Virginia Best, PhD

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Education

2004 PhD, Faculty of Medicine, University of Sydney, Australia
1999 Bachelor of Medical Science (First Class Honours), University of Sydney, Australia

Appointments

2014 – Research Associate Professor, Department of Speech, Language and Hearing Sciences, Boston University, Boston, MA
2011 – 2013 Research Scientist, National Acoustic Laboratories, Sydney, Australia
2010 – 2011 Research Assistant Professor, Department of Speech, Language and Hearing Sciences, Boston University, Boston, MA
2007 – 2010 Research Fellow, School of Medical Sciences, University of Sydney, Sydney, Australia
2004 – 2007 Research Associate, Department of Cognitive and Neural Systems, Boston University, Boston, MA

Awards and Honors

2019 Fellow of the Acoustical Society of America
2012 Burt Evans Young Investigator Award, National Organization for Hearing Research
2006 ARO Travel Award, Association for Research in Otolaryngology
2005 Women in Acoustics Travel Award, Acoustical Society of America
2004 University Medal, University of Sydney
2000 Australian Postgraduate Award, University of Sydney

Research Funding

Current

2023 – 2028 NSF NCS-FR 2319321 (MPIs Sen, Boas, Gritton, Best)
Engineering brain circuits for complex scene analysis
Total costs: $2,961,895

2023 – 2025 William Demant Foundation (MPIs Best and Sen)
Benefits of gaze-informed hearing-aid processing for enhancing conversational speech
Total costs: $208,795

2023 – 2027 Marie Skłodowska-Curie Actions Staff Exchange (PI Kopčo, co-I Best)
Spatial audio virtualization and gamification for hearing assessment and enhancement
Total costs: $550,000

2020 – 2024 Independent Research Fund Denmark (MPIs Neher, Dau, Best)
Tackling speech perception challenges due to reverberation and hearing loss: Perceptual mechanisms and hearing-aid solutions
Total costs: $400,000

2016 – 2026 NIH NIDCD R01 DC015760 (PI Best)
Spatial hearing in speech mixtures
Total costs: $3,638,198

2014 – 2024 NIH NIDCD R01 DC013286 (MPIs Kidd and Best)
Top-down control of selective amplification
Total costs: $6,044,098

Submitted

2024 NIH NIDCD R01 (PI Calandruccio, co-I Best)
Leveraging artificial intelligence to improve the assessment of masked-speech perception and to support individualized hearing healthcare for linguistically diverse populations

Total costs: $3,304,089

Completed

2023 American Hearing Research Foundation Discovery Grant (MPIs Sen, Boas, Lewis, Best)
Investigating auditory scene analysis in humans with wearable fNIRS and EEG
Total costs: $50,000

2018 – 2020 Fondation Pour L'Audition (PI Lavandier, co-I Best)
Speech2Ears: A predictive model to support hearing-aid processing restoring spatial perception for speech recognition in realistic environments
Total costs: $265,633

2017 – 2022 NIH NIDCD R01 DC04545 (PI Kidd, co-I Best)
Central factors in auditory masking
Total costs: $2,797,653

2014 – 2017 Oticon Foundation (MPIs Buchholz, Keidser, Best, Dillon)
Measuring listening ability and hearing aid benefit using simulated real-world environments
Total costs: $338,258

2014 – 2016 Hearing Industry Research Consortium (MPIs Best, Keidser, Buchholz, Freeston)
A dynamic speech comprehension task for assessing real-world listening ability and hearing aid benefit
Total costs: $156,168

2008 – 2009 University of Sydney Postdoctoral Research Fellowship (PI Best)
Communication in listeners with hearing impairment: The interaction of degraded inputs with attention and working memory
Total costs: $200,000

2008 Australian Academy of Science Grant for Scientific Visits to Europe (PI Best)
Total costs: $8,000

2008 Asian Office of Aerospace R&D Window on Science Grant (PI Best)
Total costs: $3,000

Workshops and Training

2021 Provost Mentor Fellows Program, Boston University, Boston, MA
2012 Digital Signal Processing for MATLAB, MathWorks, Sydney, Australia
2006 Summer Institute in Cognitive Neuroscience, Dartmouth, NH
2001 Neuromorphic Engineering Workshop, Telluride, CO

Professional Affiliations

Acoustical Society of America
Association for Research in Otolaryngology

Professional Service

Grant Reviewing

2024 – 2028 Standing Panel Member, Auditory Study Section, National Institute on Deafness and Other Communication Disorders
Ad hoc Reviewer, National Institutes of Health; American Speech-Language-Hearing Foundation; Action on Hearing Loss

Journal Editing and Reviewing

2020 – 2023 Associate Editor, Trends in Hearing
2013 – 2019 Associate Editor, Journal of the Acoustical Society of America
Ad hoc Reviewer, Journal of the Acoustical Society of America; Journal of the Association for Research in Otolaryngology; Acta Acustica; Hearing Research; Ear and Hearing; International Journal of Audiology; Trends in Hearing; Journal of Speech, Language, and Hearing Research; Attention, Perception and Psychophysics; Frontiers in Neuroscience; PLOS ONE; Nature Scientific Reports

