

PHILLIP EVAN GANDER

Curriculum Vitae

11 January, 2021

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Department of Neurosurgery
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EDUCATION

- 2009 **PhD** – Psychology, Neuroscience and Behaviour
McMaster University
Dissertation: Attention and Neural Plasticity in Human Auditory Cortex
Supervisor: Prof LE Roberts
- 2002 **BA (Hon)** – Major Cognitive Science, Major Psychology
Simon Fraser University
Thesis: Electrophysiological Evidence for Selective Target Processing in Visual Search
Supervisor: Prof JJ McDonald

ACADEMIC POSITIONS

- 2020-present **Associate Research Scientist**, Human Brain Research Lab, University of Iowa
- 2016-2020 **Assistant Research Scientist**, Human Brain Research Lab, University of Iowa
- 2012-2016 **Post-doctoral Research Scholar**, Human Brain Research Lab, University of Iowa
- 2009-2012 **Post-doctoral Research Fellow**, National Biomedical Research Unit in Hearing, University of Nottingham

PUBLICATIONS (36)

REFEREED JOURNAL ARTICLES

- Kumar S, **Gander PE**, Berger JI, Billig AJ, Nourski KV, Oya H, Kawasaki H, Howard MA 3rd, Griffiths TD (2020) Oscillatory correlates of auditory working memory examined with human electrocorticography. *Neuropsychologia*, 150:107691.
- Kim S, Schwalje AT, Liu AS, **Gander PE**, McMurray B, Griffiths TD, Choi I (2020) Pre- and post-target cortical processes predict speech-in-noise performance. *Neuroimage*, 228:117699.
- Gander PE**, Kumar S, Sedley W, Nourski KV, Oya H, Kovach CK, Kawasaki H, Kikuchi Y, Patterson RD, Howard III MA, Griffiths TD (2019) Direct electrophysiological mapping of human pitch-related processing in auditory cortex. *Neuroimage*, 202:116076.
- Sedley W, Alter K, **Gander PE**, Berger JI, Griffiths TD (2019) Aberrant sensory predictions as a basis and biomarker for tinnitus. *J Neurosci.* 39:10096-10103.
- Kikuchi Y, Kumar S, Baumann S, Overath T, **Gander PE**, Griffiths TD, Petkov CI (2019) The distribution and nature of responses to broadband sounds associated with pitch in the macaque auditory cortex. *Cortex*, 120:340-352.
- Billig AJ, Herrmann B, Rhone AE, **Gander PE**, Nourski KV, Snoad BF, Kovach CK, Kawasaki H, Howard III MA, Johnsrude IS (2019) A sound-sensitive source of alpha oscillations in human non-primary auditory cortex. *J Neurosci.* 39:8679-8689.
- Tyler RS, Owen RL, Bridges J, **Gander PE**, Perreau A, Mancini PC (2018) Tinnitus suppression in cochlear implant patients using a sound therapy app. *Am J Audiol.* 27:316-323.
- Nagahama Y, Schmitt AJ, Dlouhy BJ, Vesole AS, **Gander PE**, Kovach CK, Nakagawa D, Granner M, Howard III MA, Kawasaki H (2018) Utility and safety of depth electrodes within supratemporal plane for intracranial EEG. *J Neurosurgery.* 1:1-9.
- Husain FT, **Gander PE**, Jensen JN, Shen S (2018) Expectations for tinnitus treatment and outcomes: A survey study of audiologists and patients. *J Am Acad Audiol.*, 29:313-336.
- Oya H, **Gander PE**, Adolphs R, Petkov CI, Nourski KV, Kawasaki H, Howard III MA, Griffiths TD (2018) Neural phase-locking predicts BOLD response in the human auditory cortex. *Neuroimage*, 169:286-301.
- Nagahama Y, Kovach CK, Ciliberto M, Joshi C, Rhone AE, Vesole A, **Gander PE**, Nourski KV, Oya H, Howard III MA, Kawasaki H, Dlouhy BJ (2018) Localization of musicogenic epilepsy to Heschl's gyrus and superior temporal plane: case report. *J Neurosurgery*, 129:157-164.
- Kikuchi Y, Attaheri A, Wilson B, Rhone AE, Nourski KV, **Gander PE**, Kovach CK, Kawasaki H, Griffiths TD, Howard III MA, Petkov CI (2017) Sequence learning modulates neural responses and oscillatory coupling in human and monkey auditory cortex. *PLoS Biol.*, 15:e2000219.
- Davies J, **Gander PE**, Hall DA (2017) Does chronic tinnitus alter the emotional response function of the amygdala?: A sound-evoked fMRI study. *Front Aging Neurosci.*, 9:31.
- Kumar S, Tansley-Hancock O, Sedley W, Winston JS, Callaghan MF, Allen M, Cope TE, **Gander PE**, Bamiou DE, Griffiths TD (2017) The brain basis for misophonia. *Current Biology*, 27:527-533.
- Sedley W, Friston K, **Gander PE**, Kumar S, Griffiths TD (2016) An integrative tinnitus model based on sensory precision. *Trends Neurosci.*, 39:799-812.
- Kumar S, Joseph S, **Gander PE**, Barascud N, Halpern AR, Griffiths TD (2016) A brain system for auditory working memory. *J Neurosci*, 36:4492-4505.

- Sedley W, **Gander PE**, Kumar S, Kovach CK, Oya H, Kawasaki H, Howard III MA, Griffiths TD (2016) Neural signatures of perceptual inference. *eLife*, 5:e11476.
- Kovach CK, **Gander PE** (2016). The demodulated band transform. *J Neurosci Methods* 261:135-154.
- Roberts LE, Bosnyak DJ, Bruce IC, **Gander PE**, Paul BT (2015) Evidence for differential modulation of primary and nonprimary auditory cortex by forward masking in tinnitus. *Hearing Research* 327:9-27.
- Sedley W, **Gander PE***, Kumar S, Oya H, Kovach CK, Nourski KV, Kawasaki H, Howard III MA, Griffiths TD (2015) Intracranial mapping of a cortical tinnitus system using residual inhibition. *Current Biology*, 25:1208-1214. *** Joint first authorship.**
- Hoare DJ, Edmondson-Jones M, **Gander PE**, Hall DA (2014) Agreement and reliability of tinnitus loudness matching and pitch likeness rating. *PLoS One* 9:e114553.
- Davies J, **Gander PE**, Andrews M, Hall DA. (2014) Auditory network connectivity in tinnitus patients: a resting-state fMRI study. *International Journal of Audiology* 53:192-198.
- Hoare DJ, **Gander PE**, Collins L, Smith S, Hall DA (2012) Management of tinnitus in English NHS audiology departments: an evaluation of current practice. *Journal of Evaluation in Clinical Practice* 18:326-334.
- Gander PE**, Hoare DJ, Collins L, Smith S, Hall DA (2011) Tinnitus referral pathways within the NHS: a survey of their perceived effectiveness among audiology staff. *BMC: Health Services Research* 11:162.
- El-Shunnar SK, Hoare DJ, Smith S, **Gander PE**, Kang S, Fackrell K, Hall DA (2011) Primary care for tinnitus: practice and opinion among GPs in England. *Journal of Evaluation in Clinical Practice* 17:684-692.
- Gander PE**, Bosnyak DJ, Roberts LE (2010) Evidence for modality-specific but not frequency-specific modulation of human primary auditory cortex by attention. *Hearing Research* 268:213-226.
- Gander PE**, Bosnyak DJ, Roberts LE (2010) Acoustic experience but not attention modifies neural population phase expressed in human primary auditory cortex. *Hearing Research* 269:81-94.

