Ingrid S Johnsrude

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ACADEMIC POSITIONS

03/2019 -	**Director,** The Brain and Mind Institute, Western University.
07/2014 –	**Western Research Chair** and **Professor** Department of Psychology and School of Communication Sciences & Disorders, Western University
07/2014 – 11/2019	**Adjunct Professor** Department of Psychology and Centre for Neuroscience, Queen's University
11/2013 – 06/2014	**Adjunct Professor** Department of Psychology and School of Communication Sciences & Disorders, Western University
07/2013 – 06/2014	**Professor and Canada Research Chair** in Cognitive Neuroscience, Department of Psychology, Queen's University
04/2010 – 01/2015	**Professor of Cognitive Hearing Science**, Linköping University, Sweden (20% time)
07/2007 – 06/2013	**Associate Professor** and **Canada Research Chair** in Cognitive Neuroscience, Department of Psychology, Queen's University
07/2004 – 06/2007	**Assistant Professor** and **Canada Research Chair** in Cognitive Neuroscience, Department of Psychology, Queen's University
01/2000 – 06/2004	**Investigator Scientist**, MRC Cognition and Brain Sciences Unit, Cambridge UK

EDUCATION

1997-2000	**Wellcome Trust Travelling Postdoctoral Fellow** Functional Imaging Laboratory, University College London, UK Supervisor: Prof Richard SJ Frackowiak
1992-1997	**PhD in Clinical Psychology** McGill University Supervisor: Prof Brenda Milner Thesis: *The neural substrates of the processing of speech sounds*
1989-1992	**MSc in Experimental Psychology** McGill University Supervisor: Prof Brenda Milner Thesis: *The effect of presentation rate on the comprehension and recall of speech after anterior temporal-lobe resection*.
1985-1989	**BSc (Hons) in Psychology** Queen's University

AWARDS AND PRIZES (all amounts in CDN unless otherwise stated)

2017-2020	**NSERC Accelerator (Discovery Grant) Supplement**	$120,000
2014-	**Western Research Chair**, Western University (renewed 2019)	
2009	**Fulbright Scholar Award** (declined)	$12,500 US
2009	Five-year **Tier II Canada Research Chair** (CRC) in Cognitive Neuroscience (renewal)	$500,000
2010	Elected to the **Global Young Academy** (https://globalyoungacademy.net/)	
2009	**NSERC E.W.R. Steacie Memorial Fellowship**	
2008	Selected by the **Royal Society of Canada** and the **Inter-Academies Panel** to join the international Young Scientists delegation to the **World Economic Forum** – 2008 Annual Meeting of the New Champions, Tianjin, China Sept 25-28 2008	

2006	Five-year **Early Researcher Award**, Ontario Government: "Functional neuroimaging of speech and language"	$100,000
2006	Five-year **Chancellor's Research Award**, Queen's University: "Functional neuroimaging of speech and language"	$50,000
2004	Five-year **Tier II Canada Research Chair** (CRC) in Cognitive Neuroscience	$500,000
2003	**Ig Nobel prize in Medicine** for Maguire EA et al (2000) Navigation-related structural change in the hippocampi of taxi drivers. Proceedings of the National Academy of Sciences, 97, 4398-403	
2002	Non-stipendiary **Research Fellowship, Clare Hall College, Cambridge** (Oct 2002 - Sept 2005; Life Membership 2005 - present)	
1997-1999	**Wellcome Trust Travelling Research Fellowship**	
1997-1999	**Human Frontiers Science Program Organisation Fellowship** (declined).	
1996	**McDonnell-Pew Summer Institute in Cognitive Neuroscience**, Dartmouth College, Hanover, New Hampshire (deferred to 1997).	
1990-1995	**Medical Research Council of Canada Studentship**	
1985-1986	**Newfoundland Electoral District Prize Scholarship**	

COMPETITIVE GRANT FUNDING (**received** - all amounts in CAD unless otherwise stated)

2020-2021	Western **SSHRC Explore** Grant: Auditory category learning, memory, and generalization. (Co-PI)	$7000
2020-2021	Western Strategic Support for CIHR Success Bridge Grant: Dissecting the neural components of listening effort (PI)	$25,000
2019-2020	**Compute Canada Resources for Research Groups** (RRG) Allocation for "Analysis of functional magnetic resonance imaging data from naturalistic stimulation and its application to diagnosis in epilepsy"	$6,320
2019-2020	**CFREF BrainsCAN accelerator award** (PI): The effect of musical training on speech and sound perception.	$59,600
2018-2019	**CFREF McGill-Western Collaboration Grant** (PI): "Multiscale analysis of structure/function relationships in temporal-lobe epilepsy"	$99,800
2018-2019	**CFREF BrainsCAN accelerator award** (PI: Björn Herrmann, Tier I BrainsCAN PDF): "Assessing listening with engaging, real-world auditory signals"	$74,474
2017-2020	**CFI/ORF-Infrastructure Fund Award:** New Horizons in Human Cognitive Neuroscience Research at the Brain and Mind Institute".	$3,690,305
2017-2018	**CFREF BrainsCAN accelerator award** (PI): "System-wide electrophysiological assessment of hearing."	$57,000
2017-2018	**CFREF BrainsCAN accelerator award** (PI): "Characterizing auditory cortical receptive fields."	$58,000
2017-2024	Five-year **NSERC Discovery Grant** renewal: "How voice familiarity facilitates intelligibility of degraded and masked speech"	$483,000
2016-2019	**Collaborative Health Research Projects** Grant "Rapid measures of speech-evoked brainstem activity in infants who have hearing loss: Assessing hearing aid benefit for speech sounds." (Co-Applicant; PI Susan Scollie and David Purcell)	$328,848
2016-2021	Five-year **ORF-RE** "New technologies for hearing assessment and treatment" (Co-Investigator, 10% time; PI: Prudence Allen)	$2,919,411
2016-2023	Seven-year **Canada First Research Excellence Fund** grant "BrainsCAN: Brain Health for Life" (1 of 10 Key Applicants)	$66,000,000
2015-2018	Three-year **IBM/Lockheed/Canadian Institute for Military and Veterans' Health Research** grant "Development of a field-based quantitative method for the evaluation of brain injury" (Co-Applicant)	$126,000
2014-2018	Four-year **FORTE (Swedish Research Council for Health, Working Life and Welfare)** grant "Connections between auditory and cognitive aging: Effects Effects of audiologic, cognitive, and physical exercise treatments" (Co-Applicant)	$682,000 (4.53MSEK)
2014-2017	Three-year **Collaborative Health Research Program (CHRP) Operating Grant:** "Quantitative functional magnetic resonance imaging for the management	

	of brain injuries (Principal Investigator)	$800, 013
2014-2019	Five-year **Canadian Institutes of Health Research (CIHR) Operating Grant:** "From sound to meaning: The neural and functional bases of speech perception (Principal Investigator)	$686,397
2013-2018	Five-year **Canadian Foundation for Innovation (CFI)** Leading Edge Fund (Co-Investigator)	$3,537,324
2013-2018	Five-year Canadian Institutes of Health Research (CIHR) Operating Grant: "Neural representations underlying the planning and control of object manipulation tasks" (Co-Investigator).	$698,430
2012-2017	Five-year **NSERC Discovery Grant (renewal):** "Factors that facilitate perception of degraded speech and speech in noise" (PI)	$235,000
2011-2014	Three-year **Swedish Working Council (FAS) Project Grant:** "Speech understanding in noise with hearing- impaired listeners: Training of executive functions" (Co-Investigator).	$308,800 (1.2M SEK)
2011-2016	Five-year **Canadian Institutes of Health Research (CIHR) Operating Grant:** "Perception of Audiovisual Communication Signals"(Co-Investigator).	$1,194,590
2010-2013	**NSERC Research Tools and Instruments Grant: "**Audiological and Cognitive Assessment Equipment, and Equipment for fMRI studies." (PI)	$99,559
2010-2012	Two-year **NSERC Discovery Grant Steacie Supplement**: "Cognitive factors that facilitate understanding of speech in noise by normally hearing adults" (PI)	$203,580
2008-2013	Five-year **Canadian Institutes of Health Research (CIHR) Operating Grant (renewal):** "From sound to meaning: The neural and functional bases of speech perception" (PI)	$479,265
2007-2012	Five-year **Canadian Foundation for Innovation (CFI) and Ontario Innovation Trust, Leading Edge Fund Infrastructure Award:** "Development of new assessment tools for evaluation of brain function and dysfunction."(Co-Investigator)	$14,000,000
2007-2012	Five-year **R-01NIH Operating Grant**: "Auditory Speech Processing in the Perception and Production of Vowels" (Co-Investigator)	$1,032,750 (US)
2006-2011	Five-year **CIHR Resource Grant**: "Peripheral equipment and maintenance of facility for functional resonance imaging in humans and nonhuman primates" (Co-Investigator)	$422,000
2006-2011	Five-year **NSERC Discovery Grant:** "Factors that facilitate perceptual learning of speech" (PI)	$162,925
2004-2007	Three-year **CIHR Operating Grant"**From sound to meaning: The neural and functional bases of speech perception studies using fMRI**"** (PI)	$270,000
2004-2009	Five- year **Canadian Foundation for Innovation (CFI) CRC Infrastructure Funding**. (PI)	$125,000
2004-2009	Five-year **Ontario Innovation Trust Infrastructure Funding** (CFI Matching Funds) (PI)	$125,000
2003-2004	One-year **Research Grant from the Leverhulme Trust**: "Factors that facilitate perceptual learning of speech" (with Matt Davis, Bob Carlyon, MRC CBU).	21,707 GBP
2002	**Grant from the European Science Foundation** to fund an international two-day Exploratory Workshop on "Neurobiology of communication: comparative and evolutionary perspectives on receptive language", Sept 2002, Cambridge, UK.	15,000 EUR
2001	**Grant from the Wellcome Trust** to fund an international one-day workshop "Structure-function relationships in human auditory cortex", June 2001, Cambridge, UK (with Deb Hall, MRC Institute of Hearing Research, Nottingham, UK).	10,000 GBP

PEER-REVIEWED PUBLICATIONS

h-index: 53 (53 publications with 53+ citations); 24,000+ citations in total (Google Scholar; Oct 31 2020).

Peer-reviewed papers: published or in press. (Trainees in **bold).**

107) DJ Gale, CN Areshenkoff, C Honda, IS Johnsrude, JR Flanagan, Gallivan, JR (in press) Motor planning modulates neural activity patterns in early human auditory cortex. *Cerebral Cortex* **doi:** https://doi.org/10.1101/682609xx

106) **Holmes E, To G**, and Johnsrude IS (in press). How long does it take for a voice to become familiar? Speech intelligibility and voice recognition are differentially sensitive to voice training. *Psychological Science*. 10.31234/osf.io/bm2uq

105) **Herrmann, B** & Johnsrude IS (in press) Absorption and enjoyment during listening to acoustically masked stories. *Trends in Hearing.* 10.31234/osf.io/t3smp

104) **Yasmin, S**, Purcell, D, Veeranna SA, Johnsrude IS, **Herrmann B**. (in press) A novel approach to investigate subcortical and cortical sensitivity to temporal information simultaneously. *Hearing Research*. **doi:** https://doi.org/10.1101/2020.03.03.968404

103) **Kadem M, Herrmann B**, Rodd J, Johnsrude IS (in press). Pupil dilation is sensitive to semantic ambiguity and acoustic degradation. *Trends in Hearing*. **doi:** https://doi.org/10.1101/2020.02.19.955609

102) Farahani M, Parsa V, **Herrmann B, Kadem M**, Johnsrude I, Doyle PC (2020). An auditory perceptual and pupillometric study of vocal strain in adductor spasmodic dysphonia. *Applied Sciences 10 (17), 5907*https://doi.org/10.3390/app10175907

101) **Herrmann, B** & Johnsrude IS. (2020) A model of listening engagement (MoLE). *Hearing Research.* Jun 19:108016. doi: 10.1016/j.heares.2020.108016.

100) **Herrmann B**, **Augereau T**, & Johnsrude IS (2020) Neural responses and perceptual sensitivity to sound depend on sound-level statistics. *Scientific Reports*. 10 (1), 1-12

99) **Holmes E,** Johnsrude IS. 2020) Speech spoken by familiar people is more resistant to interference by linguistically similar speech. *JEP: Learning Memory and Cognition.* 46:1465-1476. doi: 10.1037/xlm0000823.

98) **Domingo BY, Holmes E,** Macpherson, E, Johnsrude, IS. (2019). Using spatial release from masking to estimate the magnitude of the familiar-voice intelligibility benefit. *JASA.* 146 (5), 3487-3494

97) **Herrmann B, Buckland C,** Johnsrude IS. (2019) The effects of aging on neural signatures of temporal regularity processing in sounds. *Neurobiology of Aging*. 83, 73-85

96) **Domingo BY, Holmes E,** Johnsrude, IS. (2020). The benefit to speech intelligibility of hearing a familiar voice. *Journal of Experimental Psychology: Applied Jun;26(2):236-247.*

95) **Billig AJ, Herrmann B,** Rhone AE, Gander PE, Nourski KV, Snoad BF, Kovach, CK, Kawasaki H, Howard MA, Johnsrude, IS. (2019). A sound-sensitive source of alpha oscillations in human non-primary auditory cortex. *Journal of Neuroscience, 39(44): 8679–8689,* doi: 10.1523/JNEUROSCI.0696-19.2019

94) **Holmes E, Domingo YB**, Johnsrude IS (2018) Familiar voices are more intelligible even if they are not recognized as familiar. *Psychological Science, 29(10):1575-1583. doi: 10.1177/0956797618779083*

93) **Holmes E,** Folkeard P, Johnsrude IS and Scollie S. Semantic context reduces sentence-by-sentence listening effort for listeners with hearing impairment. *International Journal of Audiology, 57:7, 483-492, doi: 10.1080/14992027.2018.1432901*

92) **Herrmann B,** Johnsrude IS (2018). Neural signatures of the processing of temporal patterns in sound. *Journal of Neuroscience, Jun 13;38(24):5466-5477.* doi: 10.1523/JNEUROSCI.0346-18.2018. Epub 2018 May 17

91) **Herrmann B**, Maess B, Johnsrude IS (2018). Aging affects adaptation to sound-level statistics in human auditory cortex. *Journal of Neuroscience. Feb 21;38(8):1989-1999.* doi: 10.1523/JNEUROSCI.1489-17.2018. Epub 2018 Jan 22.

90) **Signoret C**, Johnsrude IS, Classon E, Rudner M. (2018) Working memory, form- and meaning-based predictability effects on perceived clarity of speech. *Journal of Experimental Psychology: Human Perception and Performance. Feb;44(2):277-285.* doi: 10.1037/xhp0000442

89) **Herrmann B**, Johnsrude IS (2018). Attentional state modulates the effect of an irrelevant stimulus dimension on perception. *Journal of Experimental Psychology: Human Perception and Performance. Jan;44(1):89-105.* doi: 10.1037/xhp0000432. Epub 2017 Apr 27.

88) **Holmes E**, Purcell, D, Carlyon RP, Gockel H, & Johnsrude IS. (2017) Attentional modulation of envelope following responses at lower (93-109 Hz) but not higher (217-233 Hz) modulation rates."

Journal of the Association for Research in Otolaryngology. 2018 Feb;19(1):83-97. doi: 10.1007/s10162-017-0641-9.

87) **Huyck JJ**, Johnsrude IS, Smith RH, Hawkins S. (2017) Generalization of perceptual learning of degraded speech across talkers. *Journal of Speech, Language and Hearing Research, 60:3334-3341.* doi: 10.1044/2017_JSLHR-H-16-0300.

86) **Herrmann, B,** Henry MJ, Johnsrude IS, & Obleser, J. (2016) Altered temporal dynamics of neural adaptation in the aging human auditory cortex. *Neurobiology of Aging, 45:10-22*

85) **Samson F.,** & Johnsrude IS. (2016) Effects of the constant presence of a target or masker voice on target speech intelligibility. *Journal of the Acoustical Society of America*, 139(3), 1037 PMID:27036241

84) **Wayne, RV**, Johnsrude IS. (2016). Working memory training and speech in noise comprehension in older adults. *Frontiers in Aging Neuroscience, Mar 22, 8:49 PMID:27047370*

83) **Lee, S.**, Kilmade, M., Peltsch, A., Brien, D., Coe, B., Johnsrude, IS., Munoz, DP. (2016) Neural correlates of predictive saccades. *Journal of Cognitive Neuroscience. PMID:27054397*

82) **Wayne RV**, Johnsrude IS. (2015) A review of causal mechanisms underlying the link between age-related hearing loss and cognitive decline. *Ageing Research Reviews* 23:154-66.