Professional Organizations

2024 Invited Participant, Strategic Plan Meeting, Acoustical Society of America, 29-31 July 2024
2023 – 2026 Elected Member, Meetings Committee, Acoustical Society of America
2020 – 2023 Chair, Technical Committee on Psychological and Physiological Acoustics, Acoustical Society of America
2011 – 2013 Elected Member, Technical Committee on Psychological and Physiological Acoustics, Acoustical Society of America

Conferences

2025 International Steering Committee, International Symposium on Hearing, Vienna, Austria
2025 Session Organizer, 188th Meeting of the Acoustical Society of America, New Orleans, LA
2023 Session Organizer, 184th Meeting of the Acoustical Society of America, Chicago, IL
2020 – 2024 Organizing Committee, Binaural Bash
2022 – 2024 Steering Committee, International Hearing Aid Research Conference
2022 – 2024 Scholarship Committee, International Hearing Aid Research Conference

2018 Technical Co-Chair, International Hearing Aid Research Conference, Lake Tahoe, CA
2017 Session Organizer, International Forum for Hearing Instrument Developers, Oldenburg, Germany
2009 Technical Committee Member, International Workshop on the Principles and Applications of Spatial Hearing, Sendai, Japan
2007 Session Organizer, International Congress on Acoustics, Madrid, Spain
2001 – 2002 Organizing Committee, Institute for Biomedical Research Annual Conference, University of Sydney, Australia

Sargent College

2021 – 2024 Reviewer, Sargent Internal Grants

Teaching

Course Instruction

Research Methods in Speech-Language Pathology and Audiology, Boston University (Fall 2024)
Human Biology, University of Sydney (Summer 2003, 2004)

Casual Teaching

Guest Lecturer, Neural Coding and Auditory Perception, Massachusetts Institute of Technology (2007)
Guest Lecturer, Engineering Physiology, Boston University (2006)
Laboratory Tutor, Neuroscience, University of Sydney (1999-2009)

Mentorship

Early Career Mentorship

Tess Koerner, Department of Veterans Affairs Career Development Award (current)

Postdoctoral Advising

Pinar Ertürk, Boston University (current)
Sreeram Narayanan, Technical University of Denmark (current)
Axel Ahrens, Southern University of Denmark (2021-2022)
Lucas Baltzell, Boston University (2018-2021)

PhD Thesis Committees

Alex Boyd, Biomedical Engineering, Boston University (current)
Tobias Greif, Austrian Academy of Sciences (current)
Christopher Conroy, Sargent College, Boston University (2022)
Luna Prud'homme, ENTPE, University of Lyon (2021)
Kenny Chou, Biomedical Engineering, Boston University (2020)
Lengshi Dai, Biomedical Engineering, Boston University (2018)
Junzi Dong, Biomedical Engineering, Boston University (2017)
Tobias Weller, Department of Linguistics, Macquarie University (2015)
Nathanial Spencer, Biomedical Engineering, Boston University (2013)

Leonard Varghese, Biomedical Engineering, Boston University (2013)

Master's Thesis Committees

Joyce Chung, Sargent College, Boston University (current)
Stella Lue Shen, Sargent College, Boston University (2020)
Maya Saupe, Sargent College, Boston University (2020)
Rita Sio Nga Kou, Sargent College, Boston University (2019)
Isabelle Nastaskin, Sargent College, Boston University (2019)

Thesis Examination

Janani Fernandez, School of Electrical Engineering, Aalto University, Finland (PhD, 2024)
Alan Yaoyuan Ren, School of Psychological Sciences, Macquarie University, Australia (Master's, 2024)
Taeho Kim, School of Electrical Engineering, Aalto University, Finland (PhD, 2024)
Naim Mansour, Department of Health Technology, Technical University of Denmark, Denmark (PhD, 2021)
Henri Pöntynen, School of Electrical Engineering, Aalto University, Finland (PhD, 2021)
Julianne Beadle, MARCS Institute for Brain, Behaviour, and Development, Western Sydney University, Australia (PhD, 2019)
Aswin Wijetillake, Hearing CRC, University of Melbourne, Australia (PhD, 2019)
Beáta Tomoriová, Electrical Engineering and Informatics, Technical University of Košice, Slovakia (PhD, 2013)