REPOSITORY ARTICLES

- Kumar S, **Gander PE**, Berger JI, Billig AJ, Kovach CK, Nourski KV, Oya H, Kawasaki H, Howard III MA, Griffiths TD (in prep) Oscillatory correlates of auditory working memory examined with human electrocorticography. *bioRxiv* doi: <https://doi.org/10.1101/2020.06.19.161901>
- Kim S, Schwalje A, Liu A, **Gander PE**, McMurray B, Griffiths TD, Choi I (2019) External and internal signal-to-noise ratios alter timing and location of cortical activities during speech-in-noise perception. *bioRxiv* doi: <https://doi.org/10.1101/817460>.
- Billig AJ, Herrmann B, Rhone AE, **Gander PE**, Nourski KV, Snoad BF, Kovach CK, Kawasaki H, Howard III MA, Johnsrude IS (2019) A sound-sensitive source of alpha oscillations in human non-primary auditory cortex. *bioRxiv* doi: <https://doi.org/10.1101/590323>.

BOOK CHAPTERS

- Irwin A, **Gander PE**, Hall DA (2013) Chapter 10 Listening to emotion: Auditory processing and the amygdala (pp 255-276). In: *Insights into the amygdala: structure, functions and implications for disorders*. Nova Science Publishers: Hauppauge NY.

CONFERENCE PROCEEDINGS

Gander PE, Bosnyak DJ, Wolek R, Roberts LE (2007) Modulation of the 40-Hz auditory steady state response by attention during acoustic training. *International Congress Series* 1300:37-40.

Bosnyak DJ, **Gander PE**, Roberts LE (2007) Does auditory discrimination training modify representations in both primary and secondary auditory cortex? *International Congress Series* 1300:25-28.

Bosnyak DJ, **Gander PE**, Stevens S, Roberts LE (2007) Phase dynamics in the 40Hz auditory steady state response. *International Congress Series* 1300:29-32.

MAGAZINE ARTICLES

Gander PE, Davies J (2012) How to help residents who are troubled with tinnitus. *Nursing and Residential Care* 14:348-351.

Gander PE, Hall DA (2012) Understanding the tinnitus brain at rest. *ENT and Audiology News*.

Hall DA, **Gander PE** (2009) Nottingham re-establishes itself as a UK centre for tinnitus research. *Quiet: Quarterly magazine of The British Tinnitus Association*. Autumn issue.

MANUSCRIPTS IN PREPARATION

Gander PE, Kumar S, Kovach CK, Oya H, Kawasaki H, Howard III MA, Griffiths TD (in prep) Direct human electrical recordings demonstrating fundamental bases for auditory figure-ground analysis.

Gander PE, Choi I, McMurray B, Griffiths TD (in prep) Behavioural evidence for a relationship between auditory object grouping and speech-in-noise processing.

Gander PE, Ponto LL, Choi I, McMurray B, Gantz BJ, Griffiths TD (in prep) O-15 water PET study of speech in noise processing in hybrid cochlear implant patients.

GRANTS AND AWARDS

2019	Co-Investigator, DoD CDMRP Identifying the Sources of Degraded Speech-in-Noise Understanding and Individualized Therapeutic Options, \$1,362,646
2017	Co-Investigator, NIH P50 Iowa Cochlear Implant Clinical Research Center VII, \$12,362,985
2011	Deafness Research UK Pauline Ashley Prize, £5,000
2011	Building Experience and Skills Travel Scholarship, University of Nottingham, £2,000
2010	Young Investigator Travel Award, Universitat Konstanz, €1,000
2007	Ontario Graduate Scholarship in Science and Technology, McMaster University \$15,000
2006	Canadian Association for Neuroscience Young Scientist Award, \$300
2006	Yates Travel Scholarship, McMaster University, \$500
2002	NSERC Undergraduate Student Research Award, Simon Fraser University, \$5,700
1997	British Columbia Provincial Scholarship, \$1,000

INVITED TALKS (28)

- Gander PE** (2020, November) Direct mapping of the cortical tinnitus network. Virtual presentation at the University of Illinois at Urbana-Champaign TinnCon 2020.
- Gander PE** (2019, September) Mapping the cortical tinnitus network using acoustically- and electrically-induced suppression. Presentation at the University of Iowa Neuroscience Institute Workshop Neuromodulation 2019: Inputs, Outputs, and Outcomes, Iowa City, USA.
- Gander PE** (2019, July) Behavioural evidence for a relationship between auditory object formation and speech-in-noise processing. Presentation at the Midwest Auditory Research Conference, Springfield, USA.
- Gander PE** (2019, June) Tinnitus physiological models. Presentation at the University of Iowa Conference on the Management of the Tinnitus and Hyperacusis Patient conference, Iowa City, USA.
- Gander PE** (2019, May) Human Intracranial Recordings During Tinnitus Perceptual Change. Presentation at the International Hearing Loss Conference, Niagara-on-the-Lake, Canada.
- Gander PE** (2018, June) Tinnitus physiological models. Presentation at the University of Iowa Conference on the Management of the Tinnitus and Hyperacusis Patient conference, Iowa City, USA.
- Gander PE** (2018, February) O-15 Water PET study of speech in noise processing in cochlear implant patients. Presentation at the Association for Research in Otolaryngology conference, San Diego, USA.
- Gander PE** (2017, June) A brain system for auditory working memory: Evidence from human fMRI and ECoG during working memory for tones. Presentation at the Auditory Working Memory Workshop, Boston, USA.
- Gander PE** (2017, June) Tinnitus and its effects in the brain. Presentation at the University of Iowa Conference on the Management of the Tinnitus and Hyperacusis Patient conference, Iowa City, USA.
- Gander PE** (2017, February) Direct electrical recordings of neural activity related to auditory figure-ground segregation in the human auditory cortex. Presentation at the Association for Research in Otolaryngology conference, Baltimore, USA.
- Gander PE** (2016, September) Human neuroimaging of tinnitus. Presentation at the World Congress of Audiology conference, Vancouver, Canada.
- Gander PE** (2016, June) Tinnitus and its effects in the brain. Presentation at the University of Iowa Conference on the Management of the Tinnitus and Hyperacusis Patient conference, Iowa City, USA.
- Gander PE, Kumar S, Nourski KV, Oya H, Kawasaki MA, Howard MA, Griffiths TD** (2015, November) Direct recordings of oscillatory activity in the human auditory cortex during working memory for tones. Symposium presentation at the Society for Neuroscience conference, Chicago, USA.
- Gander PE, Sedley W, Kumar S, Oya H, Kovach CK, Nourski KV, Kawasaki H, Howard III MA, Griffiths TD** (2015, June) Intracranial mapping of a cortical tinnitus system using residual inhibition. Paper presented at the Tinnitus Research Initiative conference, Ann Arbor, USA.
- Gander PE** (2015, January) Current concepts in tinnitus: can they be translated into practice? Invited lecture at the National Centre for Audiology Seminar, University of Western Ontario, London, Canada.