81) Cuddy, L, Johnsrude IS, Vanstone, A. (2015). An fMRI comparison of neural activity associated with recognition of familiar melodies in younger and older adults: an fMRI study. *Frontiers in Neuroscience.* Oct 6; 9:356 PMID:26500480

80) Sutton, K, Pukall, CF, **Wild C**, Johnsrude I, Chamberlain, S. (2015) Cognitive, psychophysical, and neural correlates of vulvar pain in primary and secondary provoked vestibulodynia: A pilot study. *Journal of Sexual Medicine,* **12**, 1283-1297.

79) **Gallivan, J**, Johnsrude, IS, Flanagan, JR. (2015). Planning ahead: Object-directed action sequences decoded from human frontoparietal and occipitotemporal networks. *Cerebral Cortex,* **26**:708-30

78) **Ramezani M,** Abolmaesumi P, Marble K, Trang H, & Johnsrude IS. (2015). Fusion analysis of functional MRI data for classification of individuals based on patterns of activation. *Brain Imaging and Behavior,* **9**, 149-161.

77) Zekveld AA, Heslenfeld DJ, Johnsrude IS, Versfeld NJ, & Kramer SE. (2014). The eye as a window to the listening brain: Neural correlates of pupil size as a measure of cognitive listening load. *NeuroImage*, **101**, 76-86.

76) **Ramezani, M,** Abolmaesumi, P, **Tahmasebi, A**, Bosma, R, Tong, R, Hollenstein, T, Harkness, K & Johnsrude, IS. (2015). Fusion analysis of depression in first episode depression: Where brain shape deformations meet local composition of tissue. *NeuroImage Clinical,* **7**, 114-121.

75) **Ramezani M,** Johnsrude IS, Rasoulian A, Bosma R, Tong R, Hollenstein T, Harkness K, Abolmaesumi P. (2014). Temporal-lobe morphology differs between healthy adolescents and those with early-onset of depression. *NeuroImage Clinical.* **6**, 145-55.

74) **Ramezani M,** Marble K, Trang H, Johnsrude IS, & Abolmaesumi, P. **(**2014). Joint Sparse Representation of Brain Activity Patterns in Multi-task fMRI Data*. IEEE Transactions in Medical Imaging,* **6**, 145-155.

73) Zekveld AA, Rudner M, Johnsrude IS, Rönnberg J. (2013). The effects of working memory capacity and semantic cues on the intelligibility of speech in noise. *The Journal of the Acoustical Society of America,* **134**, 2225-2234.

72) Johnsrude IS, **Mackey A, Hakyemez H, Alexander E, Trang HP** & Carlyon RP. (2013). Swinging at a cocktail party: Voice familiarity aids speech perception in the presence of a competing voice. *Psychological Science,* **24,** 1995-2004.

71) **Zheng ZZ,** Vicente-Grabovetsky A, MacDonald EN, Munhall KG, Cusack R, Johnsrude, IS (2013) Multi-voxel patterns reveal functionally differentiated networks underlying auditory feedback processing of speech. *Journal of Neuroscience*, **33**, 4339-4348.

70) **Wayne RV** & Johnsrude IS. (2012). The role of visual speech information in supporting perceptual learning of degraded speech. *Journal of Experimental Psychology: Applied,* **18**, 419-435.

69) **Wild CJ, Yusuf A,** Wilson D, Peelle JE, Davis MH, Johnsrude IS. (2012). Effortful listening: The processing of degraded speech depends critically on attention. *Journal of Neuroscience,* **32***,* 14010-14021.

68) **Ramezani M,** Abolmaesumi P, Marble K, **Macdonald H,** Johnsrude IS. (2012). Classification of individuals based on sparse representation of brain cognitive patterns: A functional MRI study. *Conf Proc IEEE Eng Med Biol Soc*. **2012**, 2688-91.

67) Zekveld AA, Rudner M, Johnsrude IS, Heslenfeld DJ, Rönnberg J. (2012) Behavioral and fMRI evidence that cognitive ability modulates the effect of semantic context on speech intelligibility *Brain & Language,* **122**, 103-113.
66) **Hervais-Adelman A**, Carlyon RP, Johnsrude IS, & Davis MH. (2012). Brain regions recruited for the effortful comprehension of noise-vocoded words. *Language and Cognitive Processes,* **28***,* 1145-1166*.*
65) **Huyck JJ** & Johnsrude IS. (2012) Rapid perceptual learning of noise-vocoded speech requires attention. *Journal of the Acoustical Society of America – Express Letters.* **131**, EL236-42.
64) **Wild CJ,** Davis MH, & Johnsrude IS. (2012). Human auditory cortex is sensitive to the perceived clarity of speech. *NeuroImage,* **60**, 1490-1502.
63) Rodd JM, Johnsrude IS, & Davis MH. (2012). Dissociating frontotemporal contributions to semantic ambiguity resolution in spoken sentences. *Cerebral Cortex,* **22**, 1761-1773.
62) **Tahmasebi AM,** Davis MH, **Wild CJ**, Rodd JM, **Hakyemez H,** & Johnsrude, IS. (2012*)* Is the link between anatomical macrostructure and function equally strong at all cognitive levels of processing? *Cerebral Cortex,* **22***, 1593-1603.*
61) Davis MH, Ford MA, Kherif F, & Johnsrude IS. (2011). Does semantic context benefit speech understanding through top-down processes? Evidence from time-resolved sparse fMRI. *Journal of Cognitive Neuroscience,* **23***,* 3914-32.
60) Zekveld AA, Rudner M, Johnsrude IS, Festen JM, van Beek HM, & Rönnberg J. (2011). The influence of semantically related and unrelated text cues on the intelligibility of sentences in noise. *Ear & Hearing,* **32**, E16-E25.
59) **Heinrich A,** Carlyon RP, Davis MH, & Johnsrude IS. (2011). The continuity illusion does not depend on attentional state: fMRI evidence from illusory vowels. *Journal of Cognitive Neuroscience,* **23***,* 2675-2689*.*
58) **Zheng ZZ,** MacDonald EN, Munhall KG, Johnsrude IS. (2011). Perceiving a stranger's voice as being one's own: a 'rubber voice' illusion? *PLoS ONE* **6**(4): e18655.
57) **Hervais-Adelman AG**, Davis MH, Johnsrude IS, **Taylor KJ,** & Carlyon RP. (2011) Generalization of perceptual learning of vocoded speech. *Journal of Experimental Psychology: Human Perception and Performance,* **37,** 283-295.
56) Rodd JM, Davis MH & Johnsrude IS (2010). The role of domain-general frontal systems in language comprehension: evidence from dual-task interference and semantic ambiguity. *Brain and Language,* **115,** 182-8.
55) Peelle JE, Johnsrude IS & Davis MH. (2010) Hierarchical processing for speech in human auditory cortex and beyond. *Frontiers in Human Neuroscience.* **4**, 51 (1-3).
54) **Tahmasebi AM,** Abolmaesumi P, **Wild C,** Johnsrude IS. (2010). A validation framework for probabilistic maps using Heschl's gyrus as a model. *NeuroImage .* **50**, 532-44.
53) **Kitada R**, Johnsrude IS, Kochiyama T, & Lederman, SJ. (2010). Brain networks involved in haptic and visual identification of facial expressions of emotion: An fMRI study. *NeuroImage.* **49**, 1677-89.
52) **Zheng ZZ**, Munhall KG, & Johnsrude IS. (2010) Functional overlap between regions involved in speech perception and in monitoring one's own voice during speech production. *Journal of Cognitive Neuroscience,* **22**, 1770-81.
51) **Tahmasebi AM,** Abolmaesumi P, Geng X, Morosan P, Amunts K, Christensen G & Johnsrude IS, (2009) A new approach for creating customizable cytoarchitectonic probabilistic maps without a template. In *Proceedings of the 12th International Conference on Medical Image Computing and Computer-Assisted Intervention: Part II. Lecture Notes In Computer Science;* **5762***:* 795 – 802*.*
50) **Tahmasebi AM,** Abolmaesumi P, **Zheng ZZ,** Munhall KG, & Johnsrude IS. (2009). Reducing inter-subject anatomical variation: Effect of normalization method on sensitivity of functional magnetic resonance imaging data analysis in auditory cortex and the superior temporal region. *NeuroImage,* **47,** 1522-1531.
49) Munhall KG, Macdonald EN**, Byrne SK**, & Johnsrude IS. (2009). Talkers alter vowel production in response to real-time formant perturbation even when instructed not to compensate*. Journal of the Acoustical Society of America*, **125**, 384-390.
48) **Kitada R**, Johnsrude IS, Kochiyama T, & Lederman SJ. (2009) Functional specialization and convergence in the occipito-temporal cortex supporting haptic and visual identification of human faces and body parts: An fMRI Study. *Journal of Cognitive Neuroscience*, **21**, 2027-45.

47) **Tahmasebi AM,** Johnsrude IS, Wild C, Moghari MH, & Abolmaesumi P. (2008). A statistical atlas-based technique for automatic segmentation of the first Heschl's gyrus in human auditory cortex from MR images. *Conf Proc IEEE Eng Med Biol Soc.* **1**, 3920-3.
46) **Heinrich A**, Carlyon RP, Davis MH, & Johnsrude IS (2008). Illusory vowels resulting from perceptual continuity: An fMRI study. *Journal of Cognitive Neuroscience,* **20,** 1737-5.
45) **Hervais-Adelman A**, Davis MH, Johnsrude IS, & Carlyon RP (2008) Perceptual learning of noise vocoded speech: Effects of feedback and lexicality. *Journal of Experimental Psychology: Human Perception and Performance,* **34**, 460-474.
44) **Bailey L**, Abolmaesumi P, Tam J, Morosan P, Cusack R, Amunts K, Johnsrude I. (2007). Customized cytoarchitectonic probability maps using deformable registration: primary auditory cortex. *Medical Image Computing and Computer Assisted Intervention,* **10**, 760-8.
43) Davis MH, Coleman MR, Absalom AR, Rodd JM, Johnsrude IS, Matta BF, Owen AM, Menon DK. (2007). Dissociating speech perception and comprehension at reduced levels of awareness: an fMRI study with graded propofol sedation. *Proc Nat Acad Sci,* **104**, 16032-37.
42) Balodis IM, Johnsrude, IS, Olmstead, MC (2007). Intact preference conditioning in acute intoxication despite deficient declarative knowledge and working memory. *Alcoholism: Clinical and Experimental Research*, **31**, 1800-1810.
41) Coleman MR, Rodd JM, Davis MH, Johnsrude IS, Menon DK, Pickard JD, Owen AM. (2007). Do vegetative patients retain aspects of language comprehension? Evidence from fMRI. *Brain,* **130**, 2494-507.
40) Patterson RD, Johnsrude IS (2007). Functional imaging of auditory processes fundamental to speech recognition. *Philosophical Transactions of the Royal Society London B: Biological Sciences.* **363,** 1023-1035.
39) Davis, MH & Johnsrude, IS (2007). Hearing speech sounds: Top-down influences on the interface between audition and speech perception. *Hearing Research*, **229**, 132-47.
38) Uppenkamp S[§], Johnsrude I[§], Norris D, Marslen-Wilson W, Patterson RD (2006). Locating the initial stages of speech-sound processing in human temporal cortex. *NeuroImage ,***31**, 1284-96[§] joint first authors.
37) Schwarzbauer C, Davis MH, Rodd JM, Johnsrude IS. (2006). Interleaved silent steady state (ISSS) imaging: A new sparse imaging method applied to auditory fMRI. *NeuroImage*, **29**, 774-82.
36) Owen AM, Coleman MR, Menon DK, Berry EL, Johnsrude IS, Rodd JM, Davis MH, Pickard JD. (2005). Using a hierarchical approach to investigate residual auditory cognition in persistent vegetative state. *Progress in Brain Research*, **150**, 457-71.
35) Owen AM, Coleman MR, Menon DK, Johnsrude IS**,** Rodd JM, Davis MH, Taylor K, Pickard JD. (2005). Residual auditory function in persistent vegetative state: A combined PET and fMRI study. *Neuropsychological Rehabilitation,***15**, 290-306.
34) **Cox S,** Andrade A, Johnsrude IS (2005). Learning to like: A role for human orbitofrontal cortex in conditioned reward. *Journal of Neuroscience,* **25**, 2733-2740.
33) Davis MH, Johnsrude IS, **Hervais-Adelman A, Taylor K, McGettigan C.** (2005) Lexical information drives perceptual learning of distorted speech: evidence from the comprehension of noise-vocoded sentences. *Journal of Experimental Psychology: General*, 134, 222-241.
32) Rodd JM, Davis MD, Johnsrude IS. (2005) The neural mechanisms of speech comprehension: fMRI studies of semantic ambiguity. *Cerebral Cortex,***15**, 1261-9
31) Hauk O**,** Johnsrude IS, Pulvermuller F. (2004) Somatotopic representation of action words in human motor and premotor cortex**.** *Neuron* **41**, 301-7.
30) Curran E, Sykacek P, Stokes M, Roberts S, Penney W, Johnsrude I, Owen A. (2004) Cognitive tasks for driving a brain computer interfacing system: a pilot study. *IEEE Transactions on Neural Systems and Rehabilitation.***12**, 48-54.
29) Davis MH, Johnsrude IS. (2003). Hierarchical processing in spoken language comprehension.*Journal of Neuroscience,* **23**, 3423-31.
28) Hall DA, Hart H, Johnsrude IS.(2003) Relationships between human auditory cortical structure and function**.** *Audiology & Neuro-Otology,* **8***,* 1-18.
27) Scott SK, Johnsrude IS (2003). The neuroanatomical and functional organization of speech perception. *Trends in Neurosciences,* **26**, 100-7.
26) Brett M, Johnsrude IS, Owen AM. (2002) The problem of functional localization in the human brain *Nature Reviews Neuroscience,* **3**, 243-249.