Invited Talks

1. Sound externalization when listening through hearing aids. Acoustics Group, Aalto University, Finland, 30 May 2024.
2. When and why do hearing aids disrupt sound externalization? 5th Workshop on Cognitive Neuroscience of Auditory and Cross-modal Perception, Košice, Slovakia, 15 April 2024.
3. Investigating cocktail party listening using glimpsed speech. Eriksholm Research Center, Denmark, 21 August 2023.
4. Informational masking and speech intelligibility. CeLyA Summer School 2023: Hearing in Noise, Lyon, France, 12 June 2023.
5. Speech-on-speech masking. University of Oldenburg Collaborative Research Centre Colloquium, Online, 3 May 2022.
6. How eye position can improve cocktail party listening. Speech and Hearing Science Colloquium, Arizona State University, Online, 25 November 2020.
7. How eye position can improve cocktail party listening. Ear2Brain Lecture Series, Pittsburgh Area Cognitive Neuroscience cluster, Online, 2 November 2020.
8. Attention-guided hearing aids. 5th Annual Auditory and Vestibular Translational Research Day, University of Maryland, Baltimore, MD, 18 November 2019.
9. Investigating a visually guided hearing aid. 4th Workshop on Cognitive Neuroscience of Auditory and Cross-modal Perception, Košice, Slovakia, 3 June 2019.
10. Spatial hearing, hearing loss and hearing aids. American Speech-Language-Hearing Association Convention, Boston, MA, 17 November 2018.
11. Spatial hearing, hearing loss and hearing aids. International Hearing Aid Research Conference, Lake Tahoe, CA, 17 August 2018.
12. Investigating a visually guided hearing aid. Hearing Research Center Seminar Series, Boston University, Boston, MA, 29 September 2017.
13. Audibility and spatial release from masking. Hearing Research Center Seminar Series, Boston University, Boston, MA, 10 April 2015.
14. Spatial hearing: Effect of hearing loss, hearing aids and bilateral coordination. Nordic Audiology College, Bålsta, Sweden, 20 September 2012.
15. Psychophysical tests in simulated real-world environments. Hearing Research Center Seminar Series, Boston University, Boston, MA, 26 June 2012.
16. The relationship between spectro-temporal overlap and spatial unmasking. Heuser Hearing Institute Symposium, Louisville, KY, 15 April 2011.
17. How hearing loss affects complex aspects of communication. Starkey Research Laboratories, Berkeley, CA, 4 June 2010.

18. How hearing loss affects complex aspects of communication. Psychoacoustics Group, Michigan State University, East Lansing, MI, 12 May 2010.
19. Hearing loss and cognition. MARCS 10th Anniversary Celebration, University of Western Sydney, Milperra, Australia, 20 July 2009.
20. Effects of hearing impairment on selective and divided listening in speech mixtures. Acoustics Australia Technical Meeting, Sydney, Australia, 3 June 2008.
21. The impact of hearing impairment on selective and divided attention. National Acoustic Laboratories, Sydney, Australia, 29 January 2008.
22. Divided listening in auditory displays, International Congress on Acoustics, Madrid, Spain, 4 September 2007.
23. The role of spatial hearing with natural stimuli and complex environments. Acoustics Research Institute, Vienna, Austria, 24 November 2005.
24. Sharing auditory space. International Workshop on Spatial and Binaural Hearing, Utrecht, The Netherlands, 16 June 2003.

Publications

Book Chapters

1. **Best V**, Goupell MJ and Colburn HS (2021). Binaural hearing and across-channel processing. In: Binaural Hearing, Springer Handbook of Auditory Research 73, Litovsky R et al. (eds.). Switzerland: Springer, Chapter 7, pp. 181-207.
2. Gallun FJ and **Best V** (2020). Age-related changes in segregation of sound sources. In: Aging and Hearing: Causes and Consequences, Springer Handbook of Auditory Research 72, Helfer KS et al. (eds.). Switzerland: Springer, Chapter 7, pp. 143-171.
3. Lavandier M and **Best V** (2020). Modeling binaural speech understanding in complex situations. In: The Technology of Binaural Understanding, Blauert J and Braasch J (eds.), Switzerland: Springer, Chapter 19, pp. 547-578.
4. Shinn-Cunningham BG, **Best V** and Lee AKC (2017). Auditory object formation and selection. In: The Auditory System at the Cocktail Party, Middlebrooks JC, Simon JZ, Popper AN and Fay RR (eds.). Switzerland: Springer, pp. 7-40.
5. **Best V**, Mason CR, Swaminathan J, Kidd Jr G, Jakien JM, Kampel SD, Gallun FJ, Buchholz JM and Glyde H (2016). On the contribution of target audibility to performance in spatialized speech mixtures. In: Physiology, Psychoacoustics and Cognition in Normal and Impaired Hearing. Advances in Experimental Medicine and Biology 894, van Dijk P, Baskent D, Gaudrain E, de Kleine E, Wagner A and Lanting C (eds.). New York: Springer, pp. 83-91.
6. Shinn-Cunningham BG and **Best V** (2015). Auditory selective attention. In: The Handbook of Attention, Fawcett J, Risko E and Kingstone A (eds.), Cambridge: MIT Press, pp. 99-118.
7. Jin C, Lin G. **Best V** and Carlile S (2011). Spatial unmasking of speech based on near-field distance cues. In: Biomedical Engineering, A. McEwan and G. Gargiulo (eds.), Sydney: IntechOpen, pp. 3-20.
8. **Best V**, Brungart DS, Carlile S, Jin C, Macpherson EA, Martin RL, McAnally KI, Sabin AT and Simpson BD (2011). A meta-analysis of localization errors made in the anechoic free field. In: Principles and Applications of Spatial Hearing, Suzuki Y, Brungart DS, Iwaya Y, Iida K, Cabrera D and Kato H (eds.). Singapore: World Scientific, pp. 14-23.
9. Alais D, **Best V**, Niall P, Semmler C and Woolford D (2010). Hearing and the perception of sound. In: Expert Evidence, Freckleton I and Selby H (eds.), Australia: Thompson Reuters, pp. 145-1-145-13058.
10. Peres SC, **Best V**, Brock D, Frauenberger C, Hermann T, Neuhoff JG, Valgerdaeur L, Shinn-Cunningham BG and Stockman T (2008). Auditory interfaces. In: HCI Beyond the GUI: Design for Haptic, Speech and Other Non-traditional Interfaces, Kortum P (ed.), Burlington MA: Morgan Kaufmann, pp. 147-195.
11. Shinn-Cunningham BG, **Best V**, Dent ML, Gallun FJ, McClaine EM, Narayan R, Ozmeral EJ and Sen K (2007). Behavioral and neural identification of birdsong under several masking conditions. In: Hearing – From Sensory Processing to Perception, Kollmeier B, Klump G, Hohmann V, Langemann U, Mauermann M, Uppenkamp S and Verhey J (eds.). Berlin: Springer Verlag, pp. 207-214.

