M, McAuliffe M, Liss J, Katseff SE, **O'Beirne GA**, Cai S, 2012. Responses to manipulations in auditory feedback: The effect of aging. Conference on Motor Speech, Santa Rosa, CA, USA, 29th Feb - 4th Mar 2012.
32. Borrie SA, McAuliffe MJ, Liss JM, **O'Beirne GA**, Anderson T, 2011. Perceptual learning of hypokinetic dysarthria: A follow-up investigation into the mechanisms that underlie passive and explicit learning of dysarthric speech. 8th Asia Pacific Conference on Speech, Language and Hearing, Christchurch, New Zealand, 12 January 2011.
33. King S, **O'Beirne GA**, Fromont R, Murray C, King J, 2010. The New Zealand Hearing Screening Test. New Zealand Institute of Language, Brain and Behaviour Workshop, Christchurch, New Zealand, 9 December 2011.
34. Heidtke UJ, Rickard NA, **O'Beirne GA**, 2010. Diagnosis of Auditory Processing Disorder in children using an adaptive filtered speech test. New Zealand Audiological Society Conference, Blenheim, New Zealand, 3 July 2010.
35. Borrie SA, McAuliffe MJ, Liss JM, Kirk C, **O'Beirne GA**, Anderson T, 2010. Learning to better understand distorted speech: An investigation into perceptual learning of dysarthria. NZSTA Conference: Practice worth spreading, Wellington, New Zealand, 23 April 2010.
36. McElhinney SA, **O'Beirne GA**, Lin E, Hornibrook J, 2010. oVEMPs and cVEMPs in patients with "clinically certain" Ménière's Disease. The 14th International Symposium and Workshops on Inner Ear Medicine and Surgery, Hotel Theresa in Zell im Zillertal, Austria, 8 March 2010.
37. Borrie SA, McAuliffe MJ, Liss JM, Kirk C, **O'Beirne GA**, Anderson T, 2010. A comparison of familiarisation modes on perceptual learning and speech intelligibility of hypokinetic dysarthria. Savannah, GA, United States: Fifteenth Biennial Conference on Motor Speech Disorders: Motor Speech Disorders and Speech Motor Control, 7 Mar 2010.
38. **O'Beirne GA**, Sincock BP, Starfinger C, 2009. Clinical Applicability of Adaptive Speech Testing: A comparison of the administration time, accuracy, efficiency and reliability of adaptive speech tests with conventional speech audiometry. 9th European Federation of Audiological Societies Congress. Tenerife, Spain, 23 June 2009.
39. Babbage MJ, Feldman MB, **O'Beirne GA**, Bird PA, MacFarlane MR, 2009. Early postoperative delayed hearing loss following vestibular schwannoma surgery: Behavioural and electrophysiological responses. 6th Australasian Auditory Neuroscience Workshop. Canberra, ACT, Australia, 31 January 2009.
40. **O'Beirne GA**, Patuzzi RB, 2008. Regulation of cochlear outer hair cells: Insights from mathematical modelling. 26th International Australasian Winter Conference on Brain Research, Queenstown, New Zealand, 23-27 August 2008.
41. McAuliffe MJ, Good PV, **O'Beirne GA**, LaPointe LL, 2008. Influence of auditory distraction upon intelligibility ratings in dysarthria. Conference on Motor Speech: Motor Speech Disorders & Speech Motor Control. Monterey, CA, USA, March 6-9, 2008.