- Gander PE** (2015, January) Current concepts in tinnitus: can they be translated into practice? Invited lecture at the ENT Grand Rounds, University of Western Ontario, London, Canada.
- Gander PE** (2014, September) Multimodal imaging of auditory working memory for tones. Invited lecture at the Department of Speech and Hearing Science, University of Illinois at Urbana-Champaign, Urbana, USA.
- Gander PE** (2014, February) Direct electrophysiological recording of human auditory cortex responses to different pitch values. Paper presented at the Association for Research in Otolaryngology conference, San Diego, USA.
- Gander PE** (2013, October) Brain imaging in tinnitus: navigating the minefield of positive and negative results. Invited lecture at the Tinnitus Symposium, University of Illinois at Urbana-Champaign, Urbana, USA.
- Gander PE** (2012, September) Pauline Ashley Prize research summary: Resting state fMRI analyses in tinnitus. Invited presentation at the British Society of Audiology conference, Nottingham, UK.
- Gander PE** (2011, October) Relationship between characteristics of tinnitus patients and hearing aid treatment outcome. Invited lecture at the Beckman Institute for Advanced Science and Technology at the University of Illinois at Urbana-Champaign, Urbana, USA.
- Gander PE, Hall DA** (2011, September) Relationship between characteristics of tinnitus patients and hearing aid treatment outcome. Paper presented at the British Society of Audiology conference, Nottingham, UK.
- Gander PE, Hoare DJ, Smith S, Collins L, Hall DA** (2010, September) NHS tinnitus provision: A survey of Audiology departments across England. Invited lecture at the British Tinnitus Association conference, Sheffield, UK.
- Gander PE, Hoare DJ, Smith S, Collins L, Hall DA** (2010, September) NHS tinnitus provision: A survey of Audiology departments across England. Invited lecture at the Hearbuy Ltd conference, Sutton Coldfield, UK.
- Gander PE** (2010, April) Attention modulates the amplitude and experience the phase of the 40-Hz auditory steady state response. Paper presented at the Changing People Changing Brains conference, Konstanz, Germany.
- Gander PE** (2010, March) Effects of training and attention on auditory evoked potentials. Invited lecture at the Institute for Sounds and Vibration Research, Southampton, UK.
- Gander PE, Hoare DJ, Hall DA** (2010, February) A survey of tinnitus service provision in English Audiology Departments. Paper presented at the British Association of Audiovestibular Physicians conference, Nottingham, UK.
- Gander PE, Bosnyak DJ, Roberts LE** (2009, June) The 40-hz auditory steady-state response in tinnitus and residual inhibition: effect of centre frequency of masking and probe sounds. Paper presented at the 3rd Tinnitus Research Initiative conference, Stresa, Italy.

CONFERENCE PRESENTATIONS, AS PRESENTER (41)

- Gander PE, Berger JI, Kumar S, Kovach CK, Oya H, Kawasaki MA, Howard MA, Griffiths TD** (2020, October) Direct electrical recordings of neural activity related to auditory figure-ground segregation in the human auditory cortex. Virtual poster presented at the Advances and Perspectives in Auditory Neuroscience conference.

- Gander PE**, Sedley W, Kumar S, Oya H, Kovach CK, Nourski KV, Kawasaki MA, Howard MA, Griffiths TD (2020, January) Direct mapping of the cortical tinnitus network. Poster presented at the Association for Research in Otolaryngology conference, San Jose, USA.
- Gander PE**, Sedley W, Kumar S, Oya H, Kovach CK, Nourski KV, Kawasaki MA, Howard MA, Griffiths TD (2019, October) Direct mapping of the cortical tinnitus network. Poster presented at the Society for Neuroscience conference, Chicago, USA.
- Gander PE**, Sedley W, Kumar S, Oya H, Kovach CK, Nourski KV, Kawasaki MA, Howard MA, Griffiths TD (2019, October) Direct mapping of the cortical tinnitus network. Poster presented at the Advances and Perspectives in Auditory Neuroscience conference, Chicago, USA.
- Gander PE**, Berger JI, Ponto LL, Johnsrude IJ, Choi I, McMurray B, Griffiths TD (2019, July) O-15 Water PET study of speech in noise processing in cochlear implant patients. Poster presented at the Midwest Auditory Research Conference, Springfield, USA.
- Gander PE**, Holmes E, Choi I, McMurray B, Griffiths TD (2019, May) Behavioural evidence for a relationship between auditory object formation and speech-in-noise processing. Poster presented at the International Hearing Loss Conference, Niagara-on-the-Lake, Canada.
- Berger JI, **Gander PE**, Ponto LL, Johnsrude IJ, Choi I, McMurray B, Griffiths TD (2019, May) O-15 Water PET study of speech in noise processing in cochlear implant patients. Poster presented at the International Hearing Loss Conference, Niagara-on-the-Lake, Canada.
- Gander PE**, Ponto LL, Choi I, McMurray B, Griffiths TD (2019, February) O-15 Water PET study of speech in noise processing in cochlear implant patients. Poster presented at the Association for Research in Otolaryngology conference, Baltimore, USA.
- Gander PE**, Ponto LL, Choi I, McMurray B, Griffiths TD (2018, November) O-15 Water PET study of speech in noise processing in cochlear implant patients. Poster presented at the Society for Neuroscience conference, San Diego, USA.
- Gander PE**, Ponto LL, Choi I, McMurray B, Griffiths TD (2018, November) O-15 Water PET study of speech in noise processing in cochlear implant patients. Poster presented at the Advances and Perspectives in Auditory Neuroscience conference, San Diego, USA.
- Gander PE**, Choi I, McMurray B, Griffiths TD (2018, February) Behavioural evidence for a relationship between auditory object grouping and speech-in-noise processing. Poster presented at the Association for Research in Otolaryngology conference, San Diego, USA.
- Gander PE**, Choi I, McMurray B, Griffiths TD (2017, September) Behavioural evidence for a relationship between auditory object grouping and speech-in-noise processing. Poster presented at the International Conference on Auditory Cortex, Banff, Canada.
- Gander PE**, Ponto LL, Choi I, McMurray B, Griffiths TD (2017, September) O-15 Water PET study of speech in noise processing in cochlear implant patients. Poster presented at the International Conference on Auditory Cortex, Banff, Canada.
- Gander PE**, Kumar S, Nourski KV, Oya H, Kawasaki MA, Howard MA, Griffiths TD (2016, November) Direct human electrical recordings demonstrating fundamental bases for auditory figure-ground analysis. Poster presented at the Society for Neuroscience conference, San Diego, USA.
- Gander PE**, Sedley W, Kumar S, Oya H, Kovach CK, Nourski KV, Kawasaki MA, Howard MA, Griffiths TD (2016, March) Involvement of parahippocampus in tinnitus percept. Poster presented at the Tinnitus Research Initiative conference, Nottingham, UK.
- Gander PE**, Kumar S, Nourski KV, Oya H, Kawasaki MA, Howard MA, Griffiths TD (2016, February) Direct recordings of oscillatory activity in the human auditory cortex during working