25) Hall DA, Johnsrude IS, Gonçalves M, Haggard MP, Palmer AR, Summerfield AQ, Akeroyd MA, Frackowiak RSJ. (2002) Spectral and temporal processing in human auditory cortex. *Cerebral Cortex*, 1**2**, 140-149.
24) Johnsrude IS, Giraud A-L, Frackowiak RSJ. (2002) Functional imaging of the auditory system: The use of positron emission tomography. *Audiology & Neuro-Otology,* **7***,* 251-76.
23) Owen AM, Menon DK, Johnsrude IS, Bor D, Scott SK, Manly T, Williams EJ. (2002) Detecting residual cognitive function in persistent vegetative state (PVS). *NeuroCase*, **8**, 394-403.
22) Patterson R, Uppenkamp S, Johnsrude IS, Griffiths TD. (2002) The processing of temporal pitch and melody information in auditory cortex. *Neuron*, **36**, 767-76.
21) **Cox SML**, Stefanova E, Johnsrude IS, Robbins TW, Owen AM. (2002). Preference formation and working memory in Parkinson's disease and normal ageing. *Neuropsychologia*, **40**, 317-326.
20) Gonçalves M, Hall DA, Johnsrude IS, Haggard MP. (2001). Can meaningful effective connectivities be obtained between auditory cortical regions? *NeuroImage*, 1**4,** 1353-60.
19) Griffiths T, Uppenkamp S, Johnsrude IS, Josephs O, Patterson R. (2001). Encoding of the temporal regularity of sound in the human brainstem. *Nature Neuroscience*, **4**, 633-7.
18) **Good CD**, Johnsrude IS, Ashburner J, Henson RNA, Friston KJ, Frackowiak RSJ. (2001) A voxel-based morphometric study of ageing in 465 normal adult human brains*. NeuroImage,***14**, 21-36.
17) **Good CD,** Johnsrude IS, Ashburner J, Henson RNA, Friston KJ, Frackowiak, RSJ. (2001) Cerebral asymmetry and the effects of sex and handedness on brain structure: a voxel-based morphometric analysis of 465 normal adult human brains. *NeuroImage*, **14**, 685-700.
16) Rowe JB, Owen AM, Johnsrude IS, Passingham RE (2001). Imaging the components of a planning task. *Neuropsychologia*, **39**, 315-327.
15) Giraud A-L, Lorenzi C, Ashburner J, Wable J, Johnsrude I, Frackowiak R, Kleinschmidt A. (2000). Representation of the temporal envelope of sounds in the human brain. *Journal of Neurophysiology*, **84,** 1588-1598.
14) Johnsrude IS, Owen AM, White NM, **Zhao WV**, Bohbot V. (2000) Impaired preference conditioning after anterior temporal-lobe resection in humans. *Journal of Neuroscience*, **20**, 2649-56.
13) Maguire EA, Gadian DG, Johnsrude IS, **Good CD,** Ashburner J, Frackowiak RSJ, Frith CD. (2000).Navigation-related structural change in the hippocampi of taxi drivers. *Proceedings of the National Academy of Sciences*, **97**, 4398-4403.
12) Johnsrude IS, Penhune VB, Zatorre RJ (2000) Functional specificity in right human auditory cortex for perceiving pitch direction. *Brain*, **123**, 155-163.
11) Griffiths TD, Johnsrude I, Dean JL, Green GGR. (1999). A common neural substrate for the analysis of pitch and duration pattern in segmented sound? *NeuroReport*, **10**, 3825-3830.
10)Johnsrude IS, Owen AM, **Zhao WV**, White NM. (1999). Conditioned pattern preference without awareness in humans: A novel experimental approach. *Learning and Motivation*, **30**, 250-264.
9) Johnsrude IS,Owen AM, Crane J, Milner BA, Evans AC. (1999). A cognitive activation study of memory for spatial relationships. *Neuropsychologia*, **37**, 829-841.
8) Ashburner J, Hutton C, Frackowiak R, Johnsrude I, Price C, Friston K. (1998). Identifying global anatomical differences: deformation-based morphometry. *Human Brain Mapping*, **6**, 348-357.
7) Klein D, Olivier O, Milner BA, Zatorre R, Johnsrude IS, Meyer E, Evans AC. (1997). Obligatory role of the LIFG in synonym generation: evidence from PET and cortical stimulation. *Neuroreport*, **8**, 3275-3279.
6) Milner BA, Johnsrude IS, Crane J. (1997). Right medial temporal-lobe contribution to object-location memory. *Philosophical Transactions of the Royal Society of London, B, Biological Sciences*, **352**, 1469-1474.
5) Johnsrude IS, Zatorre R, Milner BA, Evans, AC (1997). Left-hemisphere specialization for the processing of acoustic transients. *NeuroReport*, **8**, 1761-1765.
4) Johnsrude IS, Milner BA. (1994). The effect of presentation rate on the comprehension and recall of speech after anterior temporal-lobe resection. *Neuropsychologia*, **32**, 77-84.
3) Johnsrude IS, Weary DM, Ratcliffe L, Weisman R. (1994). The effect of motivational context on conspecific song discrimination by Brown-headed cowbirds (*Molothrus ater).Journal of Comparative Psychology*, **108**, 172-178.
2) Hurly TA, Weisman RG, Ratcliffe L, Johnsrude IS. (1991). Absolute and relative pitch production in the song of the white-throated sparrow *(Zonotrichia albicollis*). *Bioacoustics*, **3**, 81-91.

1) Weisman RG, Ratcliffe L, Johnsrude IS, Hurly TA. (1990). Absolute and relative pitch production in the song of the black-capped chickadee (*Parus atricapillus*). *The Condor*, **92**, 118-124.

Preprints, Submitted and In-revision manuscripts:

113) **Zheng ZZ,** Munhall K, & Johnsrude IS A common perceptual inference for cross-modally induced illusions of body schema **doi:** https://doi.org/10.1101/066159

111) **Irsik VC, Alamanaseer A,** Johnsrude IS, Herrmann B (submitted) Aging fundamentally alters cortical responses to amplitude envelopes of sounds. *Journal of Neuroscience*

110) **Ritz H,** Wild C, Johnsrude IS. (submitted) Parametric cognitive load reveals hidden costs in the neural processing of perfectly intelligible degraded speech. Nature Neuroscience. https://doi.org/10.1101/2020.10.02.324509

109) **Holmes E**, Johnsrude IS (submitted). Speech-evoked brain activity is more robust to competing speech when it is spoken by someone familiar. Submitted to *eLIfe* **doi:** https://doi.org/10.1101/2020.03.03.975409

108) **Herrmann B, Araz K,** Johnsrude, IS (submitted) Sustained neural activity correlates with rapid perceptual learning of auditory patterns. *Journal of Neuroscience* **doi:** https://doi.org/10.1101/850339

107) **Van Hedger, SC**, Johnsrude IS, Batterink, LJ (submitted). Prior real-world experience influences non-linguistic statistical learning. *Cognition* **doi:** 10.31234/osf.io/yscn8

Books

3) Schacter DL, Gilbert DT, Nock M, & Johnsrude IS (2020). Psychology Fifth Canadian Edition, Macmillan Publishers.

2) Schacter DL, Gilbert DT, Nock M, Johnsrude IS, Wegner DM, (2017). Psychology Fourth Canadian Edition, Worth Publishers.

1) Schacter DL, Gilbert DT, Wegner DM, Nock M, Johnsrude IS (2014). Psychology Third Canadian Edition, Worth Publishers.

Book chapters

15) **Van Hedger, SC** & Johnsrude IS (in press) Speech perception under adverse listening conditions. To appear in L. Holt and A. Lotto (eds.) Handbook of Auditory Research: The Auditory Cognitive Neuroscience of Speech Perception.

14) Johnsrude IS & Buchsbaum B (2016). Representation of speech. In M. Gareth Gaskell & Jelena Mirković (eds) Speech Perception and Spoken Word Recognition. (Series: Current Issues in the Psychology of Language (Editor: Trevor Harley) Taylor & Francis.

13) Johnsrude IS & Rodd JM (2015) Factors that increase processing load when listening to speech. In Hickok G & Small S(Eds) Neurobiology of Language, Elsevier.

12) Simons JS & Johnsrude, IS (2014). The Temporal Lobe. Encyclopedia of the Neurological Sciences (2nd ed) (Eds. Aminoff, M. & Daroff, R). Academic Press, San Diego.

11) Johnsrude IS, Hauk, O. (2014). Neuroimaging: Techniques for examining human brain function. In Braisby, N (ed). Cognitive Psychology: A Methods Companion, Second Edition. Oxford: Oxford University Press.

10) Talavage, T.M., Johnsrude, I.S., Gonzalez Castillo J., (2014).Chapter 6: Hemodynamic Imaging: fMRI and PET. In: Springer Handbook of Auditory Research. Human Auditory Cortex (eds T. Overath& D. Poeppel) Series Editors Richard R. Fay and Arthur N. Popper

9) Carlyon R.P, Thompson S.K, **Heinrich A**, Pulvermuller F, Davis M.H, Shtyrov Y, Cusack R, & Johnsrude I.S. (2010). Objective measures of auditory scene analysis. In Auditory Physiology, Perception and Models, Edited by E. Lopez-Poveda. Springer, New York.

8) Patterson RD, Johnsrude IS (2010). Functional imaging of auditory processes fundamental to speech recognition. In *The perception of speech: from sound to meaning*. BCJ Moore, W Marslen-Wilson & L. Tyler, (Eds). Oxford: Oxford University Press. Pp 171-193.

7) Johnsrude IS, Hauk, O. (2005). Neuroimaging: Techniques for examining human brain function. In Braisby, N (ed). Cognitive Psychology: A Methods Companion. Oxford: Oxford University Press.

6) Johnsrude IS, Davis MH, **Hervais-Adelman, A** (2005). From sound to meaning: Hierarchical processing in speech comprehension. D. Pressnitzer, A. de Cheveigné, S. McAdams, and L. Collet (Eds) Auditory Signal Processing: Physiology, Psychoacoustics, and Models. New York: Springer-Verlag. pp 251-258.

5) Graham KS, Johnsrude IS, Simons JS. (2003). The Temporal Lobe. Encyclopedia of the Neurological Sciences (Eds. Aminoff, M. & Daroff, R.), Volume 4, 486-495, Academic Press, San Diego.
4) Johnsrude IS. (2001). Neuropsychological consequences of temporal-lobe lesions. In *Cognitive deficits in brain disorders*. J. E. Harrison & A. M. Owen (Eds.). London: Martin Dunitz Publishers. pp 37-58.
3) Owen AM, Epstein R, Johnsrude IS. (2001). fMRI: Applications in Cognitive Neuroscience In: *Functional Magnetic Resonance Imaging of the Brain:Methods for Neuroscience*. P.M. Matthews, P. Jezzard& S.M. Smith (Eds.). Oxford: Oxford University Press. P 311-327
2) Johnsrude IS, Giraud A-L, Morosan P, Brett M, Owen AM, Zilles K. (2000). Functional Imaging of the auditory system: The use of positron emission tomography. *Proceedings of the 4th European Congress of Oto-Rhino-Laryngology Head and Neck Surgery.* K. Jahnke& M. Fischer (Eds.). Bologna: Monduzzi Editore, pp 49-58.
1) Milner B, Johnsrude I, Crane J. (1998). Medial temporal-lobe involvement in spatial working memory.In *Parietal and hippocampal contributions to spatial cognition*. J. M. O'Keefe & N. Burgess (Eds.). Oxford: Oxford University Press. pp 247-258.

NON PEER-REVIEWED PUBLICATIONS

1) Johnsrude IS, **Holmes E,** Deeks J **(2018).** Two different ways familiar-voice information can be used. *Canadian Audiologist, 5 (6).* https://www.canadianaudiologist.ca/issue/volume-5-issue-6-2018/

CONTRIBUTIONS TO SERVICE

Academic Community Service

2018-	Member, CIHR Behavioural Sciences C Review Panel (Scientific Office Spring 2018)
2017-	Member, College of Reviewers, CIHR
2017-2020	Member, Biological Systems and Functions Evaluation Group, NSERC.
2016-2018	Association for Research in Otolaryngology Annual Meeting Program Committee
2015-2017	Speakers Committee, Auditory Cortex Meeting, Banff 2017
2010-2014	Member, CIHR Behavioural Sciences C Review Panel
2012	Chair, Ontario Graduate Scholarship (OGS) Adjudication Panel.
2011-2014	Member, Killam Selection Committee, Canada Council for the Arts
2011-2014	Treasurer, Lake Ontario Visionary Establishment (L.O.V.E.)
2010-2014	Treasurer, International Society for Behavioural Neuroscience (ISBN)
2010-2012	Organizing Committee Member, International Cognitive Hearing Science for Communication meetings (June, 2011, June 2013, Linköping, Sweden)
2011-2012	Conference co-organizer, 41st Annual Meeting, L.O.V.E (meeting held Feb 2012)
2011-2012	Canadian Association for Neuroscience (CAN) Annual Meeting Organizing Committee (meetings in May 2012, May 2013)
2008-2010	Ontario Min Res Innovat Early Research Award Selection Panel (Chair 2010)

Departmental and University Service

2019-present	Chair, BMI Steering Committee
2019-2020	Member, Western Neuroscience Institute Implementation Oversight Committee
2019-2021	Member, Animal Cognition Search Committee, Department of Psychology
2019	Chair, CFREF BrainsCAN Human Cognition and Sensorimotor Core Committee, Western
2018-2019	Workload Committee, Communication Sciences and Disorders, Western University
2018-2019	Psychology Graduate Program Committee
2017-present	Neuroscience Graduate Program Committee
2017-2018	Chair of Western CFREF BrainsCAN Training Committee, Western University
2017	Workload and Resource Planning Committee, Department of Psychology, Western University
2017-present	Advisory Committee for Postdoctoral Affairs
2017	CERC Position Search Committee, Department of Psychology, Western University
2016-present	University Research Board, Western University
2016-present	Brain Imaging Research Centre (BIRC) Steering Committee, Western University

2016-2019	Member, Brain and Mind Institute Steering Committee, Western University
2016-2017	Rotman Institute of Philosophy Tier I CRC Search Committee, Western University
2015-2018	Graduate Program Committee, School of Communication Sciences and Disorders, Western University
2015-2017	Undergraduate Curriculum Committee, Department of Psychology, Western University
2015	Cognitive Neuroscience Cluster Junior Positions Search Committee, Western University
2015-present	Non-Medical Research Ethics Board, Western University
2015-2016	Associate Vice-President Research Search Committee
2014-2015	Undergraduate Curriculum Committee, Psychology Department Western University
2014-2016	Rotman Institute of Philosophy Steering Committee, Western University
2012	Member, Clinical Position Search Committee, Department of Psychology Queen's
2011-2014	University Promotions Committee, Queen's
2011-2014	Undergraduate Psychology Curriculum committee and Faculty advisor
2011-2013	Member, Senate Committee for Academic Development (SCAD)
2011-2012	Member, Queen's University Research Community Committee (VP Research Office)
2010-2012	Chair, Psychology 100 Blended Design Advisory Group
2010-2013	Member, Centre for Neuroscience Studies Executive Committee
2010-2013	Women in Science and Engineering (WISE) Queen's Chapter Faculty Mentor
2007-2011	Trustee and Faculty Representative, Queen's University Board of Trustees.
2007-2013	Member, Centre for Neuroscience Studies Education and Training Committee
2007-2010	Chair, Departmental Research Ethics Board
2007	Queen's Internal CFI Leaders Opportunity Fund Reviewer
2007, 2008	Queen's Chancellor's Research Award Reviewer
2005-2012	Reviewer for Queen's Major Entrance Awards
2004-2010	Member, Centre for Neuroscience Studies MR Facility Management Committee
2004-2012	Annual "Prof Talk" presentation during Undergraduate Orientation week.
2004-2007	Member, Departmental Research Ethics Board
2005-2006	Member, Cognitive Position Search Committee, Department of Psychology

Peer-review activities

2019 -	Reviewing Editor, eLife (Open Access)
2019 -	Senior Editor, *Neurobiology of Language,* MIT Press
2013-2017	Section Editor (Language) *Neuropsychologia,* Elsevier.

Reviewer for journals including:

Annals of Neurology; Archives of General Psychiatry; Archives of Neurology; Brain; Cerebral Cortex; European Journal of Neuroscience; Journal of Cognitive Neuroscience; Journal of Experimental Psychology: General; Journal of Neuroscience; Nature Neuroscience; NeuroImage; Neuropsychologia; Psychological Science; Science; Trends in Cognitive Sciences; Journal of the Acoustical Society of America; Journal of the Association for Research in Otolaryngology.

Reviewer of grant applications for:

European Research Council (ERC), Medical Research Council (MRC), UK; Biotechnology and Biological Sciences Research Council (BBSRC), UK; Economic and Social Research Council (ESRC); The Scottish Executive; National Science Foundation, USA; Canadian Institutes of Health Research (CIHR); National Sciences and Engineering Research Council (NSERC); Netherlands Organization for Scientific Research (NWO, the Dutch Research Council); Medical Research Fund of Western Australia.

Professional Affiliations

Association for Research in Otolaryngology (ARO)
Canadian Society for Brain, Behaviour and Cognitive Science (CSBBCS)
International Society for Behavioural Neuroscience (ISBN) (Treasurer, 2010 - 2014)
Society for Neuroscience (SfN)
Global Young Academy

INVITED WORKSHOP/WORKING GROUP PARTICIPATION

3) Workshop: Opportunities in Computational Infrastructure and Methods for Cognitive Neuroscience. University of Wisconsin-Madison, Aug 16-18 2017.

2) Workshop on Open Data/Data Sharing, organizing by Brain Canada, Sept 2016. I was invited to participate in this small (~50 people) workshop to brainstorm a new RFP ($10.1 M CAD) that Brain Canada planned to develop around open data and data sharing.

1) Workshop on "Listening in 2030" organized by Starkey Research, Berkeley California, Sept 2016. I was invited to participate in this small (~70 people) workshop to brainstorm the future of hearing prostheses, along with other auditory neuroscientists, engineers, and personnel from Google and Apple.

INVITED PRESENTATIONS

Talks to Lay Audiences

Keynote speaker. *Did you say 'choir practice' or 'chiropractor'? Everyday mishearings and how they may relate to psychosis.* Discover Robarts public outreach event, London ON Feb 15, 2017.

Keynote speaker. *Did you say 'choir practice' or 'chiropractor'? What everyday mishearings tell us about how the brain perceives speech.* Society for Learning in Retirement London Founder's Day, London ON Feb 2017.

Keynote speaker. *Four short stories about brain plasticity.* Society for Learning in Retirement London Founder's Day, London ON Feb 2015.