42. Doeltgen S, Huckabee ML, Dalrymple-Alford J, Ridding M, **O'Beirne GA**, 2008. Effects of event-related electrical stimulation on motor evoked potentials at the submental muscle group. 16th Annual Dysphagia Research Society, Isle of Palms, USA, March 5-8, 2008.
43. **O'Beirne GA**, Patuzzi RB, 2006. Application of force to the cochlear wall: An experimental technique for altering cochlear mechanics. 30th Annual Conference of the New Zealand Audiological Society. Rotorua, New Zealand, 8 July 2006.
44. **O'Beirne GA**, Patuzzi RB, 2006. Application of force to the cochlear wall: Effect on auditory thresholds, outer hair cell transduction, and distortion-product otoacoustic emissions. 151st Meeting of the Acoustical Society of America. Providence, Rhode Island, USA, 6 June 2006.
45. **O'Beirne GA**, Patuzzi RB, 2006. Mathematical modelling of the regulation of cochlear amplification. 3rd Australasian Auditory Neuroscience Workshop. Sydney, New South Wales, 31 January 2006.
46. **O'Beirne GA**, Patuzzi RB, 2005. A mathematical model of the regulation of OHC basolateral permeability and transducer operating point. 42nd Inner Ear Biology Workshop. Tübingen, Germany, 18 September, 2005.
47. **O'Beirne GA**, Patuzzi RB, 2005. Real-time electrophysiological monitoring of cochlear regulation. Canterbury Conference on Communication Disorders. Christchurch, New Zealand, 8 April 2005.
48. Ferraro J, Bentler R, Kreisman B, **O'Beirne GA**, 2005. Training models for audiology and audiological research. Conference on Communication Disorders, Christchurch, Canterbury, April 8 2005.
49. **O'Beirne GA**, 2004 A possible future for complex audiological testing - the PAMR. Clients with Special Audiological Needs Workshop. Scarborough, Western Australia, 6 Aug 2004.
50. **O'Beirne GA**, 2004. Electrophysiological monitoring of outer hair cell homeostasis. 1st Australasian Auditory Neuroscience Workshop. Melbourne, Victoria, 31 January 2004.
51. **O'Beirne GA**, 2002. Modelling the role of outer hair cells in cochlear regulation and tinnitus. VIIIth International Tinnitus Seminar. Fremantle, Western Australia, 7 March 2002.

Poster presentations:

1. Derrick D, **O'Beirne GA**, De Rybel T, Hay J, Fiasson R, 2016. Effects of aero-tactile stimuli on continuous speech perception. In: Journal of the Acoustical Society of America 140:3225
2. Rahmat S, **O'Beirne GA**, 2014. A fast method for psychophysical estimation of nonlinear cochlear processing using Schroeder phase harmonic complexes. 37th MidWinter Meeting of the Association for Research in Otolaryngology. San Diego, California, USA, 22nd February 2014.
3. Jayakody DMP, Looi V, Lin E, Robb M, **O'Beirne GA**, 2012. Effect of Pitch-Perception Training on Pitch-Related Aspects of Speech and Music Perception of Cochlear Implant and Hearing Aid Users. 12th International Conference on Cochlear Implants and Other Implantable Auditory Technologies. Baltimore, Maryland USA, May 4th 2012.
4. Schäfer M, McAuliffe M, Liss J, Katseff SE, **O'Beirne GA**, Cai S, 2012. Responses to manipulations in auditory feedback: The effect of aging. Conference on Motor Speech, Santa Rosa, CA, USA, 29th Feb - 4th Mar 2012.
5. King S, **O'Beirne GA**, Fromont R, Rickard NA, McAuliffe MJ, 2011. Development and evaluation of a New Zealand Digit Triplet Test for auditory screening. 8th Asia Pacific Conference on Speech, Language and Hearing, Christchurch, New Zealand, 13 January 2011.
6. Abu-Hijleh A, **O'Beirne GA**, Rickard NA, McAuliffe MJ, 2011. Effects of high-frequency hearing loss on performance on the University of Canterbury Adaptive Speech Test (UCAST). 8th Asia Pacific Conference on Speech, Language and Hearing, Christchurch, New Zealand, 13 January 2011.
7. Venter K, **O'Beirne GA**, Bird PA, 2011. The current state of ototoxicity monitoring in New Zealand. 8th Asia Pacific Conference on Speech, Language and Hearing, Christchurch, New Zealand, 13 January 2011.
8. Schäfer MCM, McAuliffe MJ, Liss MJ, **O'Beirne GA**, Cai S, 2011. Responses of older individuals to manipulations in auditory feedback: Preliminary findings. 8th Asia Pacific Conference on Speech, Language and Hearing, Christchurch, New Zealand, 13th January 2011.