memory for tones. Poster presented at the Association for Research in Otolaryngology conference, San Diego, USA.

Kumar S, Joseph S, **Gander PE**, Barascud N, Halpern AR, Griffiths TD (2015, November) A brain system for auditory working memory. Poster presented at the Society for Neuroscience conference, Chicago, USA.

Kumar S, Joseph S, **Gander PE**, Barascud N, Halpern AR, Griffiths TD (2015, November) A brain system for auditory working memory. Poster presented at the Advances and Perspectives in Auditory Neuroscience conference, Chicago, USA.

Gander PE, Kumar S, Nourski KV, Oya H, Kawasaki MA, Howard MA, Griffiths TD (2015, November) Direct recordings of oscillatory activity in the human auditory cortex during working memory for tones. Poster presented at the Advances and Perspectives in Auditory Neuroscience conference, Chicago, USA.

Gander PE, Kumar S, Nourski KV, Oya H, Kawasaki MA, Howard MA, Griffiths TD (2015, February) Direct electrical recordings of neural activity related to auditory figure-ground segregation in the human auditory cortex. Poster presented at the Association for Research in Otolaryngology conference, Baltimore, USA.

Gander PE, Kumar S, Nourski KV, Oya H, Kawasaki MA, Howard MA, Griffiths TD (2014, November) Direct recordings of sustained theta-band electrical activity in the human auditory cortex during working memory for tones. Poster presented at the Society for Neuroscience conference, Washington DC, USA.

Sedley W, **Gander PE**, Kumar S, Oya H, Kovach CK, Nourski KV, Kawasaki MA, Howard MA, Griffiths TD (2014, November) Direct mapping of the cortical tinnitus network. Poster presented at the Society for Neuroscience conference, Washington DC, USA.

Kumar S, **Gander PE**, Nourski KV, Oya H, Kawasaki MA, Howard MA, Griffiths TD (2014, November) Direct electrical recordings of neural activity related to auditory figure-ground segregation in the human auditory cortex. Poster presented at the Society for Neuroscience conference, Washington DC, USA.

Sedley W, **Gander PE**, Kumar S, Oya H, Kovach CK, Nourski KV, Kawasaki MA, Howard MA, Griffiths TD (2014, September) Direct mapping of the cortical tinnitus network. Poster presented at the Auditory Cortex conference, Magdeburg, Germany.

Kumar S, **Gander PE**, Joseph S, Halpern AR, Husain M, Nourski KV, Oya H, Kawasaki MA, Howard MA, Griffiths TD (2014, September) Haemodynamic pattern analysis and direct electrical recording of human brain activity during working memory for tones. Poster presented at the Auditory Cortex conference, Magdeburg, Germany.

Sedley W, **Gander PE**, Oya H, Kawasaki MA, Howard MA, Griffiths TD (2014, February) Direct human recordings of dynamic tinnitus correlates. Poster presented at the Association for Research in Otolaryngology conference, San Diego, USA.

Gander PE, Kumar S, Nourski KV, Howard MA, Griffiths TD (2013, November) Human depth electrode recording of auditory cortex responses to different pitch values. Poster presented at the Society for Neuroscience conference, San Diego, USA.

Gander PE, Kumar S, Nourski KV, Howard MA, Griffiths TD (2013, November) Human depth electrode recording of auditory cortex responses to different pitch values. Poster presented at the Advances and Perspectives in Auditory Neurophysiology conference, San Diego, USA.

Gander PE, Kumar S, Nourski KV, Howard MA, Griffiths TD (2012, October) Human depth electrode recording of auditory cortex responses to different pitch classes. Poster presented at the Advances and Perspectives in Auditory Neurophysiology conference, New Orleans, USA.

- Gander PE**, Kang S, Hall DA (2011, September) How do the psychological and psychoacoustic characteristics of tinnitus patients and non-patients relate to tinnitus distress? Poster presented at the British Society of Audiology conference, Nottingham, UK.
- Gander PE**, Hoare DJ, Collins L, Smith S, Hall DA (2010, September) A survey of Audiology departments across England: Tinnitus assessment, treatment and outcome measures. Poster presented at the British Society of Audiology conference, Manchester, UK.
- Gander PE**, Bosnyak DJ, Roberts LE (2009, September) Attention modulates the amplitude and experience the phase of the 40-Hz auditory steady state response. Poster presented at the British Society of Audiology Short Papers conference, Southampton, UK.
- Gander PE**, Bosnyak DJ, Roberts LE (2008, June) Modality-specific selective attention to simultaneous auditory and visual events. Poster presented at the Society for Neuroscience conference, Washington DC, USA.
- Gander PE**, Bosnyak DJ, Roberts LE (2008, June) Modality-specific selective attention to simultaneous auditory and visual events. Poster presented at the Canadian Society of Brain, Behaviour, and Cognitive Science conference, London, Canada.
- Gander PE**, Bosnyak DJ, Roberts LE (2007, November) A test for frequency-specific modulation of primary auditory cortex by attention, using the 40-Hz auditory steady state response. Poster presented at the Society for Neuroscience conference, San Diego, USA.
- Gander PE**, Bucarelli DA, Bosnyak DJ, Roberts LE (2007, May) An investigation of the frequency selectivity of attentional modulation of primary auditory cortex. Poster presented at the Canadian Association for Neuroscience conference, Toronto, Canada.
- Gander PE**, Bosnyak DJ, Wolek R, Roberts LE (2006, October) Modulation of the 40-Hz auditory steady state response by attention during acoustic training. Poster presented at the Society for Neuroscience conference, Atlanta, USA.
- Gander PE**, Bosnyak DJ, Wolek R, Roberts LE (2006, August) Modulation of the 40-Hz auditory steady state response by attention during acoustic training. Paper presented at the International Conference on Biomagnetism, Vancouver, Canada.
- Gander PE**, Bosnyak DJ, Wolek R, Roberts LE (2005, July) Attentional modulation of the 40-Hz auditory steady state response and other auditory evoked potentials during acoustic training. Poster presented at the Canadian Society of Brain, Behaviour, and Cognitive Science conference, Montreal, Canada.
- Gander PE**, Bosnyak DJ, Wolek R, Roberts LE (2005, June) Attentional modulation of the auditory steady state response and other AEPs during acoustic training. Paper presented at the Lake Ontario Auditory Neuroscience conference, Hamilton, Canada.
- Gander PE**, Visser TAW, McDonald JJ, DiLollo V (2002, May) Electrophysiological evidence for selective target processing in visual search. Poster presented at the North West Cognition and Memory conference, Burnaby, Canada.