Conference Presentations (including Invited Addresses) and Organization

48. Invited speaker Symposium for Cognitive Auditory Neuroscience, Carnegie-Mellon University, Pittsburgh PA July 30-31 2020 (Cancelled due to COVID-19).
47. Invited speaker Auditory System Gordon Research Conference "Preventing Loss and Recovering Function of the Auditory System), Bryant University, RI, USA July 12-17, 2020 (Cancelled due to COVID-19).
46. Invited speaker Lyon Summer School "Hearing in Noise" 15-17 June, 2020 (Cancelled due to COVID-19).
45. Invited speaker *Listening effort assessed using engaging, naturalistic materials.* 179th Meeting Acoustical Society of America, May 11-15, Chicago USA. (cancelled due to COVID-19).
44. Invited speaker *Listening effort and listening engagement* Trans-Tasman Online Conference 2020, organized by the Audiology Australia and the New Zealand Audiological Society. June 1, 2020.
43. Invited speaker *Fifty years of presurgical language mapping.* Our Brains Our Future Symposium to celebrate the 50th anniversary of the Clinical Neurological Sciences Department, University of Western Ontario, London, Oct 18, 2019
42. Invited speaker *How attention modulates processing of mildly degraded speech to influence perception and memory.* The Royal Society meeting: Attention to Sound, Chicheley Hall, Bucks UK, Nov 14-15, 2018
41. Invited speaker *Knowledge-guided hearing: the benefit of familiar voices.* 21st Annual Canadian Academy of Audiology Conference, Niagara Falls, Ontario, October 17 – 20, 2018.
40. Invited speaker S*peech perception in challenging listening conditions.* Gordon Research Conference Neurobiology of Cognition: Neural Circuits Supporting Cognitive Function, Newry, ME, July 22-27, 2018
39. Invited speaker *Cognitive mechanisms and brain signatures underlying the perception of sound objects.* Rovereto Workshop on Concepts Actions and Objects: Functional and Neural Perspectives. Rovereto, Italy, May3 – 5, 2018
38. Invited speaker *The cognitive demands imposed by noisy and ambiguous speech.* Hearing 4 All Symposium, Hannover, Germany, Nov 3-5, 2017.
37. Invited speaker. *Knowledge, attention and effort in speech perception.* World Audiological Summit (Widex) 2017, May 3-6, 2017 Copenhagen, Denmark
36. Invited speaker. *Listening effort, and the cognitive demands imposed by noisy and ambiguous speech.* 33rd World Congress of Audiology 2016, Sep 18-21, 2016.
35. Plenary speaker. *The cognitive demands imposed by noisy and ambiguous speech.* 16th International Clinical Phonetics and Linguistics Association Conference June 15–18, 2016

34. Invited speaker. *Enhanced recognition memory for spectrally degraded sentences.* Association for Research in Otolaryngology 39th Association for Research in Otolaryngology Midwinter Meeting, February 2016 San Diego, CA, USA
33. Keynote speaker. Epilepsy Research Day *What can we learn from nonhuman primate models about the neural organization of language?* London Health Sciences Centre, London ON Nov 2015.
32. Invited speaker. *Listening in complex environments.* Canadian Academy of Audiology Annual Conference and Exhibition, Niagara Falls, Canada, Oct 2015.
31. Invited speaker. *Effortful listening: perception and learning of degraded speech depend critically on attention.* Acoustical Society of America Spring 2015 Meeting Pittsburgh PA USA, May 2015.
30. Invited speaker. *Integrating sight and sound to facilitate comprehension of noisy and degraded speech*. International Multisensory Research Forum 2015, Pisa Italy, June 2015.
29. Invited speaker *The role of prediction and attention in speech perception.* Canadian Association for Neuroscience Annual Meeting, Montreal Canada, May 2014.
28. Invited speaker *Effortful listening: Assessing processing demands when listening to masked or degraded speech.* Signal and Noise Along the Auditory Pathway Workshop: Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany, Dec 2013.
27. Invited speaker *Functional magnetic resonance imaging as a tool to study the brain organization supporting hearing and communication.* HEAD/Karolinska Institute Autumn Workshop: Modern Techniques in Auditory and Communication Sciences. Stockholm, Sweden, Oct 2013.
26. Invited speaker *Effortful listening: perception and learning of degraded speech depends critically on attention.* Second International Cognitive Hearing Science for Communication meeting. Linköping, Sweden, June 2013.
25. Keynote speaker *Effortful listening: perception and learning of degraded speech depends critically on attention.* Conference on Implantable Auditory Prostheses. Lake Tahoe, USA, July 2013.
24. Invited speaker *Morphological and phonological complexity in Polish: fMRI evidence that morphemes, but not phonemes and syllables, are distinctly represented in the brain. In:* Multidisciplinary studies of lexical processing: A workshop for William Marslen-Wilson. MRC Cognition and Brain Sciences Unit, Cambridge UK July 2011.
23. Invited speaker *Prediction and speech intelligibility* First International Cognitive Hearing Science for Communication meeting, Linköping, Sweden, June 2011.
22. Invited symposium speaker *Prediction and speech intelligibility*. Canadian Association for Neuroscience, Quebec City, Quebec, May 2011.
21. Invited speaker *The intelligibility of degraded speech and speech in noise: Brain substrates and cognitive facilitation,* 40th L.O.V.E conference, Niagara-on-the-lake, Ontario, Feb 2011
20. Invited speaker *The use of probability maps to quantify auditory cortical fMRI activity.* Advances and Perspectives in Auditory Neurophysiology (Society for Neuroscience Satellite Meeting), San Diego, Nov 12, 2010
19. Invited speaker *The ways in which context and knowledge can assist speech comprehension, especially in challenging listening conditions.* KVIT 2010: Cognitive Science and Information Technology conference, May 6th 2010. University of Linköping, Linköping, Sweden.
18. Invited speaker *How context and knowledge aid speech comprehension.* Nobel Forum: The Hearing Brain. October 22, 2009.Karolinska Institute, Stockholm, Sweden.
17. Invited speaker *The ways in which context and knowledge can assist speech comprehension, especially in challenging listening conditions.* Aging and Speech Communication: Third International and Interdisciplinary. Research Conference. October 12-14, 2009. Indiana University. Bloomington.
16. Slide session chairperson *Processing of vocalizations, speech and music*. International Conference on Auditory Cortex: Current Concepts in Human and Animal Research. Magdeburg Germany Aug 29-Sep 2 2009
15. Slide session speaker *FMRI evidence that illusory continuity of vowels does not depend on attentional state.* Association for Research in Otolaryngology 32nd Association for Research in Otolaryngology Midwinter Meeting, February 2009 Baltimore, MD, USA.
14. Slide session speaker *Effects of voice familiarity and age on attention to one of two simultaneous talkers.* Acoustics '08, joint meeting of the Acoustical Society of America, the European Acoustical Society and the Societé Française d'Acoustique, in Paris France, June 30-July 4 2008.

13. Symposium organizer *From sound to speech: Imaging the auditory-speech interface* Organization for Human Brain Mapping Annual Meeting, Florence, June 2006.
12. Symposium co-organizer *How is speech special? Multimodal aspects of speech perception* at the EPS (Experimental Psychological Society)/CSBBCS Meeting. Funded by the EPS. Montreal, July 2005.
11. Slide session Chairperson and Speaker Language III Slide Session at the Annual Society for Neuroscience Meeting, San Diego Lecture: *Functional connectivity between posterior temporal and frontal regions is modulated by sentence intelligibility.* Oct 2004.
10. Invited speaker British Psychological Society Meeting symposium: Functional imaging studies of speech and music. *Relationship between pitch processing and vowel perception: Evidence from fMRI*. Sept 2004.
9. Invited speaker. Perspectives on specific linguistic functions of prefrontal cortex. Institute of Cognitive Neuroscience, London UK. *Multiple processing streams in speech comprehension.* May 2004.
8. Invited speaker. Speech and complex sound processing, Institute of Cognitive Neuroscience, London UK (cancelled). *Hierarchical processing in spoken language comprehension*. June 2004.
7. Invited speaker. International Symposium on Hearing (ISH) *From sound to meaning: Hierarchical processing in speech comprehension*. Dourdan, France, August 2003.
6. Symposium co-organizer *Functional organization of auditory cortex* at Association for Research in Otolaryngology Annual Meeting, Feb 2003.
5. Principal workshop organizer of two-day international meeting: *Neurobiology of communication: comparative and evolutionary perspectives on receptive languag*e. Sought and obtained funding from the European Science Foundation, Cambridge UK, Sept 2002.
4. Workshop co-organizer and speaker *Structure-function relationships in human auditory cortex*. One-day international meeting for which we obtained funding from The Wellcome Trust, Cambridge UK, Lecture: *Locating activation relative to Heschl's gyrus and primary auditory cortex* June 2001
3. Invited tutorial lecturer. 4th European Congress of Oto-Rhino-Laryngology Head and Neck Surgery Berlin. *Functional imaging of the auditory system: the use of positron emission tomography (PET)* May 2000
2. Invited tutorial lecturer 4th European Congress of Oto-Rhino-Laryngology Head and Neck Surgery, Berlin *Functional imaging of the auditory system: the use of functional magnetic resonance imaging*, May 2000.
1. Speaker in slide session. Oral presentation at the Annual Meeting of the Eastern Psychological Association, New York, NY USA.*The effect of presentation rate on the comprehension and recall of speech after anterior temporal-lobe resection.* Mar 1992.

Invited Lectures at Academic Institutions

54. 08/10/20 Workshop in Cognitive Hearing (CogHear) presentation "What is Listening Effort?" https://sites.google.com/view/coghear2020/home
53. 19/05/20 Cognitive Science Colloquium, CNRS, Paris (Rescheduled for remote presentation in Oct 2020 due to COVID-19)
52. 21/01/19 *The cognitive demands imposed by noisy, masked, and degraded speech.* Department of Cognitive Neuroscience, Maastricht University, The Netherlands.
51. 26/04/18 *The benefit to speech perception of hearing a familiar talker*. Centre for Research on Language Mind and Brain, McGill University, Montreal QC.
50. 02/03/2018 *Changing views of language in the brain.* Neuropsychiatry Group Seminar, Department of Psychiatry, Western University.
49. 16/05/2017 *Knowledge, attention and effort in speech perception.* Seminar at Kent State University, Speech Pathology and Audiology, Kent, Ohio USA.
48. 17/11/2016 *How attention and sound quality affect how well we understand and remember speech.* Chaucer Club Seminar, Medical Research Council Cognition and Brain Sciences Unit, Cambridge, UK
47. 22/08/2016 *Speech perception and memory depend on on acoustic quality and attentional state.* Department of Psychology. University of Oxford, Oxford UK.
46. 10/06/2016 *Knowledge-guided perception of speech.* Hearing Colloquium Copenhagen, Technical University of Denmark, Lyngby, DK.
45. 22/04/2016 *The cognitive demands imposed by noisy and ambiguous speech.* University of Maryland, College Park, MD, USA.

44. 28/01/2015 *Listening effort and cognitive load in speech perception.* University of Guelph, Guelph ON Canada.
43. 08/05/2015 *Speech processing in the brain: Substrates of vocal-motor control and the cognitive facilitation of comprehension*. University of Iowa, Iowa City, Iowa, USA
42. 16/01/15 *The hierarchical organization of speech perception in the human brain*. Anatomy and Cell Biology, Western University, London, Canada.
41. 12/2014 *Factors that facilitate speech perception.* Duke University, Durham, NC USA
40. 09/2014 *What is listening effort?* Boston University, Boston, MA USA.
39. 09/2013 *Effortful listening: Assessing the increase in processing demands when listening to degraded speech*. Western University, London, Canada.
38. 09/2013 *Some ways in which knowledge facilitates comprehension of noisy or degraded speech.* Western University, London, Canada.
37. 05/2013 *Cognitive neuroscience of communication and hearing* Cambridge University, Cambridge UK
36. 01/2013 *Attention and knowledge, and comprehension of degraded speech.* University of Toronto, Mississauga.
35. 11/2012 *How attention influences auditory perceptual organization and speech comprehension in difficult acoustic conditions.* École d'orthophonie et d'audiologie, Université de Montréal
34. 04/2012 *How what you know makes it easier to understand speech in noise* Neuroscience Graduate Diploma Program Seminar, York University
33. 04/2011*The price of puns: Does the presence of semantic ambiguities in speech increase cognitive load?* Department of Psychology, University of Toronto
32. 03/2011*The price of puns: Does the presence of semantic ambiguities in speech increase cognitive load?* Vrije Universiteit (VU University) Medical Centre, Amsterdam, The Netherlands
31. 03/2011*The price of puns: Does the presence of semantic ambiguities in speech increase cognitive load?* Centre for Languages and Literature, Lund University, Sweden
30. 03/2011*The intelligibility of degraded speech and speech in noise: Brain substrates and cognitive facilitation.* Montreal Neurological Institute, McGill University
29. 10/2010 *Some ways that knowledge and context can assist speech comprehension.* University of Ottawa.
28. 10/2010 *Intelligibility of degraded speech and speech in noise: brain substrates and cognitive facilitation*. University of Texas at Houston.
27. 06/2010 *Some ways that knowledge and context can assist speech comprehension.* Linnaeus Centre for Hearing and Deafness Graduate School 3rd Summer Workshop.
26. 10/2009 *How knowledge and experience facilitate understanding of speech in noise.* Chaucer Club talk, Medical Research Council Cognition and Brain Sciences Unit, Cambridge UK.
25. 12/2008 *Perception of degraded speech and speech in noise: neural bases and cognitive facilitation.* University of Linköping, Sweden.
24. 11/2008 *Friends and strangers at the cocktail party: How learning can aid speech comprehension.* University of Edinburgh, UK
23. 11/2007 *Voice familiarity and perceptual learning facilitates speech comprehension: Under what conditions, and how?* University of Guelph.
22. 09/2007 *Voice familiarity facilitates speech comprehension: Under what conditions, and how?*Medical Research Council Cognition and Brain Sciences Unit, Cambridge UK.
21. 07/2007 *Factors that facilitate comprehension of degraded speech: perceptual learning and voice familiarity* Hearing Research Centre at Boston University, Boston MA USA.
20. 04/2005 *Multiple streams of processing in speech comprehension*. Research Laboratory of Electronics, Massachusetts Institute of Technology, Boston, MA USA.
19. 02/2005 *Multiple streams of processing in speech perception*. Montreal Neurological Institute, McGill University, Canada
18. 01/2005 *Multiple streams of processing in speech perception*. National Institute of Deafness and Communication Disorders, National Institutes of Health, Bethesda, Maryland, USA.
17. 03/2003;03/2004 *Neuroimaging techniques as tools to investigate cognition.* Cambridge-MIT Institute
16. 06/2002 *Hierarchical processing in spoken language comprehension.* University of Sussex, Brighton, UK (cancelled due to pregnancy complications)
15. 06/2002 *Hierarchical processing in auditory cortices for the processing of complex sound.* Max Planck Institute for Biological Cybernetics, Tübingen, Germany (cancelled due to pregnancy complications)

14. 05/2002 *Learning to like: Investigating preference formation in humans.*1st Special Interest Meeting on Human Evaluative Conditioning, University of Leuven, Belgium.
13. 01/2002 *Hierarchical organization of auditory cortices for the processing of complex sound and speech: evidence from neuroimaging*. MRC Institute of Hearing Research, Nottingham
12. 01/2002 *Learning to like: Brain mechanisms of conditioned reward.* University of Sussex, Brighton, UK.
11. 01/2002 *Hierarchical organization of auditory cortices for the processing of complex sound and speech: evidence from neuroimaging.* Department of Psychology, University of Wales, Bangor.
10. 11/2001*A functional magnetic resonance imaging battery for preoperative mapping of motor, motor planning and language function in the cortex.* British Institute of Radiology, London UK,
9. 10/2000 *The use of functional imaging for the mapping of language in neurosurgical candidates.* British Academy of Speech Pathology Special Interest Group meeting.
8. 01/2000 *Learning to like: Neuropsychology and aging effects in preference conditioning*. Institute of Cognitive Neuroscience, University College London.
7. 02/1999 *Hemispheric asymmetries in the function of cortical auditory areas*. MRC Cognition and Brain Sciences Unit, Cambridge UK
6. 09/1999 *Presurgical mapping of language.* Chalfont Centre for Epilepsy, Chalfont-St Peter London UK
5. 09/1999 *Functional specialization in human auditory cortex.*Rotman Research Institute, University of Toronto.
4. 09/1999 *Learning to like: Brain mechanisms of conditioned preference.* Stanford Brain Research Institute, Stanford University, California.
3. 06/1999 Frackowiak, R. S. J. F., Johnsrude, I. S., Kiebel., S. McGonigle, D. Good, C., &Ashburner, J. *Brain function and cytoarchitectonics: Insights from functional neuroimaging.* Invited talk at*:* First Vogt-Brodmann symposium: Perspectives of architectonic brain mapping. C. und O. Vogt Institüt für Hirnforschung, Heinrich Heine Universität, Düsseldorf, Germany, 20-21 June.
2. 02/1999 *Underlying bases of the left-hemisphere specialization for speech perception.* Department of Psychology, University of Hertfordshire.
1. 02/1996 *Investigating speech-relevant hemispheric specialization in cortical auditory areas.*Functional Imaging Laboratory, Wellcome Department of Cognitive Neurology, London UK.