9. Broadmore S, McAuliffe MJ, Borrie SA, **O'Beirne GA**, 2011. Listener strategies in the perception of dysarthric speech. 8th Asia Pacific Conference on Speech, Language and Hearing, Christchurch, New Zealand, 12 January 2011.
10. Kalin CJ, Lin E, Hornibrook J, **O'Beirne GA**, 2010. Electrocochleography and subjective methods for the diagnosis of Ménière's Disease. American Speech-Language Hearing Association Conference, Philadelphia, PA, United States, 20 November 2010.
11. Hornibrook J, Gawankar S, Gourley J, **O'Beirne GA**, 2010. Unsuspected Ménière's Disease in Emergency Department Patients, The 6th International Symposium on Ménière's Disease and Inner Ear Disorders, Kyoto, Japan, 15 November 2010.
12. McElhinney SA, **O'Beirne GA**, Lin E, Hornibrook J, 2010. oVEMPs and cVEMPs in patients with "clinically certain" Ménière's Disease. The 6th International Symposium on Ménière's Disease and Inner Ear Disorders, Kyoto, Japan, 15 November 2010.
13. Kalin CJ, Hornibrook J, Lin E, **O'Beirne GA**, 2010. Diagnosis of Ménière's Disease with electrocochleographic and symptomological assessment. The 6th International Symposium on Ménière's Disease and Inner Ear Disorders, Kyoto, Japan, 15 November 2010.
14. Kalin CJ, Lin E, Hornibrook J, **O'Beirne GA**, 2010. An evaluation of electrocochleography as a diagnostic tool for Ménière's Disease. New Zealand Audiological Society Conference, Blenheim, New Zealand, 3 July 2010.
15. Borrie SA, McAuliffe MJ, Liss JM, Kirk C, **O'Beirne GA**, Anderson T, 2010. A comparison of familiarisation modes on perceptual learning and speech intelligibility of hypokinetic dysarthria. Fifteenth Biennial Conference on Motor Speech Disorders: Motor Speech Disorders and Speech Motor Control, Savannah, United States, 7 March 2010.
16. McAuliffe MJ, Schaefer M, **O'Beirne GA**, LaPointe LL, 2009. Effect of noise upon speech intelligibility in dysarthria. American-Speech-Language-Hearing Association (ASHA) Annual Convention 2009. New Orleans, LA, USA, 19-21 Nov 2009.
17. **O'Beirne GA**, McGaffin AJ, 2009. Development of a monosyllabic adaptive speech test for the identification of central auditory processing disorder. 9th European Federation of Audiological Societies Congress. Tenerife, Spain, 22nd June 2009.
18. **O'Beirne GA**, Patuzzi RB, 2008. *In vivo* effects of hyperosmotic perilymph perfusion on hair cell and neural potentials. 31st MidWinter Meeting of the Association for Research in Otolaryngology. Phoenix, Arizona, USA, 17th February 2008.
19. Looi V, Arnephy J, **O'Beirne GA**, 2007. Environmental sound perception of cochlear implant users. 6th Asia Pacific Symposium on Cochlear Implants & Related Sciences. Sydney, Australia. 30th October – 2nd November 2007.
20. **O'Beirne GA**, Patuzzi RB, 2007. *In vivo* effects of reduced-sodium perilymph perfusion on hair cell and neural potentials. 30th MidWinter Meeting of the Association for Research in Otolaryngology. Denver, Colorado, USA, 11th February 2007.
21. **O'Beirne GA**, Patuzzi RB, 2002. Mathematical modelling of the role of outer hair cells in cochlear homeostasis. Biophysics of the Cochlea: Molecules to Models. Titisee, Germany, 27th July - 1st August 2002.
22. Agung K, Purdy SC, Patuzzi R, **O'Beirne GA**, 2002. Objective hearing assessment using the post auricular muscle response: Stimulus and insert earphone transducer effects. Melbourne, Victoria, Australia: XXVI International Congress of Audiology, 17 - 22 March 2002.
23. **O'Beirne GA**, Patuzzi RB, 2001. The post-auricular muscle response (PAMR): Basic properties, measurement techniques, and use in hearing screening. IUPS Auditory Satellite Symposium. Auckland, New Zealand, 20th - 22nd August 2001.