CONFERENCE PRESENTATIONS, AS CO-AUTHOR (65)

- Berger JI, **Gander PE**, Kikuchi Y, Oya H, Kawasaki H, Howard III MA, Griffiths TD (2020 October) Distribution of multi-unit pitch responses recorded intracranially from human auditory cortex. Virtual poster presented at the Advances and Perspectives in Auditory Neuroscience conference.

- Billig AJ, **Gander PE**, Berger JI, Kovach CK, Kawasaki H, Griffiths TD, Johnsrude IS, Howard III MA, Chait, M (2020 October) Signatures of regularity processing in human intracranial recordings. Virtual poster presented at the Advances and Perspectives in Auditory Neuroscience conference.
- Kocsis Z, Jenison RL, McMurray B, Rhone AE, Sarrett ME, **Gander PE**, Kawasaki H, Greenlee JD, Kovach CK, Griffiths TD, Howard III MA, Petkov CI (2020 October) Temporal lobe surgical resection disrupts neural responses to speech along the human auditory cortical neural network. Virtual poster presented at the Advances and Perspectives in Auditory Neuroscience conference.
- Berger JI, **Gander PE**, Kumar S, Nourski KV, Banks M, Oya H, Kawasaki H, Howard II MA, Griffiths TD (2020 January) Oscillatory correlates of auditory working memory in human intracranial EEG. Poster presented at the Association for Research in Otolaryngology conference, San Jose, USA.
- Billig AJ, **Gander PE**, Kovach CK, Kawasaki H, Griffiths TD, Johnsrude IS, Howard III MA, Chait, M (2020 January) Signatures of regularity in low- and high-frequency activity recorded from human primary and non-primary auditory cortex. Poster presented at the Association for Research in Otolaryngology conference, San Jose, USA.
- Kovach CK, Nourski KV, **Gander PE**, Oya H, Kawasaki H, Howard III MA (2019 October) Evoking potentials without events: Intrinsic response identification in neural recordings using higher-order spectra. Poster presented at the Society for Neuroscience conference, Chicago, USA.
- Ramirez-Cardenas A, Kovach CK, Ramirez-Villegas JF, Cole RC, Grossbach A, **Gander PE**, Kawasaki H, Greenlee JD, Howard III MA, Voss MW (2019 October) Exercise acutely increases the coupling between hippocampal and neocortical ripples in humans. Poster presented at the Society for Neuroscience conference, Chicago, USA.
- Syed D, Kovach CK, **Gander PE**, Reddy CG, Snoad BF, Howard III MA (2019, October) Bispectral feature extraction improves brain-computer interface performance. Poster presented at the Society for Neuroscience conference, Chicago, USA.
- Berger JI, **Gander PE**, Kumar S, Nourski KV, Oya H, Kawasaki MA, Howard MA, Griffiths TD (2019, October) Oscillatory correlates of auditory working memory using electrocorticography. Poster presented at the Society for Neuroscience conference, Chicago, USA.
- Kocsis Z, Jenison RL, McMurray B, Rhone AE, Sarrett ME, **Gander PE**, Nourski KV, Steinschneider M, Calmus R, Kawasaki H, Greenlee J, Griffiths TD, Kovach CK, Howard III MA, Petkov CI (2019, October) Anterior temporal lobe disconnection disrupts auditory cortical oscillatory neural responses to speech in the human brain. Poster presented at the Society for Neuroscience conference, Chicago, USA.
- Berger JI, **Gander PE**, Kumar S, Nourski KV, Oya H, Kawasaki MA, Howard MA, Griffiths TD (2019, October) Oscillatory correlates of auditory working memory using electrocorticography. Poster presented at the Advances and Perspectives in Auditory Neuroscience conference, Chicago, USA.
- Kocsis Z, Jenison RL, McMurray B, Rhone AE, Sarrett ME, **Gander PE**, Nourski KV, Steinschneider M, Calmus R, Kawasaki H, Greenlee J, Griffiths TD, Kovach CK, Howard III MA, Petkov CI (2019, October) Anterior temporal lobe disconnection disrupts auditory cortical oscillatory neural responses to speech in the human brain. Poster presented at the Advances and Perspectives in Auditory Neuroscience conference, Chicago, USA.
- Berger JI, **Gander PE**, Kumar S, Nourski KV, Oya H, Kawasaki MA, Howard MA, Griffiths TD (2019, July) Oscillatory correlates of auditory working memory using electrocorticography. Presentation at the Midwest Auditory Research Conference, Springfield, USA.