Journal Articles

1. **Best V** and Conroy C (2024). Relating monaural and binaural measures of modulation sensitivity in listeners with and without hearing loss. Journal of the Acoustical Society of America 156:1543-1551.

2. Roverud E and **Best V** (2024). Effect of hearing aids on the externalization of everyday sounds. JASA Express Letters 4:094401.
3. **Best V**, Ahlstrom JB, Mason CR, Perrachione TK, Kidd G, Dubno JR (2024). Talker change detection by listeners varying in age and hearing loss. Journal of the Acoustical Society of America 155(4):2482-2491.
4. **Best V** and Roverud E (2024). Externalization of speech when listening with hearing aids. Trends in Hearing 28:23312165241229572.
5. Miles KM, **Best V** and Buchholz JM (2024). Feasibility of an adaptive version of the Everyday COnversational Sentences in Noise (ECO-SiN) test. Journal of Speech, Language, and Hearing Research 67(2):680-687.
6. Andrejková G, **Best V** and Kopčo N (2023). Timescales of adaptation to context in horizontal sound localization. Journal of the Acoustical Society of America 154(4):2191-2202.
7. **Best V**, Boyd AD and Sen K (2023). An effect of gaze direction in cocktail party listening. Trends in Hearing 27:23312165231152356.
8. Baltzell L, Cardosi D, Swaminathan J, **Best V** (2022). Binaural consequences of speech envelope enhancement. JASA Express Letters 2(11):11440.
9. Chou KF, Boyd AD, **Best V**, Colburn HS and Sen K (2022). A biologically oriented algorithm for spatial sound segregation. Frontiers in Neuroscience 16:1004071.
10. Prud'homme L, Lavandier M and **Best V** (2022). Investigating the role of harmonic cancellation in speech-on-speech masking. Hearing Research 426:108562.
11. Prud'homme L, Lavandier M and **Best V** (2022). A dynamic binaural harmonic-cancellation model to predict speech intelligibility against a harmonic masker varying in intonation, temporal envelope, and location. Hearing Research 426:108535.
12. **Best V**, Baltzell L, Colburn HS (2022). Effects of hearing loss on interaural time difference sensitivity at low and high frequencies. Trends in Hearing 26:23312165221095357.
13. Miles KM, Beechey T, **Best V**, Buchholz JM (2022). Measuring speech intelligibility and hearing-aid benefit using everyday conversational sentences in real-world environments. Frontiers in Neuroscience 16:789565.
14. Goupell MJ, **Best V**, Colburn HS (2021). Intracranial lateralization bias observed in the presence of symmetrical hearing thresholds. JASA Express Letters 1(10):104401.
15. Baltzell LS and **Best V** (2021). High-resolution temporal weighting of interaural time differences in speech. Journal of the Acoustical Society of America 150(2):1311–1320.
16. Lavandier M, Mason CR, Baltzell LS and **Best V** (2021). Individual differences in speech intelligibility at a cocktail party: a modelling perspective. Journal of the Acoustical Society of America 150(2):1076–1087.
17. Jett B, Buss E, **Best V**, Oleson J and Calandruccio L (2021). Does sentence-level coarticulation affect speech recognition in noise or a speech masker? Journal of Speech, Language and Hearing Research 64(4):1390-1403.
18. Prud'homme L, Lavandier M and **Best V** (2020). A harmonic-cancellation-based model to predict speech intelligibility against a harmonic masker. Journal of the Acoustical Society of America 148(5):3246–3254.
19. **Best V**, Baumgartner R, Lavandier M, Majdak P and Kopčo N (2020). Sound externalization: a review of recent research. Trends in Hearing 24:2331216520948390.
20. Baltzell LS, Cho A, Swaminathan J and **Best V** (2020). Spectro-temporal weighting of interaural time differences in speech. Journal of the Acoustical Society of America 147(6):3883–3894.
21. Conroy C, Jennings TR, **Best V** and Kidd Jr G (2020). The importance of processing resolution in "ideal time-frequency segregation" of masked speech and the implications for predicting speech intelligibility. Journal of the Acoustical Society of America 147(3):1648-1660.
22. Baltzell LS, Swaminathan J, Cho A, Lavandier M and **Best V** (2020). Binaural sensitivity and release from speech-on-speech masking in listeners with and without hearing loss. Journal of the Acoustical Society of America 147(3):1546–1561.
23. Miles K, Buchholz JM, Keidser G, Freeston K, Beechey T and **Best V** (2020). Development of the Everyday COnversational Sentences in Noise (ECO-SiN) test. Journal of the Acoustical Society of America 147(3):1562–1576.
24. Buchholz JM and **Best V** (2020). Speech detection and localization in a reverberant multitalker environment by normal-hearing and hearing-impaired listeners. Journal of the Acoustical Society of America 147(3):1469–1477.
25. **Best V**, Conroy C and Kidd Jr G (2020). Can background noise increase the informational masking in a speech mixture? Journal of the Acoustical Society of America 147(2):EL144–EL150.