INVITED PRESENTATIONS

1. **O'Beirne GA**, Yip F, 2016. An update on the University of Canterbury Master of Audiology programme. 40th Annual New Zealand Audiological Society Conference, Christchurch, 27th April 2016.
2. **O'Beirne GA**, Yip F, 2014. An update on the University of Canterbury Master of Audiology programme. 38th Annual New Zealand Audiological Society Conference, Te Papa, Wellington, New Zealand, 4th July 2014.
3. **O'Beirne GA**, Babbage MJ, Bird PA, 2010. Intraoperative hearing assessment during middle-ear surgery in humans. Medical Physics & Bioengineering Seminar, Christchurch Hospital, Christchurch, New Zealand, 19th October 2010.
4. **O'Beirne GA**, Babbage M, Bergin M, Bird PA, Patuzzi RB, 2010. Improvement of intraoperative hearing assessment and preservation of inner-ear function in humans. Clinical Meeting, Christchurch Hospital, Christchurch, New Zealand, 24th August 2010.
5. **O'Beirne GA**, 2008. Waveforms, Boltzmann functions, and tuning curves - What electrophysiological measures can tell us about auditory function. Brain Research Forum, Christchurch School of Medicine & Health Sciences, Christchurch, New Zealand, 1st December 2008.
6. **O'Beirne GA**, 2008. Update on Audiology at the University of Canterbury. 32nd Annual Conference of the New Zealand Audiological Society. Christchurch, 10th July 2008.
7. **O'Beirne GA**, Patuzzi RB, 2005. Amplification in the cochlea: Electrophysiological measurement and mathematical modelling. Brain Research Forum No.15, Christchurch School of Medicine & Health Sciences, Christchurch, New Zealand, 5th December, 2005.
8. **O'Beirne GA**, 2004. Real-time electrophysiological monitoring of cochlear regulation. Audiological Society of Australia State Meeting. Hyatt Regency Hotel, Perth, Western Australia, 5th November 2004.
9. **O'Beirne GA**, 2004. Real-time electrophysiological monitoring of cochlear regulation. University of Canterbury, Christchurch, New Zealand, 14th October 2004.

GRANTS AND SCHOLARSHIPS

1. **O'Beirne GA**, Bird PA, 2015. Intraoperative monitoring in middle-ear, vestibular schwannoma, and cochlear implant surgery. Oticon Foundation in New Zealand. \$319,500.
2. Derrick D, De Rybel T, Hay JB, **O'Beirne GA**, Lloyd S, 2014. Aero-tactile enhancement of speech perception - Smart Ideas Phase 2. Ministry of Business, Innovation and Employment (Science + Innovation Group). \$1,000,000.
3. Derrick D, Hay JB, **O'Beirne GA**, Lloyd S, 2012. Aero-tactile enhancement of speech perception - Smart Ideas Phase 1. Ministry of Business, Innovation and Employment (Science + Innovation Group). \$553,345.
4. McAuliffe MJ, Liss J, **O'Beirne GA**, Schäfer M, 2010. Sensorimotor adaptation to feedback perturbations in dysarthria. New Zealand Institute of Language, Brain & Behaviour: Small Project Grant. \$10,000
5. **O'Beirne GA**, Pearse J, 2010. Prevention of Noise Induced Hearing Loss. Subcontract from Laird I et al. Health Research Council Partnership Programme Grant. \$10,000
6. **O'Beirne GA**, Bird PA, Brown JA, 2009. Improvement of intraoperative hearing assessment and prevention of inner-ear damage in humans. Oticon Foundation in New Zealand. \$340,895.
7. **O'Beirne GA**, 2007. Oticon Foundation in New Zealand. Financial support to establish Vestibular Disorders Clinic at the University of Canterbury. \$18,000.
8. **O'Beirne GA**, 2000 – 2003. Australian Postgraduate Award. Conducting PhD research into cochlear regulation.
9. **O'Beirne GA**, Jan 1998 - Feb 1998. Telstra Vacation Scholarship to conduct research into the development of a low-probe-level tympanometer.