- Kovach CK, Nourski KV, **Gander PE**, Oya H, Kawasaki H, Howard III MA (2019, February) Mechanisms of auditory evoked response generation revealed with bispectral pattern recovery. Poster presented at the Cosyne conference, Lisbon, Portugal.
- Billig AJ, **Gander PE**, Sedley W, Chait M, Kawasaki H, Kovach CK, Howard III MA, Griffiths TD (2019, February) Active tracking of sound textures: a human intracranial study. Poster presented at the Association for Research in Otolaryngology conference, Baltimore, USA.
- Billig AJ, **Gander PE**, Sedley W, Chait M, Kawasaki H, Kovach CK, Howard III MA, Griffiths TD (2018, September) Active tracking of sound textures: a human intracranial study. Poster presented at the British Society of Audiology Basic Auditory Science conference, Newcastle upon Tyne, UK.
- Kikuchi Y, Kovach CK, Calmus R, **Gander PE**, Rhone AE, Nourski KV, Kawasaki H, Griffiths TD, Howard III MA, Petkov CI (2018, September) Predictive auditory sequence learning modulates inter-regional oscillatory coupling in human intracranial recordings. Presentation at the British Society of Audiology Basic Auditory Science conference, Newcastle upon Tyne, UK.
- Trapp NT, Oya H, Uitermarkt BD, **Gander PE**, Bruss J, Howard III MA, Boes AD (June, 2018) Effects of repetitive transcranial magnetic stimulation on the human brain revealed by intracranial electrocorticography. Presentation at the Neuroplasticity of Sensory Systems conference, Hong Kong, China.
- Trapp NT, Oya H, Uitermarkt BD, **Gander PE**, Bruss J, Howard III MA, Boes AD (May, 2018) Effects of repetitive transcranial magnetic stimulation on the human brain revealed by intracranial electrocorticography. Poster presented at the Society for Biological Psychiatry conference, New York City, USA.
- Uitermarkt BD, Oya H, Trapp NT, **Gander PE**, Bruss J, Howard III MA, Boes AD (April, 2018) Effects of repetitive transcranial magnetic stimulation on the human brain revealed by intracranial electrocorticography. Poster presented at the Minnesota Neuromodulation Symposium, Minnesota, USA.
- Snoad BF, **Gander PE**, Howard III MA (2018, March) Auditory fMRI language ‘localizer’ study with epilepsy patients. Poster presented at the Cognitive Neuroscience Society conference, Boston, USA.
- Billig AJ, Nourski KV, Rhone AE, **Gander PE**, Howard III MA, Johnsrude IS (2018, February) Linguistic knowledge affects auditory streaming of speech: Insights from intracranial recordings and functional magnetic resonance imaging. Presentation at the Association for Research in Otolaryngology conference, San Diego, USA.
- Billig AJ, Herrmann B, Rhone AE, **Gander PE**, Nourski KV, Howard III MA, Johnsrude IS (2018, February) Alpha oscillations within human auditory cortex: An intracranial electrophysiology study. Poster presented at the Association for Research in Otolaryngology conference, San Diego, USA.
- Kim S, Schwalje A, **Gander PE**, Liu A, Griffiths TD, Choi I (2018, February) Natural speech-evoked frontal cortex response reflects speech-in-noise understanding difficulty. Presentation at the Association for Research in Otolaryngology conference, San Diego, USA.
- Choi I, Kim S, Schwalje A, Na Y, **Gander PE**, Liu A, Woo J, McMurray B, Griffiths TD (2018, February) Frontal and auditory cortex interplay predicts variances of speech-in-noise understanding in cochlear implant users. Poster presented at the Association for Research in Otolaryngology conference, San Diego, USA.
- Sedley W, Kumar S, **Gander PE**, Friston K, Griffiths TD (2017, September) Sensory precision in tinnitus: a unifying framework for understanding, modelling and treatment?. Poster presented at the International Conference on Auditory Cortex, Banff, Canada.

- Choi I, Kim S, Schwalje A, **Gander PE**, McMurray B, Griffiths TD (2017, September) Cortical responses reveal individual differences in speech-in-noise understanding ability. Poster presented at the International Conference on Auditory Cortex, Banff, Canada.
- Choi I, Emory C, Kim S, **Gander PE** (2017, February) Selective attention ability explains variance of speech-in-noise understanding performance in cochlear implant users. Presentation at the Association for Research in Otolaryngology conference, Baltimore, USA.
- Griffiths TD, Chait M, Choi I, Dheerendra P, **Gander PE**, Kumar S, Teki S (2017, February) Figure-ground analysis based on the sequential grouping of spectral patterns. Presentation at the Association for Research in Otolaryngology conference, Baltimore, USA.
- Billig AJ, Rhone AE, **Gander PE**, Nourski KV, Wild CJ, Howard III MA, Johnsrude IS (2017, February) Intracranial recordings reveal modulation of primary auditory cortical activity during pop-out of degraded speech based on matching visual information. Poster presented at the Association for Research in Otolaryngology conference, Baltimore, USA.
- Kim S, Griffiths TD, **Gander PE**, Choi I (2017, February) Neural correlates of variance in speech-in-noise understanding performance. Poster presented at the Association for Research in Otolaryngology conference, Baltimore, USA.
- Billig AJ, Rhone AE, **Gander PE**, Nourski KV, Howard III MA, Johnsrude IS (2016, November) Auditory streaming of speech: acoustics, lexicality and neural signatures. Poster presented at the Advances and Perspectives in Auditory Neuroscience conference, San Diego, USA.
- Billig AJ, Rhone AE, **Gander PE**, Nourski KV, Wild CJ, Howard III MA, Johnsrude IS (2016, August) Intracranial recordings reveal modulation of high gamma activity in primary auditory cortex during speech pop-out. Poster presented at the Society for the Neurobiology of Language conference, London, UK.
- Davies J, **Gander PE**, Hall DA (2016, March) Does chronic tinnitus alter the emotional response function of the amygdala?: A sound-evoked fMRI study. Presentation at the Tinnitus Research Initiative conference, Nottingham, UK.
- Husain FT, Jensen JN, Shen S, **Gander PE** (2016, March) Using regression modeling of survey data to better understand expectations of tinnitus by audiologists and patients. Presentation at the Tinnitus Research Initiative conference, Nottingham, UK.
- Sedley W, **Gander PE**, Kumar S, Oya H, Kawasaki H, Howard III MA, Griffiths TD (2015, November) Neural signatures of predictive coding in cortical pitch processing. Poster presented at the Society for Neuroscience conference, Chicago, USA.
- Kikuchi Y, Attaheri A, Wilson B, Rhone AE, Nourski KV, **Gander PE**, Kovach CK, Kawasaki H, Griffiths TD, Howard III MA, Petkov CI (2015, November) Nonsense word sequences elicit comparable nested oscillations in intracranial recordings from human and monkey auditory cortex. Symposium presentation at the Society for Neuroscience conference, Chicago, USA.
- Sedley W, **Gander PE**, Kumar S, Kovach CK, Oya H, Kawasaki H, Howard III MA, Griffiths TD (2015, November) Neural signatures of predictive coding in cortical pitch processing. Poster presented at the Advances and Perspectives in Auditory Neuroscience conference, Chicago, USA.
- Kikuchi Y, Attaheri A, Wilson B, Rhone AE, Nourski KV, **Gander PE**, Kovach CK, Kawasaki H, Griffiths TD, Howard III MA, Petkov CI (2015, November) Nonsense word sequences elicit comparable nested oscillations in intracranial recordings from human and monkey auditory