CONTRIBUTIONS TO TEACHING AND TRAINING

Supervision and Training

My work is interdisciplinary, involving cognitive psychology, neuroscience, computer science, and engineering, and trainees come from diverse backgrounds. This results in a rich environment where students learn from, and teach, their peers with different skill sets, as is evident in the excellent publication record of trainees under my supervision; and their success at finding careers.

Postdoctoral Supervision:

2019 -	Aysha Motala (PhD Cardiff University)
2019 -2020	Chelsea Ekstrand (PhD Saskatchewan; cosupervision with Jody Culham) Assistant Professor, University of Lethbridge, Canada
2018 - 2020	Stephen Van Hedger (PhD University of Chicago) Assistant Professor, Huron College, Western University, Canada
2018 -	Vanessa Irsik (PhD University of Nevada Las Vegas)
2018-2019	Andrew Dykstra (PhD Massachusetts Institute of Technology) Assistant Professor, Engineering, University of Miami, USA
2016-2017	Alexander Billig (PhD Cambridge University) Postdoctoral Fellow, University College London, UK
2016-2016	Conor Wild (PhD Queen's University) Scientist, Cambridge Brain Sciences, Toronto, Canada
2015-2016	Takashi Mitsuya (PhD Queen's University; cosupervision with David Purcell)
2015-2020	Björn Herrmann (PhD University of Leipzig) Assistant Professor, U of Toronto (Rotman Res Inst), Canada
2015-2018	Emma Holmes (PhD University of York)

Postdoctoral Fellow, University College London, UK

2012-2016 Clarisse Mark (PhD McGill; cosupervised by Doug Munoz)

2011-2016 Fabienne Samson (PhD Université de Montréal)
Research Coordinator, McGill University, Canada

2011-2014 Carine Signoret (PhD Lyon; cosupervision with Mary Rudner, Linköping University).
Assistant Professor, University of Linköping, Sweden

2010-2013 Julia Huyck (PhD Northwestern)
Associate Professor, Kent State University, USA

2010-2012 Adriana Zekveld (PhD Linköping University; cosupervision with Mary Rudner, Linköping University
Senior Researcher, VU Medical Centre, Amsterdam, Netherlands

2005-2008 Antje Heinrich (PhD University of Toronto)
Senior Lecturer, University of Manchester, UK

Graduate Supervision:

2021 - Bruno Mesquita (MSc Neuroscience)
2020 - Joseph Rovetti (MSc Psychology)
2020 - Jaimy Hannah (PhD Psychology)
2019 - Sonia Varma (PhD Neuroscience)
2019 - Madison Tutton (PhD Psychology)
2019 - Sarah Klapman (MSc Psychology, cosupervision with Jessica Grahn)
2019 - Hana Abbas (MSc Clinical Psychology)
2018 - Caroline Mantei (MSc Clinical Psychology)
2018 - Matthew Bain (MSc Neuroscience)
2017-2019 Mason Khadem (MSc Neuroscience)
2017-2019 Sonia Varma (MSc Psychology)
2017-2019 Mark O'Reilly (MESc Biomedical Engineering)
2017- Chad Buckland (MSc Neuroscience)
2016-2020 Nargess Ghazaleh (MSc Neuroscience)
2016-2018 Ana-Bianca Popa (MSc Neuroscience)
2015-2017 Alenka Bullen (MSc Neuroscience)
2014-2019 Ysabel Domingo (PhD Psychology)
2014-2016 Harrison Ritz (MSc Psychology)
2013-2015 Eren Gultepe (PhD Psychology; discontinued)
2012-2018 Dora Ladowski (PhD Clinical Psychology, MSc awarded 2014)
2011-2014 Mahdi Ramezani (PhD, Computer Engineering; UBC; co-supervised by Purang Abolmaesumi, UBC
2011-2012 Rob Fraser (MEng, Mechanical Engineering; co-supervised by Chris Mechefske)
2008-2010 Graham Raynor (MSc Psychology)
2008-2016 Rachel Wayne (PhD Clinical Psychology Student, MSc awarded 2010)
2007-2012 Emily Hawken (PhD Neuroscience; co-supervised by Rick Beninger)
2006-2012 Conor Wild (PhD, Neuroscience)
2005-2012 Zhuo Zheng (PhD Neuroscience, MSc awarded 2008)
2006-2010 Amir Tahmasebi (PhD Computing; cosupervised by Purang Abolmaesumi).
2006-2008 Heather (MacDonald) Trang (MSc Neuroscience)
2006-2008 Lara Bailey (MSc Computing; cosupervised by Purang Abolmaesumi)
2006-2007 Stacie Byrne (MSc Psychology; cosupervised by Kevin Munhall)
2000-2004 Sylvia Cox, PhD (Cambridge University)

Undergraduate Research Supervision (Honours Thesis Projects):

2019-2020 Raphael An (BScH, Neuroscience, Western University)
2019-2020 Brandon Yip (BScH, Psychology, Western University)
2018-2019 Tiffany Leung (BScH, Neuroscience, Western University)

2018-2019	Sunny Ye Wang (BScH, Psychology, Western University)
2018-2019	Jacqueline Yeung (BScH, Psychology, Western University)
2018-2019	Mackenzie Bacon (BScH, Psychology, Western University)
2017-2018	Younghyun Choi (BScH, Psychology, Western University)
2017-2018	Vivian Huynh (BScH, Psychology, Western University)
2017-2018	Grace To (BScH, Psychology, Western University)
2017-2018	Luke Petrusevski (BScH, Psychology, Western University)
2016-2017	Teigan Chorny (BScH, Psychology, Western University)
2016-2017	Zachary Hallgrimson (BScH, Medical Biophysics, Western University; cosupervision with Ali Khan)
2015-2016	Jessica Uthayakumar (BScH, Psychology, Western University)
2015-2016	William McPherson (BScH, Psychology, Western University)
2015-2016	Toore Adebajo (BScH, Psychology, Western University)
2015-2016	Zoey Walden (BScH, Psychology, Western University)
2015-2016	Maya Ramakrishnan (BScH, Psychology, Western University)
2013-2014	Harrison Ritz (BScH, Psychology, Queen's University)
2013-2014	Jessica Wilfong (BScH, Psychology, Queen's University)
2013-2014	Spencer Arbuckle (BScH, Psychology, Queen's University)
2012-2013	Alexandra Cross (BScH, Psychology, Queen's University)
2012-2013	Stephanie Hughes (BScH, Psychology, Queen's University)
2012-2013	Vanessa Khu (BScH, Psychology, Queen's University)
2012-2013	Emily Dawber (BScH, Psychology, Queen's University; cosupervision with Kevin Munhall)
2011-2012	Miriam Heavenrich (BScH, Psychology, Queen's University)
2011-2012	Alison Young (BAH, Psychology, Queen's University)
2011-2012	Stephanie Richardson (BScH, Psychology, Queen's University)
2010-2011	James Simpson (BScH, Life Science, Queen's University)
2010-2011	Jackie Huberman (BScH, Psychology, Queen's University; cosupervision with Hans Dringenberg)
2010-2011	Avanti Dey (BScH, Psychology, Queen's University)
2009-2010	Afiqah Yusuf (BScH, Psychology, Queen's University)
2008-2009	Stephen Lee (BScH, Psychology, Queen's University)
2008-2009	Leah DeGorter (BScH, Psychology, Queen's University)
2008-2009	Miriam Lermer (BScH, Psychology, Queen's University)
2007-2008	Elizabeth Casey (BAH, Psychology, Queen's University)
2007-2008	Kevin McFadyen (BScH, Psychology, Queen's University)
2006-2007	Allison Mackey (BScH, Psychology, Queen's University)
2006-2007	Margaret Looker (BScH, Psychology, Queen's University)
2006-2007	Elizabeth Alexander (BScH, Psychology, Queen's University)
2005-2006	Victoria Cheung (BScH, Psychology, Queen's University)
2002-2003	Carolyn McGettigan (Part II Psychology, University of Cambridge)
2001-2002	Alexis Hervais-Adelman (Part II Psychology University of Cambridge)
2001-2002	Lara Brent (Part II Psychology, University of Cambridge)
2000-2001	Iain Turnbull (Part II Psychology University of Cambridge)
2000-2001	Philip Dilks (Part II Psychology, University of Cambridge)

NSERC Undergraduate Summer Research Award Supervision:

2017	George Gainham
2008	Stephen Lee, Afiqah Yusuf
2007	Elizabeth Alexander
2005	Julian Tam (Cosupervised by Purang Abolmaesumi, School of Computing)

Research Assistant/Coordinator Supervision:

2017 - 2020	Rosanna Turner

2017	Zachary Hallgrimson
2016 - 2017	Sima Hoseingholizade
2015 - 2016	Natalie Osborne
2014 - 2015	Spencer Arbuckle
2010 - 2014	Kris Marble
2010 - 2014	Cheryl Hamilton
2008 - 2010	Hélène Hakyemez
2007 - 2008	Elizabeth Alexander
2007	Allison Mackey
2006	Aileen Chau
2005-2006	Lara Bailey
2003-2004	Karen Taylor
2002-2004	Mike Ford
2002-2003	Alexis Hervais-Adelman

PhD Oral Examinations – External Examiner

Gulban, Omer Faruk **University of Maastricht, Netherlands,** Sept 2020
Bianchi, Federika **Danish Technical University, Denmark** June 2016
Malins, Jeff **Western University, Canada** October 2013
Narain, Charvy **Oxford University, UK** June 2004

Courses

Years	Course	Undergrad/ Grad course	Sole or Co-instructor	Enrolment
2018 (Fall)	Psychology 4850/4851 4852 Honours Thesis In Psychology	Undergrad	Co-Instructor	65
2018 (Winter)	Psychology 9345B Introduction to Clinical Neuropsychology	Graduate	Sole	6
2018 (Fall) 2017 (Fall)	CSD 4417 Introduction to Hearing Science	Undergrad	Co-Instructor	40/45
2017 (Winter)	Psychology 3224 Neuropsychology and Cognitive Neuroscience	Undergrad	Sole	37
2017 (Winter)	CSD 9516 Evoked Potentials and Emissions	Graduate	Co-instructor	22
2015 (Fall)	CSD 9512 Acoustics, Perception, and the Auditory System	Graduate	Co-instructor	20
2014 (Fall)	Psychology 2115 Introduction to Sensation and Perception	Undergrad	Sole	59
2011 (Summer) 2011-2014 (FW)	PSYC100:Introductory Psychology	Undergrad	Co-instructor and coordinator	150 Summer; 1800 FW
2008 (F)	PSYC100: Introductory Psychology pilot project “Discovery Sessions”	Undergrad	Instructor	100
2008-2009 (FW)	PSYC501: Honours thesis	Undergrad	Co-coordinator	51
2005-2009 (W)	PSYC215: Sensation and Perception	Undergrad	Co-instructor 2005, 2006; Sole 2007-2009	120
2005-2007 (W)	PSYC380: Advanced Perception	Undergrad	Co-instructor	25

2007 (W)	PSYC921: Signals and Noise	Grad	Co-instructor	10
2005 (F)	PSYC 930: Controversies in Sensory Integration	Grad	Co-instructor	12
2006, 2008 (W)	PSYC 917: Introduction to Cognitive Neuroimaging	Grad	Sole	12

Other Contributions to Teaching:
I have taken an active interest in undergraduate curriculum and course design. In the process, I have learned a great deal about higher-education pedagogy. Between 2010 and 2014 I co-led the redesign of the Queen's University first-year Psychology course (enrolment 1800/year) to encourage more active learning. We adopted a blended model, with online resources, weekly lectures, and weekly small-group learning sessions facilitated by trained upper-year students. (The upper year students themselves are enrolled in a course, for which facilitation of first-year labs is a practicum). According to outcome measures, this course redesign and implementation was successful and was used by the Provost of Queen's to showcase innovation in teaching.

Other Teaching
2010: "Introduction to Cognitive Neuroimaging" Graduate course taught at Linköping University, Sweden
2003, 2004: "Introduction to Neuroimaging" Three two-hour lectures for graduate students, postdoctoral fellows and faculty, MRC Cognition and Brain Sciences Unit.
2003, 2004: "Frontiers in Neuroscience Module" Two two-hour lectures, Masters in Bioscience Enterprise Program, Cambridge-MIT Institute

CONFERENCE CONTRIBUTIONS (Other than Invited)

Conference Abstracts: Published or in Press
80) KM Ikeda, SM Mirsattari, AR Khan, I Johnsrude, JG Burneo, TM Peters CNS André Barbeau Memorial Prize Network connectivity following a single unprovoked seizure using 7 Tesla resting-state fMRI (2017). The Canadian Journal of Neurological Sciences. Le journal canadien des sciences neurologiques 06/2017; 44(S2):S8.
79) **Ritz, H.,** Wild, C., Johnsrude, I. J. (2016). The effects of concurrent cognitive load on the processing of clear and degraded speech. Organization for Human Brain Mapping Annual Meeting, Geneva, CH.
78) Johnsrude IS, Rodd JM. (2015). Factors that increase processing demands when listening to speech. *Acoustical Society of America*, **137**, 2211-2211.77
77) **Ramezani**, A Rasoulian, T Hollenstein, K Harkness, I Johnsrude, P Abolmaesumi. (2014). Joint source based analysis of multiple brain structures in studying major depressive disorder. *SPIE Medical Imaging,* **9034**
76) **Huyck, J.J.** and Johnsrude, I.J. (2014). Comprehension of degraded speech becomes less effortful but not more automatic with training. *Assoc. Res. Otolaryngol. Abs.*
75) Johnsrude, IS, **Casey, E**, Carlyon, RP. (2014) Listen to your mother: Highly familiar voices facilitate segregation *The Journal of the Acoustical Society of America*, **135**, 2423-2423.
74) **Zheng ZZ,** Munhall KG, & Johnsrude, IS. Perceived magnitude of the rubber-hand illusion predicts ownership of a stranger's voice. 5th APS Annual Convention, May 23-26, 2013, Washington DC USA.
73) **Ramezani M,** Rasoulian A, Abolmaesumi P, Hollenstein T, Harkness K, & Johnsrude, IS. Multi-object statistical analysis of late adolescent depression*. SPIE Medical Imaging Conference,* 9-14 Feb 2013, Orlando, FL USA.
72) **Ramezani M,** Rasoulian A, Abolmaesumi P, Hollenstein T, Harkness K, & Johnsrude, IS. Independent component anlaysis on lie-groups for multi-object analysis of first episode depression. *8th International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, Vancouver Convention & Exhibition Centre, Vancouver, Canada, on May 26 - 31, 2013.
71) **Wild CJ** & Johnsrude, IS. (2013). Using FMRI to Study the Role of Attention in Speech Perception. *Assoc. Res. Otolaryngol. Abs.:* 894.
70) **Raynor GK, Huyck JJ, Heavenrich M,** Johnsrude, IS. (2013). Delayed recovery of auditory stream segregation: cognitive and acoustic disruptions are additive. *Assoc. Res. Otolaryngol. Abs.:* 196.