26. Wang L, **Best V** and Shinn-Cunningham BG (2020). Benefits of beamforming with local spatial-cue preservation for speech localization and segregation. Trends in Hearing 24:2331216519896908.
27. **Best V**, Roverud E, Baltzell L, Rennies J and Lavandier M (2019). The importance of a broad bandwidth for understanding “glimpsed” speech. Journal of the Acoustical Society of America 146(5):3215–3221.
28. **Best V** and Swaminathan J (2019). Revisiting the detection of interaural time differences in listeners with hearing loss. Journal of the Acoustical Society of America 145(6):EL508-EL513.
29. Rennies J, **Best V**, Roverud E, Kidd Jr G (2019). Energetic and informational components of speech-on-speech masking in binaural speech intelligibility and perceived listening effort. Trends in Hearing 23:2331216519854597.
30. Kidd Jr G, Mason CR, **Best V**, Roverud E, Swaminathan J, Jennings T, Clayton K and Colburn HS (2019). Determining the energetic and informational components of speech-on-speech masking in listeners with sensorineural hearing loss. Journal of the Acoustical Society of America 145(1):440-457.
31. Cubick J, Buchholz JM, **Best V**, Lavandier M and Dau T (2018). Listening through hearing aids affects spatial perception and speech intelligibility in normal-hearing listeners. Journal of the Acoustical Society of America 144(5):2896–2905.
32. **Best V**, Swaminathan J, Kopčo N, Roverud E and Shinn-Cunningham BG (2018). A “buildup” of speech intelligibility in listeners with normal hearing and hearing loss. Trends in Hearing 22:2331216518807519.
33. Dai L, **Best V** and Shinn-Cunningham BG (2018). Sensorineural hearing loss degrades behavioral and physiological measures of human spatial selective auditory attention. Proceedings of the National Academy of Sciences 115(14):E3286-E3295.
34. **Best V**, Ahlstrom JB, Mason CR, Roverud E, Perrachione TK, Kidd Jr G and Dubno JR (2018). Talker identification: Effects of masking, hearing loss, and age. Journal of the Acoustical Society of America 143(2):1085-1092.
35. Roverud E, **Best V**, Mason CR, Streeter T and Kidd Jr G (2018). Evaluating the performance of a visually guided hearing aid using a dynamic auditory-visual word congruence task. Ear and Hearing 39(4):756-769.
36. **Best V**, Keidser G, Freeston K, Buchholz JM (2018). Evaluation of the NAL Dynamic Conversations Test in older listeners with hearing loss. International Journal of Audiology 57(3):221-229.
37. **Best V**, Roverud E, Mason CR and Kidd Jr G (2017). Examination of a hybrid beamformer that preserves auditory spatial cues. Journal of the Acoustical Society of America 124:EL369-EL374.
38. Baumgartner R, Reed DK, Tóth B, **Best V**, Majdak P, Colburn HS, Shinn-Cunningham B (2017). Asymmetries in behavioral and neural responses to spectral cues demonstrate the generality of auditory looming bias. Proceedings of the National Academy of Sciences 114(36):9743-9748.
39. Kopčo N, Andrejková G, **Best V** and Shinn-Cunningham BG (2017). Streaming and sound localization with a preceding distractor. Journal of the Acoustical Society of America 141(4):EL331:EL337.
40. **Best V**, Mason CR, Swaminathan J, Roverud E and Kidd Jr G (2017). Use of a glimpsing model to understand the performance of listeners with and without hearing loss in spatialized speech mixtures. Journal of the Acoustical Society of America 141:81-91.
41. **Best V**, Roverud E, Streeter T, Mason CR and Kidd Jr G (2017). The benefit of a visually guided beamformer in a dynamic speech task. Trends in Hearing 21:2331216517722304.
42. **Best V**, Streeter T, Roverud E, Mason CR and Kidd Jr G (2016). A flexible question-and-answer task for measuring speech understanding. Trends in Hearing 20:2331216516678706.
43. Swaminathan J, Mason CR, Streeter T, **Best V**, Roverud E and Kidd Jr G (2016). Role of binaural temporal fine structure and envelope cues in cocktail-party listening. Journal of Neuroscience 36(31):8250-8257.
44. Weller T, Buchholz JM, **Best V**, Young T (2016). A method for assessing auditory spatial analysis in reverberant multi-talker environments. Journal of the American Academy of Audiology 27(7):601-611.
45. Kidd Jr G, Mason CR, **Best V**, Swaminathan J, Roverud E and Clayton KK (2016). Determining the energetic and informational components of speech-on-speech masking. Journal of the Acoustical Society of America 140(1):132-144.
46. **Best V**, Keidser G, Freeston K and Buchholz JM (2016). A dynamic speech comprehension test for assessing real-world listening ability. Journal of the American Academy of Audiology 27(7):515-526.
47. Roverud E, **Best V**, Mason CR, Swaminathan J, Kidd Jr G (2016). Informational masking in normal-hearing and hearing-impaired listeners measured in a nonspeech pattern identification task. Trends in Hearing 20:2331216516638516.