- cortex. Poster presented at the Advances and Perspectives in Auditory Neuroscience conference, Chicago, USA.
- Hoare DJ, **Gander PE**, Collins L, Smith S, Hall DA (2010, November) A survey of Audiology departments across England: Referral pathways. Poster presented at the British Academy of Audiology conference, Edinburgh, UK.
- El-Shunnar S, Hoare DJ, **Gander PE**, Smith S, Hall DA (2010, November) A National Survey of Tinnitus Management in Primary Care. Poster presented at the British Academy of Audiology conference, Edinburgh, UK.
- Hall DA, Hoare DJ, **Gander PE**, Smith S, Collins L (2010, November) NHS tinnitus provision: A survey of Audiology departments across England. Invited lecture at the Tinnitus and Communication Information Event hosted by the RNID, Belfast, UK.
- Hoare DJ, **Gander PE**, Collins L, Smith S, Hall DA (2010, September) A survey of Audiology departments across England: Referral pathways. Poster presented at the British Society of Audiology conference, Manchester, UK.
- Gander PE**, Hoare DJ, Smith S, Collins L, Hall DA (2010, June) A survey of Audiology departments across England: Tinnitus assessment, treatment and outcome measures. Poster presented at the 4th Tinnitus Research Initiative conference, Dallas, USA.
- Hoare DJ, **Gander PE**, Collins L, Smith S, Hall DA (2010, June) A survey of Audiology departments across England: Referral pathways. Poster presented at the 4th Tinnitus Research Initiative conference, Dallas, USA.
- Bosnyak DJ, **Gander PE**, Roberts LE (2009, June) Electrophysiological assessment of training outcomes using simultaneously evoked transient and steady-state responses. Paper presented at the 3rd Tinnitus Research Initiative conference, Stresa, Italy.
- Roberts LE, **Gander PE**, Bosnyak DJ (2009, June) Induction of neural plasticity by auditory training. Paper presented at the 3rd Tinnitus Research Initiative conference, Stresa, Italy.
- Roberts LE, Bosnyak DJ, **Gander PE** (2008, November) The 40-Hz auditory steady-state response in tinnitus tracks age-related deficits in intracortical inhibition but does not follow the tinnitus percept. Poster presented at the annual meeting of the Society for Neuroscience conference, Washington DC, USA.
- Bosnyak DJ, **Gander PE**, Roberts LE (2008, June) Does the amplitude of the 40-Hz auditory steady-state response track the tinnitus percept? Poster presented at the Canadian Society of Brain, Behaviour, and Cognitive Science conference, London, Canada.
- Roberts LE, Bosnyak DJ, **Gander PE** (2008, June) Attention modulates the amplitude and experience the phase of the 40-Hz auditory steady state response. Poster presented at the Canadian Society of Brain, Behaviour, and Cognitive Science conference, London, Canada.
- Roberts LE, Bosnyak DJ, **Gander PE** (2008, June) Implications of evidence for remodeling of human auditory cortex for sensory training in tinnitus. Paper presented at the 9th International Tinnitus Seminars, Goteborg, Sweden.
- Bosnyak DJ, **Gander PE**, Roberts LE (2008, June) Does the amplitude of the 40-Hz auditory steady-state response track the tinnitus percept? Poster presented at the 9th International Tinnitus Seminars, Goteborg, Sweden.
- Bosnyak DJ, **Gander PE**, Roberts LE (2007, November) Phase dynamics of the 40-Hz auditory steady state response. Poster presented at the Society for Neuroscience conference, San Diego, USA.

- Roberts LE, Bosnyak DJ, **Gander PE** (2007, November) Attention modulates the amplitude and experience the phase of the 40-Hz auditory steady state response. Poster presented at the Society for Neuroscience conference, San Diego, USA.
- Bosnyak DJ, Leone AM, **Gander PE**, Roberts LE (2007, May) Responses in the primary auditory cortex in tinnitus sufferers after introduction of residual inhibition by masking sounds. Poster presented at the Canadian Association for Neuroscience conference, Toronto, Canada.
- Bosnyak DJ, **Gander PE**, Roberts LE (2006, October) Does auditory discrimination training in nonmusicians modify representations in both primary and secondary auditory cortex? Poster presented at the Society for Neuroscience conference, Atlanta, USA.
- Bosnyak DJ, **Gander PE**, Roberts LE (2006, August) Does auditory discrimination training in nonmusicians modify representations in both primary and secondary auditory cortex? Paper presented at the International Conference on Biomagnetism, Vancouver, Canada.
- Bosnyak DJ, Stevens S, **Gander PE**, Roberts LE (2006, August) Phase dynamics in the 40Hz auditory steady state response. Paper presented at the International Conference on Biomagnetism, Vancouver, Canada.
- Bosnyak DJ, **Gander PE**, Shahin A, Roberts LE (2005, September) The neuroplastic P2 and other evoked responses of the human auditory system. Paper presented at the Society for Psychophysiological Research conference, Lisbon, Portugal.
- Roberts LE, Bosnyak DJ, Shahin A, **Gander PE** (2005, July) The neuroplastic P2 and other evoked responses of the human auditory system. Paper presented at the Canadian Society of Brain, Behaviour, and Cognitive Science conference, Montreal, Canada.
- Bosnyak DJ, **Gander PE**, Roberts LE (2005, July) Electrophysiological investigation of frequency integration in human auditory cortex. Poster presented at the Canadian Society of Brain, Behaviour, and Cognitive Science conference, Montreal, Canada.
- Roberts LE, Bosnyak DJ, **Gander PE**, Trainor LJ (2005, June) Development of the 40-Hz auditory steady state response from childhood to late adolescence. Paper presented at the Lake Ontario Auditory Neuroscience conference, Hamilton, Canada.
- Bosnyak DJ, Roberts LE, **Gander PE** (2005, June) Electrophysiological investigation of frequency integration in human auditory cortex. Paper presented at the Lake Ontario Auditory Neuroscience conference, Hamilton, Canada.
- McDonald JJ, Visser TAW, **Gander PE**, DiLollo V (2002, November) Electrophysiological evidence for selective target processing in visual search. Paper presented at the Psychonomic Society conference, Kansas City, USA.
- McDonald JJ, **Gander PE**, Visser TAW, DiLollo V (2002, June) Electrophysiological evidence for selective target processing in visual search. Poster presented at the Canadian Society of Brain, Behaviour, and Cognitive Science conference, Vancouver, Canada.

CAMPUS/DEPARTMENTAL PRESENTATIONS (5)

- Gander PE** (January, 2016) Intracranial mapping of a tinnitus system. University of Iowa, Pappajohn Biomedical Institute, Best Paper Competition, Iowa City, USA.
- Gander PE**, Sedley W, Kumar S, Oya H, Kovach CK, Nourski KV, Kawasaki MA, Howard MA, Griffiths TD (2014, April) How tinnitus invades the brain: direct recordings of the cortical tinnitus network. Poster presented at the University of Iowa Health Sciences Research Week Poster Session, Iowa City, USA.

Gander PE, Kumar S, Nourski KV, Howard MA, Griffiths TD (2013, June) Human depth electrode recording of auditory cortex responses to different pitch values. Poster presented at the Iowa State University, Postdoctoral Research Day, Ames, USA.