STUDENT SUPERVISION

Primary supervisor:

1. Salter G, *in progress*. Estimation of the air-bone gap using interleaved air-conduction and bone-conduction ABR. MAud thesis.
2. Yau J, *in progress*. Normative data for the University of Canterbury Auditory Processing Speech Test – Filtered Word (UCAST-FW) of APD in children. MAud thesis.
3. Lay M, *in progress*. Sentence equivalence and normative data for the University of Canterbury Paediatric Auditory-Visual Matrix Sentence Test. MAud thesis.
4. Budathoki D, *in progress*. Duration thresholds for identifying different sound types. MAud thesis.
5. Howey M, *in progress*. Changes in extended high-frequency hearing impairment following middle-ear surgery. MAud thesis.
6. Gibbins J, 2018. The development of a normalization technique for the University of Canterbury Adaptive Speech Test- Filtered Words (UCAST-FW). MAud thesis.
7. Jenkins-Foreman P, 2018. Development of a paediatric version of the University of Canterbury Auditory-Visual Matrix Sentence Test. MAud thesis.
8. Ripberger A, 2018. Further evaluation of the University of Canterbury Auditory-Visual Matrix Sentence Test. MAud thesis.
9. Gordon M, 2017. Aerotactile enhancement of speech perception among hearing-impaired listeners. MAud thesis.
10. Osborne JR, 2017. oVEMPs and cVEMPs in patients with vestibular migraine and Meniere's disease excluded. MAud thesis.
11. Alsop A, 2016. Electrophysiological monitoring of low frequency auditory thresholds in humans using the auditory nerve overlapped waveform. MAud thesis.
12. Andre E, 2016. Is auditory-visual integration ability a factor in hearing aid outcomes? MAud thesis.
13. Stone J, 2016. Evaluation of the University of Canterbury Auditory-Visual Matrix Sentence Test. MAud thesis.
14. Jamaluddin S, 2016. Development and evaluation of the digit triplet and auditory-visual matrix sentence tests in Malay. PhD thesis.
15. Babbage MJ, 2015. Investigations into the effects of middle ear surgery on inner ear function. PhD thesis.
16. McClelland A, 2015. Refinement and Normalisation of the University of Canterbury Auditory-Visual Matrix Sentence Test. MAud thesis.
17. Apthorp H, 2015. An Investigation into the Site of Iatrogenic Auditory Impairment in Vestibular Schwannoma Surgery: A Pilot Study. MAud thesis.
18. Rahmat S, 2015. Development of a fast method for the psychophysical estimation of nonlinear cochlear function using Schroeder-phase masking. PhD thesis.
19. Gray S, 2014. The role of hearing sensitivity above 8 kHz in auditory localization. MAud thesis.
20. Bowden A, 2013. Development, Normalisation and Verification of the New Zealand Hearing Screening Test for Māori and New Zealand English. MAud thesis.
21. Murray CJ, 2012. Development of the Māori Version of the New Zealand Hearing Screening Test. MAud thesis.
22. Murray SL, 2012. Development of a New Zealand four-alternative forced-choice word list. MAud thesis.
23. Trounson RH, 2012. Development of a New Zealand Matrix Sentence Test. MAud thesis.
24. Abu-Hijleh A, 2011. Effects of high-frequency hearing loss on performance in the University of Canterbury Adaptive Speech Test (UCAST). MAud thesis.
25. King SM, 2011. Development of a New Zealand version of the Digit Triplet Test (DTT). MAud thesis.
26. Venter K, 2011. Cisplatin ototoxicity: the current state of ototoxicity monitoring in New Zealand. MAud thesis.
27. Alchin KF, 2010. The effect of intratympanic dexamethasone on auditory thresholds in cisplatin ototoxicity. MAud thesis.