48. Weller T, Buchholz JM and **Best V** (2016). Auditory masking of speech in reverberant multi-talker environments. Journal of the Acoustical Society of America 139(3):1303–1313.
49. **Best V**, Keidser G, Buchholz JM and Freeston K (2016). Development and preliminary evaluation of a new test of ongoing speech comprehension. International Journal of Audiology 55(1):45-52.
50. Glyde H, Buchholz JM, Nielsen L, **Best V**, Dillon H, Cameron S and Hickson L (2015). Effect of audibility on spatial release from speech-on-speech masking. Journal of the Acoustical Society of America 138(5):3311-3319.
51. Kidd Jr G, Mason CR, **Best V** and Swaminathan J (2015). Benefits of acoustic beamforming for solving the cocktail party problem. Trends in Hearing 19:2331216515593385.
52. Swaminathan J, Mason CR, Streeter T, **Best V**, Kidd Jr G and Patel AD (2015). Musical training, individual differences and the cocktail party problem. Scientific Reports 5:11628.
53. **Best V**, Mason CR, Kidd Jr G, Iyer N and Brungart DS (2015). Better-ear glimpsing in hearing-impaired listeners. Journal of the Acoustical Society of America 137(2):EL213-EL219.
54. Keidser G, **Best V**, Freeston K, Boyce A (2015). Cognitive Spare Capacity: Evaluation data and its association with comprehension of dynamic conversations. Frontiers in Psychology, Auditory Cognitive Neuroscience 6:597.
55. **Best V**, Keidser G, Buchholz JM and Freeston K (2015). An examination of speech reception thresholds measured in a simulated reverberant cafeteria environment. International Journal of Audiology 54(10):682-690.
56. **Best V**, Mejia J, Freeston K, van Hoesel RJ and Dillon H (2015). An evaluation of the performance of two binaural beamformers in complex and dynamic multitalker environments. International Journal of Audiology 54(10):727-735.
57. Durin V, Carlile S, Guillon P, **Best V** and Kalluri S (2014). Acoustic analysis of the directional information captured by five different hearing aid styles. Journal of the Acoustical Society of America 136(2):818-828.
58. Kidd Jr G, Mason CR and **Best V** (2014). The role of syntax in maintaining the integrity of streams of speech. Journal of the Acoustical Society of America 135(2):766-777.
59. Glyde H, Buchholz JM, Dillon H, **Best V**, Hickson L and Cameron S (2013). The effect of better-ear glimpsing on spatial release from masking. Journal of the Acoustical Society of America 134(4):2937-2945.
60. **Best V**, Mason CR, Thompson ER and Kidd Jr G (2013). An energetic limit on spatial release from masking. Journal of the Association for Research in Otolaryngology 14(4):603-610.
61. Kidd Jr G, Mason CR, Streeter T, Thompson ER, **Best V** and Wakefield G (2013). Perceiving sequential dependencies in auditory streams. Journal of the Acoustical Society of America 134(2):1215-1231.
62. **Best V**, Mason CR, Thompson ER and Kidd Jr G (2013). Spatial release from masking as a function of the spectral overlap of competing talkers. Journal of the Acoustical Society of America 133(6):3677-3680.
63. Varghese L, Ozmeral EJ, **Best V** and Shinn-Cunningham BG (2012). How visual cues for when to listen aid selective auditory attention. Journal of the Association for Research in Otolaryngology 13(3):359-368.
64. **Best V**, Mason CR and Kidd Jr G (2012). The influence of non-spatial factors on measures of spatial release from masking. Journal of the Acoustical Society of America 131(4):3103-3110.
65. **Best V**, Majdak P and Laback B (2011). Binaural interference in bilateral cochlear implant listeners. Journal of the Acoustical Society of America 130(5):2939-2950.
66. **Best V**, Carlile S, Kopčo N and van Schaik A (2011). Localization in speech mixtures by listeners with hearing loss. Journal of the Acoustical Society of America 129(5):EL210-215.
67. **Best V**, Mason CR and Kidd Jr G (2011). Spatial release from masking in normally hearing and hearing-impaired listeners as a function of the temporal overlap of competing talkers. Journal of the Acoustical Society of America 129(3):1616-1625.
68. Kidd Jr G, Mason CR, **Best V** and Marrone N (2010). Stimulus factors influencing spatial release from speech-on-speech masking. Journal of the Acoustical Society of America 128(4):1965-1978.
69. **Best V**, Kalluri S, McLachlan S, Valentine S, Edwards B and Carlile S (2010). A comparison of CIC and BTE hearing aids for three-dimensional localization of speech. International Journal of Audiology 49(10):723-732.
70. **Best V**, Shinn-Cunningham BG, Ozmeral EJ and Kopčo N (2010). Exploring the benefit of auditory spatial continuity. Journal of the Acoustical Society of America 127(6): EL258-EL264.
71. Hartmann WM, **Best V**, Leung J and Carlile S (2010). Phase effects on the perceived elevation of complex tones. Journal of the Acoustical Society of America 127(5):3060-3072.