69) Misurelli S, Bernstein S, Johnsrude IS, & Litovsky R. (2013). How do cognitive factors interact with speech-in-noise segregation in normal hearing children and adults? *Assoc. Res. Otolaryngol. Abs.:* 495.
68) **Ramezani M**, Abolmaesumi P, Marble K, **Trang H**, & Johnsrude IS. (2012). Joint sparse representation of brain activity patterns related to perceptual and cognitive components of a speech comprehension task. *Second Annual Workshop on Pattern Recognition in Neuroimaging (PRNI),* London, UK, July 2-4 2012.
67) Rönnberg J, Sörqvist P, Dahlström Ö, Rudner M, Johnsrude I & Stenfelt S. (2012) Speech in noise and ease of language understanding: when and how working memory capacity plays a role J. Acoust. Soc. Am. **131**, 3342.
66) **Samson F**, & Johnsrude IS. (2012). Understanding a target voice in the presence of competing talkers: Do listeners benefit from the continued presence of a particular target or masker voice? *Canadian Journal of Experimental Psychology –Revue Canadienne de psychologie experimentale,* **66**, 284-284.
65) **Huyck JJ, Raynor GK, Heavenrich MA,** & Johnsrude, IS (2012). Effects of spatial- and task-attention switches on auditory perceptual organization. *Canadian Journal of Experimental Psychology –Revue Canadienne de psychologie experimentale,* **66**, 302-302.
64) **Huyck JJ,** Johnsrude, IS. (2012). Long-term retention after perceptual learning of noise-vocoded speech. *Canadian Journal of Experimental Psychology –Revue Canadienne de psychologie experimentale,* **66**, 304-304.
63) **Wayne RV**, & Johnsrude, IS. (2012). Understanding the benefit of facial gestural information for degraded speech. *Canadian Journal of Experimental Psychology –Revue Canadienne de psychologie experimentale,* **66**, 304-304.
62) **Raynor GK** Johnsrude IS, & Carlyon RP. (2012). The time course of auditory perceptual organization of unresolved complex tones changes with age. *Assoc. Res. Otolaryngol. Abs.:* 630.
61) **Wayne RV** & Johnsrude IS. (2012). Is perceptual learning of noise-vocoded speech enhanced by audiovisual speech information? *Assoc. Res. Otolaryngol. Abs.:* 371.
60) **Huyck JJ**, Smith, R, & Johnsrude, IS. (2012). Does perceptual learning of degraded speech generalize to a novel voice and accent? *Assoc. Res. Otolaryngol. Abs.:* 370.
59) **Samson F,** & Johnsrude, I (2012). Understanding a target voice in the presence of competing talkers: Do listeners benefit from continued experience with a particular target or masker voice? *Assoc. Res. Otolaryngol. Abs.:* 372.
58) **Wild CJ, Yusuf A,** Wilson D, Peelle JE, Davis MH, & Johnsrude IS. (2011) Attention enhances the processing of degraded speech: evidence from fMRI implicates left temporal and inferior frontal cortex. *Assoc. Res. Otolaryngol. Abs.:* 1125.
57) Johnsrude IS Rodd JM, & Davis MH. (2010). The presence of ambiguous words in sentences decreases intelligibility in noise. *Assoc. Res. Otolaryngol. Abs.*: 438
56) **Heinrich A**, Davis MH, Carlyon RP, & Johnsrude, IS. (2009) FMRI evidence that illusory continuity of vowels does not depend on attentional state. *Assoc. Res. Otolaryngol. Abs.:* 1056.
55) **Wild C,** Davis MH, **Hervais-Adelman A,** & Johnsrude IS. (2009) Functional coupling between auditory and motor regions is modulated by the perceptual difficulty of speech. 16th Annual Cognitive Neuroscience Society Meeting, San Francisco, Mar 21-24, 2009. *Journal of Cognitive Neuroscience Supplement* p 152.
54) **Tahmasebi A**, Abolmaesumi, P, **Wild C,** & Johnsrude, IS. (2009). Quantification of inter-subject variability in human brain: a validation framework for probabilistic maps. *SPIE Medical Imaging*, Orlando, pp. 726218-1-8.
53) Garcia A, Klar S, Bowes J, Johnsrude I, & Stroman P (2008) Recruitment of multiple brain areas to perform focus attention tasks in cognitive normal older adults: an fMRI study. *The Gerontologist*, Oct 2008, 48, 497.
52) **Tahmasebi AM**, Abolmaesumi P, **Wild C** & Johnsrude IS. (2008) A novel automatic segmentation method for ROI-based functional analysis. *Proceedings of the First Workshop on Analysis of Functional Medical Images, Medical Image Computing and Computer Assisted Intervention (MICCAI)*, New York USA, 2008, 89-96.
51) **Heinrich A**, Carlyon RP, Davis MH, & Johnsrude IS. (2008). How attention influences the perception of illusory vowels resulting from perceptual continuity: An fMRI study. Cognitive Neuroscience

Society Annual Meeting, San Francisco, April 2008. *Journal of Cognitive Neuroscience Supplement*, p 227.

50) **MacDonald H,** Davis M, Pichora-Fuller K, & Johnsrude I. Contextual influences: Perception of sentences in noise is facilitated similarly in young and older listeners by meaningful semantic context; neural correlates explored via fMRI. *J. Acoust. Soc. Am.* **123**, 3887.

49) **Wild C**, Davis MH, **Hervais-Adelman H,** & Johnsrude I. Perceptual clarity of speech modulates activity in left temporal-lobe regions: Evidence from fMRI for top-down influences. *J. Acoust. Soc. Am.* **123**, 3889.

48) Davis MH, Johnsrude IS, **Hervais-Adelman H,** & Rogers J. Motor regions contribute to speech perception: awareness, adaptation and categorization. *J. Acoust. Soc. Am.* **123**, 3580.

47) Johnsrude IS, **Mackey A, Alexander EM, MacDonald HP** & Carlyon RP. (2008) Effects of voice familiarity and age on attention to one of two simultaneous talkers. *J. Acoust. Soc. Am.* **123**, 3566

46) **Wild C**, Davis MH, **Hervais-Adelman H,** & Johnsrude I. (2008) Perceptual clarity of speech modulates activity in left temporal-lobe regions: Evidence from fMRI for top-down influences. *Assoc. Res. Otolaryngol. Abs.:* 1169.

45) Patterson RD, **Hervais-Adelman A**, Ives T, Johnsrude IS, & Norris, D. (2008) Cortical processing of consonants occurs in regions adjacent to regions active in vowel processing. *Assoc. Res. Otolaryngol. Abs*.: 524

44) Johnsrude IS, **Mackey A, Alexander EM, MacDonald HP** & Carlyon RP. (2007) Effects of voice familiarity on attention to one of two simultaneous talkers. Abstracts of the British Society for Audiology Short Papers Meeting, London UK Sept 2007; To appear in *International Journal of Audiology.*

43) **Tahmasebi A,** Abolmaesumi P. **Zheng Z**, Munhall KG, & Johnsrude IS. (2007) Reducing inter-subject anatomical variation: Analysis of functional activity in auditory cortex and the superior temporal region using HAMMER. MICCAI 2007 Workshop: Statistical Registration: Pair-wise and Group-wise Alignment and Atlas Formation Brisbane, Australia; November 2, 2007.

42) **Zheng Z,** Johnsrude IS, & Munhall KG (2007). Activity in regions sensitive to auditory speech is modified during speech production: fMRI evidence for an efference copy. Journal of the Acoustical Society of America Suppl (Salt Lake City USA)

41) **Byrne S,** Johnsrude IS, & Munhall KG (2007). Does the production of speech necessarily rely on auditory feedback? . Journal of the Acoustical Society of America Suppl (Salt Lake City USA)

40) **Hervais-Adelman AG,** Johnsrude IS, Carlyon, RP, & Davis MH. (2007). Effortful comprehension of noise vocoded speech recruits a fronto temporal network. Journal for Cognitive Neuroscience Suppl A101. (New York USA)

39) **Heinrich A**, Carlyon RP, Davis, MH, & Johnsrude IS (2007). The continuity illusion and vowel perception: An fMRI study. Journal for Cognitive Neuroscience Suppl D43 (New York USA)

38) Absalom A, Coleman M., Davis M, Rodd J, Johnsrude I, Owen A, & Menon D. (2006). An fMRI study of the influence of propofol sedation on neural correlates of speech perception and comprehension, British Journal of Anaesthesia, 97, 438P-438P.

37) **Heinrich A**, Carlyon RP, Davis MH & Johnsrude IS. (2006). The continuity illusion and vowel perception: An fMRI study. Abstracts of the British Society for Audiology Short Papers Meeting.on Experimental Studies of Hearing and Deafness September 2006, Cambridge University UK *International Journal of Audiology,* **10,** 619-658.

36) **Hervais-Adelman AG,** Davis MH, Taylor KJ, Carlyon RP, & Johnsrude IS (2006) Perceptual learning of vocoded speech: Where does it occur? Exploiting generalisability to find the locus of change. Journal of Cognitive Neuroscience supplement (San Francisco USA)

35) Davis MH, Coleman MR, Absalom A, Rodd JM, Johnsrude IS, Matta B, Menon DK, & Owen AM (2006) Neural correlates of speech perception and comprehension during sedation: an fMRI study. Journal of Cognitive Neuroscience supplement (San Francisco USA)

34) Hawkins S & Johnsrude IS. What is a "phonetic category"? (2006). Journal of Cognitive Neuroscience supplement (San Francisco USA)

33) Rodd JM, Davis MH, & Johnsrude IS (2005). The timecourse of neural responses to ambiguous words in sentences: An FMRI study. Journal of Cognitive Neuroscience, 76-77 Suppl. S 2005 (New York USA)

32) Davis MH, Ford MA, & Johnsrude IS (2005). Sentence-level meaning aids perception of speech in noise: An FMRI study. Journal of Cognitive Neuroscience: 125-125 Suppl. S 2005 (New York USA)

31) Scott S, Rosen S, Johnsrude I, et al. (2004). The neuroanatomy of speech perception. International Journal of Psychology 39 (5-6): 349-349 Suppl. S OCT-DEC 2004
30) Schwarzbauer C, Davis MH, Rodd J, & Johnsrude IS (2004) Interleaved silent steady-state (ISSS): A novel sparse-imaging sequence with superior temporal resolution for auditory fMRI experiments NeuroImage, 22 Suppl 1 (Budapest, Hungary)
29) Hauk O, Pulvermüller F, & Johnsrude IS. (2004) Who has the better view? A comparison of EEG and fMRI for the detection of early word-related processes. . NeuroImage, 22 Suppl 1 (Budapest, Hungary)
28) Patterson RD, Uppenkamp S, Johnsrude IS, & Norris D. (2004). What makes a 'complex sound' a speech sound, and what region of the brain makes the decision? Assoc. Res. Otolaryngol. Abs.: 1009
27) Pulvermüller F, Hauk O, Shtyrov Y, Nikulin V, Johnsrude I, & Ilmoniemi R. (2004) Brain connections of language and actions: Evidence from multimodal imaging. NeuroImage, 22 Suppl 1 (Budapest, Hungary)
26) Davis MH, **Hervais-Adelman A** & Johnsrude, IS (2004) Distortion-dependent and task-dependent activity in the perception of spoken sentences: fMRI studies. Journal of Cognitive Neuroscience supplement
25) Rodd JM, Davis MH, **Hervais-Adelman, A** & Johnsrude, I.S. (2003) The Neural System involved in the Semantic Disambiguation of Spoken Language. Journal of Cognitive Neuroscience supplement
24) Hauk, O, Pulvermueller F, & Johnsrude I. (2003) Brain areas activated by action words: Evidence from ERPs and efMRI. NeuroImage 19(2) Suppl1, S57
23) **Cox SML**, Andrade A, Johnsrude IS. (2003) An fMRI study of conditioned reward. NeuroImage 19(2) Suppl1
22) Pulvermueller F, Hauk O, Shtyrov Y, et al (2003). Interaction of language and actions. Psychophysiology 40, Suppl 1; S70-S70.
21) Dove A, Rowe JB, Johnsrude IS & Owen AM. (2001). Involvement of dorsolateral prefrontal cortex in manipulation of items held in working memory. Journal of Cognitive Neuroscience, 13, supplement 89
20) Goncalves M, Hall D, Johnsrude I & Haggard, M (2001). Can meaningful effective connectivities be obtained between auditory cortical regions? NeuroImage, 13 (6) Suppl 1, S130.
19) Griffiths TD, Uppenkamp, S, Johnsrude I, Patterson RD (2001). fMRI study of the mechanism for encoding tempora regularity in the human brainstem. Assoc. Res. Otolaryngol. Abs.: 21712
18) Johnsrude IS, Morosan P, Hall D, Cusack R, Brett M, & Zilles K (2001).Functional specialization within three human primary auditory cortical areas. Assoc. Res. Otolaryngol. Abs.: 21252
17) Johnsrude I, Cusack R, Morosan P, Hall D, Brett M, Zilles K, Frackowiak R. (2001)Cytoarchitectonic region-of-interest analysis of auditory imaging data. NeuroImage, 13 (6) Suppl 1 S897.
16) Hall D & Johnsrude IS (2001). Interpreting acoustical responses to complexity with respect to the cytoarchitecture of the human supratemporal plane. Assoc. Res. Otolaryngol. Abs.: 20696
15) Hall DA, Johnsrude IS, Goncalves MS, et al. (2000) Hierarchical processing in the auditory cortex? FMRI mapping of responses to spectral and temporal complexity European Journal of Neuroscience. 12: Suppl. P 494.
14) Johnsrude I (2000). Review of Mai et al: Atlas of the human brain. Journal of Psychophysiology, 14 (3): 194-195.
13) **Good C**, Johnsrude I, Ashburner J, Friston K & Frackowiak, R (2000). Voxel based morphometry of 465 normal adult human brains. NeuroImage, 11 (5) Suppl 1, S607
12) Hall D, Johnsrude IS, Goncalves M, Haggard M, Palmer A, Summerfield Q, Akeroyd M & Frackowiak, R (2000). Auditory cortical representations of spectral and temporal complexity measured using fMRI. NeuroImage, 11 (5) Suppl 1, P S701
11) Giraud AL, Lorenzi C, Wable J, Kleinschmidt A, Johnsrude IS, & Frackowiak RSJ. (1999). Temporal envelope representation in the human auditory cortex.NeuroImage, 9:S787.
10) Johnsrude IS, Wolforth M, Green G, & Frackowiak RSJ. (1999). Auditory cortical response to speech sounds and to some of the acoustic components of speech: A PET study. NeuroImage, 9: S786.
9) Krakow K, Lemieux L, Symms MR, Josephs O, Johnsrude IS, Woermann FG, Allan PJ, Fish DR, & Duncan JS. (1999). Imaging of epileptiform activity using spike-triggered MR. NeuroImage, 9:S572.

8) Owen AM, Menon DK, Williams EJ, Minhas PS, Johnsrude IS, Scott SK, Allen CM, Boniface SJ, Kendall IV, Downey SPMJ, Antoun N, Clark JC, & Pickard JD. (1999). Functional imaging in persistent vegetative state (PVS). NeuroImage, 9: S581.
7) Ashburner J, Hutton C, Johnsrude IS, Price C, & Friston K. (1998). Identifying global anatomical differences: deformation-based morphometry. NeuroImage, 7: S744.
6) Crane J, Johnsrude IS, Milner BA, Owen AM, & Evans AC. (1997). Right hippocampal activation during recognition tests of object location memory: A PET study. NeuroImage, 5: S625.
5) Johnsrude IS, Paus T, Zatorre RJ, Perry DW, Ward GP & Evans AC. (1997). The location of auditory activation foci relative to Heschl'sgyri.NeuroImage, 5:S177.
4) Leblanc R, Meyer E, Zatorre RJ, Klein D, Johnsrude IS, & Evans AC. (1997). Functional imaging of arteriovenous malformations. NeuroImage, 5:S330.
3) Johnsrude IS, Zatorre RJ, Milner B, & Worsley, K., & Evans, A. (1996). A PET study of the processing of rapidly changing acoustic information. NeuroImage, 3:S311.
2) Klein D, Zatorre RJ, Milner BA, Johnsrude IS, Nikelski J, & Evans, A.(1996). Intrasubject correlation of PET activation studies of language lateralization with results of the sodium amobarbital test. NeuroImage, 3: S444.
1) Johnsrude IS & Milner BA. (1992). The effect of presentation rate on the comprehension and recall of speech after anterior temporal-lobe resection [Abstract]. Proceedings and Abstracts of the Annual Meeting of the Eastern Psychological Association, 63, 12.

Conference Abstracts and Presentations (Except Published)

Abbas, H. H.*, Chadwick, C., Bullen, A., O'Reilly, M., Ladowski, D., Khan, A., Burneo, J., Steven, D., & Johnsrude, I. (2020, Sept). *Inter-subject correlation of movie-driven fMRI data in drug-resistant epilepsy.* Poster presented at the North American Epilepsy Congress 2020, virtual.

Van Hedger, SC, Johnsrude, IS (2020). Understanding Different Forms of Degraded Speech as an Auditory Skill. Podium presentation (talk) at the Association for Research in Otolaryngology 43rd Mid-Winter Meeting, San Jose, CA, USA.

Bain, MT, Herrmann B, Johnsrude IS (2020) Cognitive Resources are Recruited Highly Consistently Across Individuals During Story Listening. Podium presentation (talk) at the Association for Research in Otolaryngology 43rd Mid-Winter Meeting, San Jose, CA, USA.