Gander PE, Bosnyak DJ, Roberts LE (2009, June) Attention modulates the amplitude and experience the phase of the 40-Hz auditory steady state response. Poster presented at the Manchester Neuroscience Research Institute meeting, Manchester, UK.

Gander PE, Bosnyak DJ, Wolek R, Roberts L E (2005, May) Attentional modulation of the 40-HZ auditory steady state response and other auditory evoked potentials during acoustic training. Poster presented at the CIHR Poster Reception, McMaster University, Hamilton, Canada.

TEACHING EXPERIENCE

- 2016 **Guest lecture**, Communication Sciences and Disorders –Advanced Hearing Science, University of Iowa
- 2016 **Guest lecture**, Biology –Neuroscience Seminar, University of Iowa
- 2011 **Guest lecture**, Psychology – Cognitive Neuroscience of Attention, Nottingham Trent University
- 2007 **Guest lecture**, Psychology – Neuroscience Seminar, McMaster University
- 2006 **Guest lecture**, Psychology – Abnormal Psychology, McMaster University
- 2003-2008 **Teaching Assistant (9 courses)**, Psychology, McMaster University
- 2002-2003 **Teaching Assistant (2 courses)**, Psychology, Simon Fraser University

RESEARCH EXPERIENCE

- 2001-2003 **Electrophysiology Technician/Research Assistant**, Psychology, Human Electrophysiology Lab, Simon Fraser University
- 1998-2001 **Research Assistant**, Psychology, Mental Health, Law and Policy Institute, Simon Fraser University
- 1997 **Research Assistant**, Psychology, Memory Lab, Simon Fraser University

SUPERVISORY EXPERIENCE

- 2019-present **Co-supervisor**, Postdoctoral scholar – Dr Joel Berger, University of Iowa
- 2011-2016 **Co-supervisor**, PhD – Mr Jeff Davies, Hearing Biomedical Research Unit, University of Nottingham
- 2013-2015 **Graduate Committee Member**, AuD – Ms Jaclyn Utz, Department of Speech and Hearing Science, University of Illinois at Urbana-Champaign

EXTRACURRICULAR SERVICE

- 2014 **Conference chair**, 1st Annual Midwest Postdoctoral Forum Symposium, University of Iowa.

Organized conference for 100 attendees (across 5 universities); budget \$6,000.

SERVICE TO PROFESSION

Doctor of Audiology thesis examination, University of Auckland.

Reviewer of grant applications: Neurological Foundation for New Zealand

COMMUNITY SERVICE

2004-2008 McMaster University Brain Bee
Assisted organization and tutored local winners for competition in National and International Bees, including one National Winner.

PROFESSIONAL AFFILIATIONS

2006-present Society for Neuroscience
2013-present Association for Research in Otolaryngology
2009-2012 British Tinnitus Association
2006-2007 Canadian Association for Neuroscience

PROFESSIONAL ACTIVITIES

2019-present **Board member**, American Tinnitus Association
2014-2015 **Co-chair**, Midwest Postdoctoral Forum
2013-2014 **President**, University of Iowa Postdoctoral Association
2012-2013 **College of Medicine Representative**, University of Iowa Postdoctoral Assoc.

PUBLIC ENGAGEMENT

Gander PE (2020, July) Research panel. British Tinnitus Association.
Gander PE (2019, September) Research discussion. Globe and Mail Canada.
Gander PE (2019, June) Research discussion. Atlantic Magazine.
Gander PE (2019, March) Research discussion. NPR Los Angeles.
Gander PE (2019, January) Research discussion. Student research project. University of Florida.
Gander PE (2018, November) Research discussion. Popular Science Magazine.
Gander PE (2018, October) Research discussion. Radio Slovenia.
Gander PE (2018, May) Research discussion. Twenty Thousand Hertz podcast.
Gander PE (2018, April) Research discussion. Talk Radio Europe.
Gander PE (2018, March) Research discussion. Student research project. Columbia University.

Gander PE (2018, March) Conversations in Tinnitus. Audiology Talk podcast.

Gander PE (2017, November) Research discussion. Student research project. Boston University.

Gander PE (2017, October) Research discussion. Think: Health 2SER Radio, Australia.

Gander PE (2017, June) Research discussion. Deutsche Welle Radio, Germany.

Gander PE (2017, March) Live research discussion. Iowa Public Radio.

Gander PE (2017, March) Live research discussion. Wisconsin Public Radio.

Gander PE (2017, March) Research discussion. CBC Radio.

Gander PE (2015, September) Research discussion. Sirius/XM Doctor Radio.

Gander PE (2015, May) Research discussion. Radio-Canada Montreal.

Gander PE (2015, May) Research discussion. Finish Broadcasting Company radio.

Gander PE (2015, April) Research discussion. Sirius/XM Doctor Radio.

Gander PE (2015, April) Research discussion. Freelance reporter Angus Chen.

Gander PE (2012, March) Research discussion. Radio Swindon, UK.

Gander PE (2012, March) Research discussion. Preston FM, UK.

Gander PE (2012, March) Research discussion. BBC Bradford Radio, UK.

Gander PE (2012, February) Research discussion. Tinnitus Awareness week. King's Mill Hospital, Sutton-in-Ashfield, UK.

Gander PE (2011, May) Tinnitus support group discussion. BBC Radio Nottingham, UK.

Gander PE (2011, April) Research discussion. Nottingham tinnitus support group, UK.

Gander PE (2011, March) Research discussion. Chesterfield tinnitus support group, UK.

Gander PE (2011, January) Research discussion. BBC Radio Scotland, UK.

Gander PE, Hall DA (2010, April) Tinnitus research showcase. University of Nottingham Community Open Day.

Gander PE, Hoare DJ, Collins L, Smith S, Hall DA (2010, February) A survey of tinnitus service provision in English Audiology departments. Nottingham tinnitus support group, UK.

Gander PE, Hoare DJ, Collins L, Smith S, Hall DA (2010, February) A survey of tinnitus service provision in English Audiology departments. Chesterfield tinnitus support group, UK.

Gander PE (2009, December) Tinnitus research discussion. BBC Radio Nottingham, UK.

Gander PE (2009, December) Tinnitus overview. Public tinnitus lecture. Nottingham, UK.

AD HOC REVIEWER

eLife, Journal of Neuroscience, Cerebral Cortex, Scientific Reports, Psychological Medicine, Current Research in Neurobiology, Neuroimage, Human Brain Mapping, Journal of Neurophysiology, European Journal of Neuroscience, iScience, Hearing Research, Ear and Hearing, Behavioral Brain Research, Trends in Hearing, International Journal of Audiology, PLoS One, Frontiers in Neuroscience, Frontiers in Auditory Cognitive Neuroscience, Frontiers in Psychology, Frontiers in Aging Neuroscience, Behavioral Sciences, PeerJ, Multisensory Research