28. Babbage MJ, 2009. Early postoperative delayed hearing loss: Patterns of behavioural and electrophysiological auditory responses following vestibular schwannoma surgery. MAud thesis.
29. McElhinney SA, 2009. Vestibular-evoked myogenic potentials in the diagnosis of Ménière's Disease. MAud thesis.
30. Walker, JK, 2008. The maturation of cortical auditory evoked potentials in children with normal hearing and hearing impairment. MAud thesis.
31. Sincock BP, 2008. Clinical applicability of adaptive speech testing: a comparison of the time efficiency, accuracy and reliability of adaptive speech tests with conventional speech audiometry. MAud thesis.
32. Feldman MB, 2008. Early postoperative hearing loss following vestibular Schwannoma surgery: behavioural and electrophysiological responses. MAud thesis.
33. McGaffin AJ, 2007. Use of an adaptive filtered-speech test in the diagnosis of central auditory processing disorder. MAud thesis.

Co-supervisor or associate supervisor:

1. Compton S, *in progress*. Performance Volume – Immersion without damage. PhD thesis.
2. Moginie A, *in progress*. Changes to the teaching of clinical masking for audiology students, including a new software-based teaching tool, "maskME". MAud thesis.
3. Scott BW, 2015. Field Performance of Hearing Protection. PhD thesis.
4. Smart I, 2015. Evaluation of the non-linear properties of two computational models of the peripheral auditory system. MAud thesis.
5. Peddie R, 2014. Probe-signal investigation of an attentional filter for fundamental frequency. MAud thesis.
6. Schäfer MCM, 2014. Speech perception skills in people with dysarthria and their relevance for treatment outcome measures and choice of treatment. PhD thesis.
7. Harris P, 2012. Effect of speaker age on speech recognition and listener effort in older adults. MAud thesis.
8. Hagar B, 2012. A Preliminary Examination of Aging and Sex on Dichotic Listening Performance. MAud thesis.
9. Spencer GA, 2011. Objective measurement on listener effort: Effects of background noise and speaker age. MAud thesis.
10. Broadmore S, 2011. Listener strategies in the perception of dysarthric speech. MSLT thesis.
11. Heidtke UJ, 2010. Diagnosis of Auditory Processing Disorder in Children using an Adaptive Filtered Speech Test. MAud thesis.
12. Wilding P, 2010. Speech Understanding Abilities of Older Adults with Sensorineural Hearing Loss. MAud thesis.
13. Kalin CJ, 2010. An Evaluation of Electrocochleography as a Diagnostic Tool for Ménière's Disease. MAud thesis.
14. Lynn WL, 2010. Dichotic listening among adults who stutter. MAud thesis.
15. Zawawi S, 2009. Measuring voluntary cough and its relationship to perceptual voice production. MSLT thesis.
16. Sargent A, 2007. Characteristics of disfluency clusters in adults who stutter. MSLT thesis.
17. Allen K, 2007. Telephone use and performance in cochlear implant candidates. MAud thesis.
18. Dwyer CH, 2007. The effect of increasing speaking rate on acoustic and perceptual measures of nasality in hearing impaired speakers. MAud thesis.
19. Gawankar S, 2007. Effects of timely otolaryngological/audiological intervention on patients with acute vertigo due to peripheral vestibular disorders. MAud thesis.
20. Cook K, 2007. The Effects of Auditory Distraction on Discourse Retell Tasks in Traumatic Brain Injury (TBI). MSLT thesis.