Billig AJ, Gander P, Kovach C, Kawasaki H, Griffiths T, Johnsrude IS, Howard M, Chait M (2020). Signatures of Regularity in Low- and High- Frequency Activity Recorded from Human Primary and Non-Primary Auditory Cortex. Poster presentation at the Association for Research in Otolaryngology 43rd Mid-Winter Meeting, San Jose, CA, USA.

Kadem M, Herrmann B, Johnsrude IS (2020). Pupil size tracks semantic ambiguity and noise in speech. Poster presentation at the Association for Research in Otolaryngology 43rd Mid-Winter Meeting, San Jose, CA, USA.

Irsik VC, Johnsrude IS, **Herrmann B** (2020). Neural Alpha and Beta Oscillations are Differentially Modulated in a Challenging Visual Compared to Auditory Task. Podium presentation (talk) at the Association for Research in Otolaryngology 43rd Mid-Winter Meeting, San Jose, CA, USA.

Varma S, Veeranna S, Purcell D, Johnsrude IS, Herrmann B. (2020. Simultaneous Investigation of Subcortical and Cortical Sensitivity to Temporal Information Podium presentation (talk) at the Association for Research in Otolaryngology 43rd Mid-Winter Meeting, San Jose, CA, USA.

Buckland C, O'Reilly M, Johnsrude IS (2020). Functional Connectivity Between Cortical and Subcortical Auditory Regions During Rest and Movie Viewing. Podium presentation (talk) at the Association for Research in Otolaryngology 43rd Mid-Winter Meeting, San Jose, CA, USA. (withdrawn for health reasons).

Irsik, V.C., Johnsrude, I.S., & Herrmann, B. (2019). Aging differentially affects the cortical representation of ramped and damped sounds. Slide session presented at 2019 APAN - Advances and Perspectives in Auditory Neuroscience, Chicago, IL, USA.

Billig, A.J., Herrmann, B., Rhone, A.E., Gander, P.E., Nourski, K.V., Snoad, B.F., Kovach, C.K., Kawasaki, H., Howard, M.A., & Johnsrude I.S. (2019). Spectral properties of primary and non-primary auditory cortical activity. Talk at 23rd International Congress on Acoustics, Aachen, Germany.

O'Reilly, M., Khan, A.R., Johnsrude, I. (2019) Individual Variability of Functional Connectivity in Resting-State and Naturalistic fMRI Paradigms. Poster presentation at the Organization for Human Brain Mapping Annual Meeting, Rome, Italy.

Herrmann B, Varma S, Johnsrude IS (2019) Neurons in human brain stem adapt to statistical structure in acoustic stimulation. Poster presentation at the International Conference on Hearing Loss, Niagara-on-the-Lake, ON, Canada.

Varma S, Purcell D, Johnsrude IS, Herrmann B (2019) Investigation of the relationship between subcortical neural responses and cortical processing of temporal regularity. Poster presentation at the International Conference on Hearing Loss, Niagara-on-the-Lake, ON, Canada.

Irsik V, Johnsrude IS, Herrmann B (2019) Determining the effect age on neural synchronization to amplitude-modulated sounds with different envelope shapes. Poster presentation at the International Conference on Hearing Loss, Niagara-on-the-Lake, ON, Canada.

Herrmann B, Maess B., Johnsrude IS (2019) Alpha oscillations index the temporal dynamics of effortful listening. Poster presentation at the Association for Research in Otolaryngology 42nd Mid-Winter Meeting, Baltimore, MD, USA.

Varma, S., Herrmann, B., Johnsrude, I. (2019, February) Investigation of the neural processes underlying hearing from periphery to brain. Poster presentation at the 48th Lake Ontario Visionary Establishment, Niagara Falls, ON, Canada.

Billig, A.J., Herrmann, B., Rhone, A.E., Gander, P.E., Nourski, K.V., Howard, M.A., & Johnsrude I.S. (2018) Alpha oscillations within human auditory cortex: An intracranial electrophysiology study. Poster presentation at the Association for Research in Otolaryngology 41st Mid-Winter Meeting, San Diego, CA, USA.

Herrmann B, Maess B., Johnsrude IS (2018) Alpha oscillations index the temporal dynamics of exerted cognitive effort during listening. Poster presentation Society for Neuroscience, Online, Neuroscience 2018, San Diego, CA, USA.

Herrmann B, Maess B, Johnsrude IS (2018) Alpha oscillations index the temporal dynamics of exerted cognitive effort during listening. Poster presentation at the 11th Symposium on Advances and Perspectives in Auditory Neurophysiology, San Diego, CA, USA.

O'Reilly, M., Khan, A.R., Johnsrude, I. (2018) Stability of Functional Networks in Resting State and Movie Stimulation Conditions. Poster presentation at the Sixth Biennial Conference on Resting-State and Brain Connectivity, Montreal, Quebec, Canada.

O'Reilly, M., Khan, A.R., Johnsrude, I. (2018) Stability of Functional Networks in Resting State and Movie Stimulation Conditions. Poster presentation at the Robarts Research Retreat, London, Ontario, Canada.

Billig, A.J., Davis, M.H., Gander, P.E., Rhone, A.E., Nourski, K.V., Howard, M.A., Johnsrude, I.S., & Carlyon, R.P. (2018) High-level influences on auditory bistability. Talk at 22nd Meeting of the Association for the Scientific Study of Consciousness, Krakow, Poland.

Popa, A-B, Ladowski, D, MacKinley, M, Dempster, K, Palaniyappan, L, Johnsrude IS. (2018) Eliciting perceptual errors to detect cognitive changes in early psychosis. Abstract at London Health Research Day, and submitted to Canadian Society for Brain Behaviour and Cognitive Science, St John's, NL, Canada.

Ladowski, D., Choi, Y., Bullen, A., Kohler, S., McAndrews, M. P., Chen, J., Ghazaleh, N., Gainham, G., Burneo, J., Mirsattari, S., & Johnsrude, I. (2018, July). Memory for temporal context in temporal lobe epilepsy. Poster session presented at the meeting of the Canadian Society for Brain, Behaviour, and Cognitive Science (CSBBCS), St. John's, NL, Canada.

Herrmann, B., Johnsrude, I.S. (2018) Sound pattern processing: Neural synchronization and sustained neural activity. Poster presentation at the Association for Research in Otolaryngology 41st Mid-Winter Meeting, San Diego, CA, USA.

Holmes, E., Domingo, Y., & Johnsrude, I. S. (2018) Talker familiarity improves understanding of speech in the presence of simultaneous talkers. Association for Research in Otolaryngology 41st Mid-Winter Meeting, San Diego, CA, USA.

Holmes, E., & Johnsrude, I. S. (2018). How are familiar voices represented in auditory cortex? Poster presentation at University College London Neuroscience Symposium, London, UK.

Domingo, Y., Holmes, E., Macpherson, E., & Johnsrude, I. (2018) "Estimating the magnitude of the familiar voice intelligibility benefit using spatial release from masking", 41st Mid-Winter Meeting of the Association for Research in Otolaryngology, San Diego CA.

Billig, A.J., Nourski, K.V., Rhone, A.E., Gander, P.E., Howard, M.A., Johnsrude, I.S. (2018) Linguistic knowledge affects auditory streaming of speech: Insights from intracranial recordings and functional magnetic resonance imaging. Talk at 41st Mid-Winter Meeting of the Association for Research in Otolaryngology, San Diego, CA, USA.

Holmes, E, Johnsrude, I.S. (2017) How are familiar voices represented in auditory cortex? Poster presentation at the 6th International Conference on Auditory Cortex, Banff, AB, Canada.

Herrmann, B., Maess, B., Johnsrude, I.S. (2017) Altered adaptation to sound-level statistics in the auditory cortex of older adult humans (slide session speaker). International Conference on Auditory Cortex, Banff, AB, Canada.

Herrmann, B., Johnsrude, I.S. (2017) Sound pattern processing: Neural synchronization and sustained neural activity. Poster presentation at the CuttingEEG Symposium, Glasgow, Scotland.

Billig, A.J., Rhone, A.E., Gander, P.E., Nourski, K.V., **Wild, C.J.,** Howard, M.A., Johnsrude, I.S. (2017). Intracranial recordings of primary auditory cortical activity during pop-out of degraded speech based on matching visual information. 40th Annual Midwinter Meeting of the Association for Research in Otolaryngology, Baltimore, MD.

Billig, A.J., Rhone, A.E., Gander, P.E., Nourski, K.V., Wild, C.J., Howard, M.A., Johnsrude, I.S. (2017). Reconstruction of noise-vocoded speech from primary auditory cortex during perceptual pop-out. Poster presentation at the Signal and Noise along the Auditory Pathway (SNAP) Workshop, Lübeck, Germany.

Domingo, Y., Holmes, E., & Johnsrude, I. S. (2017) The effect of voice familiarity and memory load on speech intelligibility in multi-talker environments. 40th Annual Midwinter Meeting of the Association for Research in Otolaryngology, Baltimore, MD.

Holmes, E., Purcell, D. W., Carlyon, R. P., Gockel, H. E., & Johnsrude, I. S. (2017) Attentional Modulation of Envelope Following Responses Only for Lower Frequencies. Association for Research in Otolaryngology 40th Mid-Winter Meeting, Baltimore, MD, USA.

Holmes, E., Domingo, B. Y., & Johnsrude, I. S. (2017) Improvement in Speech Intelligibility for Familiar Voices is Robust to Manipulations of Fundamental Frequency and Vocal Tract Length. Association for Research in Otolaryngology 40th Mid-Winter Meeting, Baltimore, MD, USA.

Holmes, E., & Johnsrude, I. S. (2017). Improvement in speech intelligibility for familiar voices relies on vocal tract length. Poster presentation at the Psychonomic Society 58th Annual Meeting, Vancouver, BC, Canada.

Bullen, A., Ritz, H., Naci, L., Khan, A., Johnsrude, IS. Asynchrony in Auditory, Dorsal Attention, and Right Executive Control Networks during Movie-Viewing Classifies Persons with Epilepsy. American Epilepsy Society. Houston, TX. Dec 2, 2016.

Billig, A.J., & Johnsrude, I.S. (2016). Auditory streaming of speech: acoustics, lexicality and neural signatures. Advances and Perspectives in Auditory Neuroscience Symposium, San Diego, CA.

Herrmann B, Johnsrude IS (2016) The influence of frequency on perceived temporal rate is larger in demanding listening situations. Society for Neuroscience, San Diego, USA.

Bullen, A., Naci, L., Khan, A., Johnsrude, IS. Using Movie-Driven fMRI to Identify Abnormal Functional Connectivity in Intractable Focal Epilepsy. Canadian League Against Epilepsy Annual Meeting. Quebec City, QC. Oct 15, 2016.

Billig, A.J., Rhone, A.E., Gander, P.E., Nourski, K.V., **Wild, C.J**., Howard, M.A., Johnsrude, I.S. (2016). Intracranial recordings reveal modulation of high gamma activity in auditory cortex during speech pop-out. 8th Annual Meeting of the Society for the Neurobiology of Language, London, UK.

Holmes, E., Purcell, D. W., Carlyon, R. P., Gockel, H. E., & Johnsrude, I. S. (2016). Effect of attention on envelope following responses. Talk given at Frequency Following Response Workshop, Boston, MA, USA.

Ritz H, Arbuckle S, Wild C, Johnsrude IS. Enhanced recognition memory for spectrally degraded sentences. Association for Research in Otolaryngology 39th Midwinter Meeting, San Diego CA Feb 2016.

Herrmann B, Johnsrude IS. Temporal context effects on neural response adaptation in oddball paradigms. Association for Research in Otolaryngology 39th Midwinter Meeting, San Diego CA Feb 2016.

Domingo BY, Holmes E, Johnsrude IS. How voice familiarity facilitates speech intelligibility in multi-talker situations. Association for Research in Otolaryngology 39th Midwinter Meeting, San Diego CA Feb 2016.

Herrmann B, Obleser J, Henry, MJ, Johnsrude IS. Neural adaptation depends on temporal context in younger and older listeners. Accepted as a talk, Society for Neuroscience 2015 Annual Meeting, Chicago IL Oct 2015.

Signoret C, Andin J, Johnsrude I, Rudner M Cumulative effects of prior knowledge and semantic context: an fMRI study. Seventh Annual Society for the Neurobiology of Language Meeting, Chicago Ill USA Oct 15-17, 2015

Anazodo, U, Johnsrude, I., Kwan, BYM, Khan, AI, Burneo JG, Steven, DA, Pavlosky, W, Taylor, R, St Lawrence, K, Theberge, J, Prato, FS, Thompson, RT, Thiessen, JD. The feasibility of hybrid PET/MR imaging for the localization of epileptic foci in non-lesional epilepsy. At Canadian Epilepsy Research Network meeting, Toronto ON Oct 3-4 2015.

Ritz, H, Arbuckle, S, Wild C, Johnsrude, IS. Enhanced recognition memory for spectrally degraded sentences. Brain and Mind Institute Research Day, London ON Sept 2015

Bullen, A., Naci, L., Khan, A., Johnsrude, IS. Using Naturalistic Stimulation to Identify Abnormal Functional Connectivity in Intractable Focal Epilepsy. Neuroscience Research Day. Western University. London, ON. May 27, 2015.

Wayne RV & Johnsrude, IS. Does working memory training improve speech in noise performance? Association for Research in Otolaryngology Annual Meeting, Baltimore, MD USA Feb 2015.

Ladowski, D., Bowie, C., Rodd, J., & Johnsrude, I. (2015, February 5). The interpretation of ambiguous words in psychosis. In Language. Poster presented at the Lake Ontario Visionary Establishment (LOVE) annual meeting.

Gallivan JP, Johnsrude IS & Flanagan JR. Object-directed action sequences decoded from human frontoparietal and occipitotemporal networks. Society for Neuroscience Annual Meeting, Washington DC, Nov 2014.

Gultepe E, Gallivan JP, Hutchison RM, Everling S, & Johnsrude IS. Unsupervised parcellation of the macaque somatosensory cortex from resting-state fMRI. Society for Neuroscience Annual Meeting, Washington DC, Nov 2014.

Ladowski D, Abdelmotaal, E, Johnsrude, IS Inviting intrusions in perception to elucidate cognitive markers of early psychosis. Society for Neuroscience Annual Meeting, Washington DC, Nov 2014

Gultepe E, Gallivan JP, Hutchison RM, Everling S, & Johnsrude IS. Supervised parcellation of the macaque auditory cortex from resting-state fMRI. The 5th International Conference on Auditory Cortex, Magdeburg, Germany, Sep 2014.

Zekveld AA, Johnsrude IS, Heslenfeld DJ, Versfeld NJ, & Kramer, SE. The eye as window to the listening brain: the neural correlates of pupillometry as measure of cognitive listening load. Second Cognitive Hearing Science for Communication International Meeting, Linköping, Sweden June 2013.

Signoret C, Johnsrude IS, Classon E, Rudner M. Involvement of semantic knowledge and lexical access speed in the pop-out effect. Second Cognitive Hearing Science for Communication International Meeting, Linköping, Sweden June 2013.

Mark, CI, D.P.Munoz and I.Johnsrude. *"Robust quantitative functional magnetic resonance imaging of altered brain activity to investigate the association of traumatic brain injuries with amyotrophic lateral sclerosis"*, Annual Forum of the Canadian Society of Amyotrophic Lateral Sclerosis (ALS), Toronto, ON, May 2013.

Sikka, R., Cuddy, LL, Johnsrude, IS, & Vanstone, AD *Neural basis of familiar melody recognition: An fMRI comparison between younger and older adults.* The 24th Annual Rotman Research Institute Conference" - "Memory and the Brain in Health and Disease. Toronto, ON March 2014

Zheng ZZ, Vicente-Grabovetsky A, MacDonald E, Munhall K, Cusack R, & Johnsrude I. Representational similarity analysis reveals heterogeneous networks subserving speech motor control, *19th Annual meeting of the Organization for Human Brain Mapping, Beijing, China,* June 10-14, 2012. *Accepted; highlighted for oral presentation.*

Signoret C, Johnsrude IS, Classen E, & Rudner M. Does semantic context facilitate perceptual clarity? *Neurobiology of Language Conference*, San Sebastian, Spain, 25-27 Oct 2012.

Rönnberg J, Sörqvist P, Dahlström Ö, Rudner M, Johnsrude, IS, & Stenfelt S. (accepted). Speech understanding in noise: the role of working memory capacity. *INTER-NOISE 2012, the 41st International Congress and Exposition on Noise Control Engineering*. New York, NY, August 2012.