72. **Best V**, Gallun FJ, Mason CR, Kidd Jr G and Shinn-Cunningham BG (2010). The impact of noise and hearing loss on the processing of simultaneous sentences. Ear and Hearing 31(2):213-220.
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1. Barrass S and **Best V** (2008). Stream-based sonification diagrams. Proceedings of the 14th International Conference on Auditory Display, Paris, France, 24-27 June 2008.
2. **Best V**, Ihlefeld A and Shinn-Cunningham BG (2005). The effect of auditory spatial layout in a divided attention task. Proceedings of the 11th International Conference on Auditory Display, Limerick, Ireland, 6-9 July 2005.
3. **Best V**, van Schaik A and Carlile S (2003). Two-point discrimination in auditory displays. Proceedings of the 9th International Conference on Auditory Display, Boston, MA, 6-9 July 2003.
4. Jin C, van Schaik A, **Best V** and Carlile S (2003). Perceptual spatial-audio coding. Proceedings of the 9th International Conference on Auditory Display, Boston, MA, 6-9 July 2003.
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6. Jin C, van Schaik A, **Best V**, Carlile S (2003). Individualization in spatial audio coding. Proceedings of the 2003 IEEE Workshop on Applications of Signal Processing to Audio and Acoustics, New Paltz, NY, 19-22 October 2003.
7. **Best V** and Carlile S (2000). The generation of motion in virtual auditory space and the sensitivity of human listeners to velocity. Proceedings of the 1st IEEE Pacific-Rim Conference on Multimedia, Sydney, Australia, 13-15 December 2000.