PROFESSIONAL MEMBERSHIPS

- Association for Research in Otolaryngology
- Audiological Society of Australia
- Health Research Society of Canterbury
- New Zealand Audiological Society (elected Honorary Member, March 2016)
- The New Zealand Society for Balance, Dizziness and Vertigo

PROFESSIONAL SERVICE

- Deputy Head of Department, Communication Disorders, Uni of Canterbury, 2013 – present
- Audiology Programme Director, Uni of Canterbury, 2014 - 2017
- Coordinator of Postgraduate Audiology Programme, Uni of Canterbury, 2005 - 2010
- Member, Management Committee, Eisdell Moore Centre for Hearing and Balance Research, Uni of Auckland, 2016 – present
- Member, Departmental Learning and Teaching Committee, Uni of Canterbury, 2016 – present
- Member, College of Science Executive, Uni of Canterbury, 2015 – present
- College of Science Representative, Academic Board, Uni of Canterbury, 2013 - present
- Member, Departmental Advisory Committee, Uni of Canterbury, 2011 - present
- Member, Education Liaison Committee, New Zealand Audiological Society, 2005 - present
- Executive member, Health Research Society of Canterbury, 2011 – 2017
- Treasurer, Health Research Society of Canterbury, 2008 – 2010, 2013.
- Member, Departmental Website Committee, Uni of Canterbury, 2011 – 2016
- Member, College of Science Research Committee, Uni of Canterbury, 2012 - 2016
- Chair, Departmental Research Committee, Uni of Canterbury, 2013 – 2016
- Member, Departmental Research Committee, Uni of Canterbury, 2007 - 2016
- Member, Central Equity & Diversity Committee, Uni of Canterbury, 2010 - 2014
- Chair, Master of Audiology Admissions Committee, Uni of Canterbury, 2005 - 2010
- Member, Master of Audiology Admissions Committee, Uni of Canterbury, 2011 - present
- Member, College of Science Equity & Diversity Committee, Uni of Canterbury, 2007-2009
- External Examiner, University of Western Australia MClinAudiol programme (August 2010) and University of Auckland MAud programme (November 2008)
- Webmaster for The New Zealand Society for Balance, Dizziness and Vertigo (2016 – present), the Health Research Society of Canterbury (2008 – present), Communication Disorders (2007 – 2017)

Editorial/review/referee roles:

- Editorial Board Member (Audiology), The SAGE Encyclopedia of Human Communication Sciences and Disorders, 2016 – present
- Chair of PhD Oral Examinations for Kerstin Erfmann (2018), Nurlin Ali Hanafiah (2016), Sarah Perry (2016), Daniel Bürkle (2015) and Dona Jayakody (2012).
- Doctor of Philosophy thesis examiner for Shelly Ching-Yu Lin (University of Auckland, 2017) and Mohammad Ayat (Victoria University of Wellington, 2014)
- Grant referee for the Australian National Health and Medical Research Council (2016, 2018), Neurological Foundation (2014, 2015), Health Research Council of New Zealand, 2006, 2010
- Master of Audiology thesis examiner for University of Canterbury (30 theses) and University of Auckland (9 theses).
- Doctor of Philosophy thesis examiner (Mohammad Ayat), Victoria University of Wellington, 2014
- External member of review panel, Course Review of the Master of Audiology, Flinders University, Adelaide, September 24-25, 2014
- Member, Editorial Board of Speech, Language and Hearing Journal, 2011 – present
- Manuscript reviewer for Hearing Research, PLOS One, International Journal of Audiology, Ear and Hearing, International Journal of Paediatric Otolaryngology, New Zealand Medical Journal, International Journal of Speech Language Pathology, Speech, Language and Hearing Journal, Neurology, Psychiatry and Brain Research, Communicative Disorders Review, Physiology & Behavior, Japan Society of Mechanical Engineers Technical Journal.