Dahlström Ö, Johnsrude IS, Rönnberg J, & Rudner M. (2012) Working memory processing for sign and speech in Broca's area*. 18th Annual Meeting of the Cognitive Neuroscience Society*, San Francisco, April 2-5 2012.

Hervais-Adelman A, Davis MH, Johnsrude IS, Carlyon RP, Pefkou M, & Golestani N. (2012) Converging evidence for the role of articulatory motor regions in degraded speech perception. *Swiss Society for Neuroscience 2012 Meeting*, Zurich Switzerland, Feb 2012.

Rönnberg J, Sörqvist P, Dahlström Ö, Rudner M, Johnsrude I, & Stenfelt, S. Speech in noise and ease of language understanding: when and how working memory capacity plays a role. *ACOUSTICS 2012, a* joint meeting of the 163rd meeting of the Acoustical Society of America (ASA), the 8th meeting of the Acoustical Society of China (ASC), the 11th Western Pacific Acoustics Conference (WESPAC) and the Hong Kong Institute of Acoustics (HKIOA) *May 2012, Hong Kong*

Hervais-Adelman A, Davis MH, Johnsrude IS, Carlyon RP, Pefkou M, & Golestani N. (2012) Speech comprehension under acoustically challenging conditions engages an articulatory-motor brain network. *Alpine Brain Imaging Meeting 2012,* Champéry, Switzerland, Jan 2012.

Wild CJ, Yusuf A, Wilson D, Peelle JE, Davis MH, & Johnsrude IS. Attention enhances the processing of degraded speech: evidence from fMRI implicates left temporal and inferior frontal cortex. *17th Annual Organization for Human Brain Mapping Meeting, Quebec City* 2011

Raynor GK & Johnsrude IS. (2011). Effects of aging and attention on the time course of auditory perceptual organization. *Canadian Association for Neuroscience Annual Meeting,* Quebec City, May 2011.

Wayne RV. & Johnsrude IS. (2011) Concurrent visual information facilitates perceptual learning of degraded speech. Presented at the *First International Cognitive Hearing Science for Communication* meeting, Linköping Sweden, June, 2011.

Huyck J & Johnsrude IS. (2011) Rapid perceptual learning of noise-vocoded speech requires attention. Presented at the *First International Cognitive Hearing Science for Communication* meeting, Linköping Sweden, June, 2011.

Lee S, Brien DC, Coe BC, Johnsrude IS, & Munoz, DP (2011) Neural correlates of predictive saccades in young healthy adults. Canadian Physiological Society/Canadian Action and Perception Network meeting, St Adèle, Quebec. March, 2011.

Zekveld AA, Rudner M, Johnsrude IS, Heslenfeld DJ, Festen JM, Rönnberg J. An fMRI study of the influence of semantically related and unrelated text cues on the intelligibility of sentences in noise. *Auditory Cognitive Neuroscience Society,* Phoenix Arizona Jan 2011.

Tahmasebi A, Hakyemez H, Wild CJ, Rodd, JM, Davis, MH, & Johnsrude, IS. (2010) High-dimensional anatomical normalization is more effective at compensating for inter-subject variabilityin the location of fMRI activation in sensory than in higher-level association areas. *Society for Neuroscience.*

Wild CJ, Yusuf, A., Wilson, D., Peelle, JE, Davis, MH, & Johnsrude, IS. (2010) Attention enhances the processing of degraded speech: evidence from fMRI implicatesleft temporal and inferior frontal cortex. *Society for Neuroscience.*

Wayne R & Johnsrude IS Visual information improves perceptual learning of noise vocoded speech. British *Society for Audiology Meeting,* Manchester UK Sept 2010.

Wild CJ, Davis MH, & Johnsrude IS. Does perceptual clarity of speech modulate activity in primary auditory cortex? Organization for Human Brain Mapping Annual Meeting, Barcelona, Spain, June 6 – June 11, 2010

Davis, MH, Ford, MA.,Kherif, F, Johnsrude, IS. (2010). The magnitude and timing of fMRI responses to distorted speech is modulated by sentence content Organization for Human Brain Mapping Annual Meeting, Barcelona, Spain, June 6 – June 11 2010.

Johnsrude IS, Davis MH, Rodd JM &Hakyemez, H. (2010). Semantic ambiguity as a factor influencing speech comprehension in noise. "Psycholinguistic approaches to speech recognition in adverse conditions" workshop, Bristol, UK, 8-10 March 2010.

Rodd JM, Johnsrude IS, Ford M, & Davis MH. (2010). The role of domain-general frontal systems in language comprehension: Evidence from dual-task interference and semantic ambiguity. "Psycholinguistic approaches to speech recognition in adverse conditions" workshop, Bristol, UK, 8-10 March 2010.

Hervais-Adelman A, Johnsrude IS, Carlyon RP & Davis MH. (2010) Effortful comprehension of noise vocoded speech recruits a speech-motor network. "Psycholinguistic approaches to speech recognition in adverse conditions" workshop, Bristol, UK, 8-10 March 2010.

Tahmasebi A, Abolmaesumi P, Morosan P, & Johnsrude IS. (2009) A New Approach for Creating Customizable Cytoarchitectonic Probabilistic Maps of the Primary Auditory Cortex with Quantification of the Goodness of Fit. British Society for Audiology Meeting, Southampton UK Sept 2009.

Tahmasebi AM, Abolmaesumi P, Vikal S, & Johnsrude IS. An Automatic Model-based Segmentation Technique for the Extraction of the First Heschl'sGyrus in Human Auditory Cortex from MR Images", 15th Annual Meeting for Human Brain Mapping, San Francisco, June 18-23 2009.

Alexander EM, Trimmer CG, Cuddy LL, & Johnsrude IS. Emotional cues in speech are not solely in the fundamental frequency contour. *Canadian Psychological Association Annual Meeting,* 2009.

Bowes J, Klar S, Stroman P, Johnsrude, I & Garcia A. Neural Correlates of Focused Attention in Cognitively Normal Older Adults. *International Association of Gerontology and Geriatrics* (IAGG) 2009 World Congress

Kitada R, Johnsrude IS, Kochiyama K, & Lederman, SJ. Brain networks involved in haptic and visual identification of facial expressions of emotion: An fMRI study. *Society for Neuroscience* Annual Meeting, Nov 15-19, 2008, Washington DC.

Trimmer C**, Alexander E,** Johnsrude IS, & Cuddy, L. Recognition of the emotional tone of utterances depends on more than the fundamental contour. Music and Language II: A conference in celebration of the 25th Anniversary of Lerdahl and Jackendoff's "A Generative Theory of Tonal Music" Tufts University Perry and Marty Granoff Music Center; Boston, Massachusetts July 10-13 2008.

Tahmasebi AM, Abolmaesumi P, & Johnsrude, IS "Automatic Classification of Variability in Human Brain Anatomy Across Subjects", *Institute for Robotics and Intelligent Systems* (IRIS)/Precarn Conf., 2006.

Hawkins S & Johnsrude IS. Distributed auditory processing is compatible with the information conveyed by the acoustic-phonetic properties of the speech signal. *International Conference on the Auditory Cortex.The Listening Brain*. Grantham, UK, 17th - 21st September 2006.

Johnsrude IS & Davis MH. An fMRI study of the facilitative effect of sentence-level meaning on comprehension of speech in noise.*Aging and Speech Communication, An International and Interdisciplinary Research Conference,* Oct 9-12, 2005, Indiana University, Bloomington.

Davis MH, **Hervais-Adelman A, Taylor K,** Carlyon RP, & Johnsrude, IS. Transfer of perceptual learning of vocoded speech: Evidence for abstract pre-lexical representations. *Plasticity in Speech Perception* meeting,University College London, UK, June 14-17, 2005.

Johnsrude IS, Davis MH, & Horwitz, B. Temporofrontal functional connectivity is modulated by sentence intelligibility. *Plasticity in Speech Perception* meeting, University College London, UK, June 14-17, 2005.

Purcell DW, Johnsrude IS, & Munhall, KG. Perception of altered formant feedback influences speech production. *Plasticity in Speech Perception* meeting, University College London, UK, June 14-17, 2005.

McGettigan C, Davis MH, Johnsrude IS, & **Taylor K.** Lexical information drives perceptual learning of distorted speech: evidence from the comprehension of noise-vocoded sentences. *Experimental Psychology Society* meeting, London, January 2005.

Davis MH, **Taylor K, McGettigan C**, & Johnsrude, IS. Lexically driven perceptual learning in speech perception: Evidence from noise-vocoded speech. *Annual meeting of the Psychonomic Society*, Minneapolis, Nov 2004.

Davis MH, Johnsrude IS, & Horwitz, B. Functional connectivity between posterior temporal and frontal regions is modulated by sentence intelligibility. *Society for Neuroscience* Annual Meeting, San Diego, Oct 2004, 477.5 (Slide presentation given by I Johnsrude).

Davis MH, **Taylor K**, Johnsrude IS, Carlyon RP. How do cochlear implant users learn to understand speech? Transfer of learning between different carriers with vocoded speech. *British Society for Audiology* Meeting, Scotland, September 2004.

Hervais-Adelman A, Davis MH, Johnsrude IS, Carlyon RP. How do cochlear implant users learn to understand speech?: Results from a study using noise-vocoded single words. *British Society for Audiology* Meeting, Scotland, September 2004.

Johnsrude IS, Uppenkamp S, **Hervais-Adelman A**, Patterson RD. Relating patterns of activation elicited by pitch, melody and vowel sounds to the anatomical parcellation of human auditory cortex. *2nd Vogt-Brodmann Symposium: The convergence of structure and function*. Jülich, Germany, April 2004.

Davis MH, **Hervais-Adelman A, Brent L** & Johnsrude, IS. Factors that influence (facilitate) learning to understand distorted speech. *Experimental Psychology Society* Meeting, London, Jan 2004.

Johnsrude IS, Davis MH, **Hervais-Adelman A,** & Rodd, J. fMRI studies of hierarchical processing in speech comprehension. *International Conference on Auditory Cortex*: Magdeburg, Germany Sept 2003.

Johnsrude IS, & Davis MH. From sound to meaning: Hierarchical processing in speech comprehension. 13th *International Symposium on Hearing*, Dourdan, France, August 2003.

Davis MH, **Hervais-Adelman A, Brent L.** & Johnsrude IS. Adaptation to noise-vocoded speech: perceptual learning depends on lexical feedback. *13th Congress of the European Society of Cognitive Psychology* (ESCOP) 2003.

Davis MH, & Johnsrude IS. Hierarchical processes in spoken language comprehension, April 2003 meeting of the *Experimental Psychology Society*, Exeter, UK. 2003

Davis MH, & Johnsrude IS. "Acoustic and Linguistic Processes in Spoken Language Comprehension". *EURESCO Research Workshop: The Science of Aphasia.*Maratea, Italy, 2002.

Cox SML & Johnsrude IS. Learning to like: Imaging conditioned reward. *30th Annual Scientific Meeting of the British Psychophysiology Society*, Glasgow Scotland, Sept 2002. (Invited talk given by S Cox).

Rodd JM, Davis MH, Johnsrude IS, & Owen AM. An fMRI study of semantic ambiguity.*Society for Neuroscience* Abstracts, 27, 949.7, November 2002, Orlando Florida.

Cox SML, Andrade A, & Johnsrude IS. Functional imaging of conditioned preferences. *Society for Neuroscience* Abstracts, 27, 949.7, November 2002, Orlando Florida.

Johnsrude IS, Davis MH, **Hervais-Adelman A,** & **Brent L**. Adaptation to noise-vocoded speech in normal listeners: perceptual learning depends on lexical feedback. *British Society of Audiology Short Papers Meeting*, Sept 14-15, 2002, Sheffield, UK.

Davis, MH, Johnsrude IS. Effortful understanding: An fMRI study of the perception of distorted speech. *ISCA Workshop on Temporal Integration in the Perception of Speech (TIPS)* Aix-en-Provence, France 8-10 Apr 2002.

Johnsrude IS, Gustard S, Bullmore E, Gillard J, & Pickard J. A functional magnetic resonance imaging battery for preoperative mapping of motor, motor planning and language function in the cortex. *British Institute of Radiology*, London UK, Nov 2001.

Gustard S, Johnsrude I, Gillard J, Donovan T, Bullmore E, & Pickard, J. A functional magnetic resonance imaging battery for preoperative mapping of motor, motor planning and language function in the cortex. *British Chapter of the International Society for Magnetic Resonance in Medicine*, Cambridge, UK Sept 2001.

Uppenkamp S, Patterson R, Johnsrude IS, Norris D, & Marslen-Wilson, W. Searching for phonological processing in the human brain using natural and synthesized vowels*British Society of Audiology Short Papers Meeting*, Oxford UK, Sept 2001.

Cusack R, Carlyon RP, Johnsrude IS, & Epstein R. Functional interaction between left and right auditory pathways in or before auditory cortex demonstrated using fMRI. *Society for Neuroscience*, San Diego USA, November, 2001.

Davis MH, Henson RNA, Johnsrude IS, & Rugg MD. Priming effects in single-word reading: an event-related fMRI study. *Society for Neuroscience*, San Diego USA, November, 2001.

Johnsrude IS, Davis MH, **Dilks PJ,** & **Turnbull IJ**. Imaging effort and intelligibility in spoken language comprehension: an fMRI study. *Society for Neuroscience*, San Diego USA, November, 2001.

Good CD, Johnsrude IS, Ashburner J, Friston KJ, & Frackowiak RSJ. Cerebral asymmetry: a voxel based morphometry study of 465 normal adult human brains. *International Society for Magnetic Resonance in Medicine*, Glasgow UK, June, 2001.

Johnsrude IS, Morosan P, Cusack R, Brett M, Ashburner J, Zilles K, & Frackowiak, RSJ. (2000). Functional specialisation within three cytoarchitectonically defined primary auditory cortical areas in humans. *Society for Neuroscience* Abstracts, 26:737.15

Patterson RD, Uppenkamp S, Norris D, Marslen-Wilson W, Johnsrude IS & Williams, E. (2000). Phonological processing in the auditory system: A new class of stimuli and advances in fMRI techniques. *International Conference on Speech and Language Processing (ICSLP)* Beijing, China, Oct 2000.

Haggard MP, Gonçalves M, Hall D, Johnsrude IS. Can meaningful effective connectivities be between auditory cortex fields? Issues in subject variability. *British Society for Audiology Short Papers Meeting,* Keele, Staffs Sept 2000.

Hall DA, Johnsrude IS, Gonçalves MS, Haggard MP, Palmer AR, & Summerfield AQ. FMRI mapping of responses to spectral and temporal complexity. *British Society of Audiology Short Paper Meeting*, Keele, Staffs Sept 2000.

Johnsrude IS, **Good C,** Ashburner J & Frackowiak, RSJ. (1999).A voxel-based morphometry study of 100 normal adult human brains.*Society for Neuroscience* Abstracts, 25.

Wadley J, Johnsrude IS, Athwal B, Breeuwer M, Kitchen N, Powell M, & Thomas D. (1999) Interactive functional MRI localization of sensorimotor and language cortex during brain tumour resection in eloquent areas. *Congress of Neurological Surgeons*, Boston, MA. Nov.

Frackowiak RSJ, Johnsrude IS, Kiebel S, McGonigle D, **Good C,** & Ashburner J. (1999). Brain function and cytoarchitectonics: Insights from functional neuroimaging. Invited talk at: *First Vogt-Brodmann symposium: Perspectives of architectonic brain mapping*. C. und O. Vogt Institüt für Hirnforschung, Heinrich Heine Universität, Düsseldorf, Germany, 20-21 June.

Johnsrude IS & Zatorre RJ (1997). Damage to right primary auditory cortex in humans impairs judgement of direction of pitch change, but not pitch discrimination or gap detection. *Society for Neuroscience* Abstracts, 23: 804.4.

Klein D, Milner BA, Zatorre RJ, Johnsrude IS, Olivier A, Petrides M, Taylor L, Meyer E, & Evans AC (1997). CBF changes during word-generation in presurgical seizure patients. *Society for Neuroscience* Abstracts, 23: 416.7

Johnsrude IS, **Zhao WV,** Owen AM & White NM (1996). Conditioned preference without awareness in humans. *Society for Neuroscience* Abstracts, 22:176.9.

Johnsrude IS & Milner BA (1995). Performance of auditory and visual lexical-decision tasks after anterior temporal-lobe resection. *Society for Neuroscience* Abstracts, 21:279.2.