Conference Abstracts

1. Bentley J, Roverud E, **Best V** and Curran T (2024). Perspectives on perceptual/auditory training: Input from individuals with hearing difficulties. American Speech and Hearing Association Convention, Seattle, WA, 5-7 December 2024.
2. Narayanan SK, Ahrens A, Rønne F, **Best V**, Dau T and Neher T (2024). Impact of hearing loss and hearing aid directionality on search behavior in audio-visual multi-talker environments. Auditory Science Meeting, Cambridge, UK, 26-27 September 2024.
3. **Best V**, Ertürk P and Roverud E (2024). Investigating disrupted sound externalization with hearing aids. International Hearing Aid Research Conference, Lake Tahoe, CA, 21-25 August 2024.
4. Ertürk P, Caswell-Midwinter B, **Best V**, Gaudrain E, Baskent D and Arenberg J (2024). Examining speech-on-speech perception in adults with hearing aids. International Hearing Aid Research Conference, Lake Tahoe, CA, 21-25 August 2024.
5. Rotger-Griful S, Skoglund MA, **Best V**, Boyd A and Sen K (2024). Improving conversational understanding: Integrating gaze insights into hearing-aid signal processing for individuals with hearing loss. International Hearing Aid Research Conference, Lake Tahoe, CA, 21-25 August 2024.
6. Narayanan SK, Ahrens A, Rønne F, **Best V**, Dau T and Tobias Neher (2024). Search behavior in audio-visual multi-talker environments. International Hearing Aid Research Conference, Lake Tahoe, CA, 21-25 August 2024.
7. Skoglund MA, **Best V**, Boyd A, Sen K and Rotger-Griful S (2024). Benefits of gaze-informed hearing-aid processing for enhancing conversational speech. 7th International Conference on Cognitive Hearing Science for Communication, Linköping, Sweden, 9-12 June 2024.
8. Narayanan SK, Ahrens A, Rønne F, **Best V**, Dau T and Neher T (2024). Effects of hearing loss and hearing aid directionality on search behavior in complex audio-visual environments. 5th Workshop on Cognitive Neuroscience of Auditory and Cross-modal Perception, Košice, Slovakia, 15-17 April 2024.
9. **Best V** (2023). How well do hearing aids amplify “speech glimpses” in multitalker mixtures? 185th Meeting of the Acoustical Society of America, Sydney, Australia, 4-8 December 2023.
10. Brungart DS, **Best V**, Davidson A (2023). Challenges in providing augmented hearing for individuals with hearing loss. 185th Meeting of the Acoustical Society of America, Sydney, Australia, 4-8 December 2023.
11. Boyd AD, **Best V** and Sen K (2023). Introducing BOSSA: A Biologically Oriented Sound Segregation Algorithm. Advances and Perspectives in Auditory Neuroscience. Washington DC, 10 November 2023.
12. **Best V** and Roverud E (2023). Externalization of speech when listening with hearing aids. International Symposium on Auditory and Audiological Research, Nyborg, Denmark, 23-25 August 2023.
13. Boyd AD, **Best V** and Sen K (2023). Introducing BOSSA: A Biologically Oriented Sound Segregation Algorithm. International Symposium on Auditory and Audiological Research, Nyborg, Denmark, 23-25 August 2023.
14. **Best V**, Ahlstrom JB, Mason CR, Perrachione TK, Kidd G Jr and Dubno JR (2023). Effects of age and hearing loss on talker identification and talker change detection. 184th Meeting of the Acoustical Society of America, Chicago, IL, 8-12 May 2023.
15. **Best V** and Roverud E (2023). Externalization of speech through hearing aids differing in microphone position and dome type. 184th Meeting of the Acoustical Society of America, Chicago, IL, 8-12 May 2023.
16. Diedesch AC, **Best V**, Roverud E and Gallun FJ (2023). Localization and externalization of speech through hearing aids with adaptive features. 184th Meeting of the Acoustical Society of America, Chicago, IL, 8-12 May 2023.
17. Ahrens A, Westermann A, Dau T, **Best V** and Neher T (2023). Audio-visual scene analysis in conditions with head- and eye-steered beamformers in virtual reality. 184th Meeting of the Acoustical Society of America, Chicago, IL, 8-12 May 2023.
18. Goverts T, Bouwmeester J, **Best V**, Colburn HS (2023). Speech recognition in realistic scenarios: parameter ranges of speech-likeness and interaural coherence. 11th International Adult Aural Rehabilitation Conference, Woburn, MA, 23-25 April 2023.

19. **Best V**, Buchholz JM, Goverts ST, Colburn HS (2022). An analysis of “speech glimpses” in realistic environments. 183rd Meeting of the Acoustical Society of America, Nashville, TN, 5-9 December 2022.
20. **Best V** and Conroy C (2022). Measuring sensitivity to envelope interaural time differences by adapting modulation depth. 182nd Meeting of the Acoustical Society of America, Denver, CO, 23-27 May 2022.
21. Goupell MJ, **Best V** and Colburn HS (2021). Lateralization biases for narrowband stimuli in listeners with typical and symmetrical hearing thresholds. 181st Meeting of the Acoustical Society of America, Seattle, WA, 27 November-3 December 2021.
22. Baltzell LS, Cardosi D, Swaminathan J and **Best V** (2021). Are there binaural consequences of speech envelope enhancement? 181st Meeting of the Acoustical Society of America, Seattle, WA, 27 November-3 December 2021.
23. **Best V** (2021). An introduction to Psychological and Physiological Acoustics. 181st Meeting of the Acoustical Society of America, Seattle, WA, 27 November-3 December 2021.
24. Cardosi D, Baltzell LS and **Best V** (2021). Speech envelope enhancement to improve cocktail-party listening. 181st Meeting of the Acoustical Society of America, Seattle, WA, 27 November-3 December 2021.
25. Kopčo N, Sebena R, Ahveninen J, **Best V** and Shinn-Cunningham B (2021). Electrophysiological correlates of auditory and visual attentional cueing in fine-grained auditory spatial discriminnation task. DAGA 47th Annual Conference on Acoustics, Vienna, Austria, 15-18 August 2021.
26. Rennies J, **Best V**, Roverud E, Krüger M and Kidd Jr G (2021). Release from energetic and informational masking as revealed by listening effort and speech intelligibility. DAGA 47th Annual Conference on Acoustics, Vienna, Austria, 15-18 August 2021.
27. **Best V**, Colburn HS and Baltzell LS (2021). Effects of hearing loss on interaural time difference sensitivity at low and high frequencies. International Symposium on Auditory and Audiological Research, Online, 23-27 August 2021.
28. **Best V**, Jennings TR and Kidd Jr G (2020). An effect of eye position in cocktail party listening. 179th Meeting of the Acoustical Society of America, Online, 7-11 December 2020.
29. Saupe M, **Best V**, Lim SJ, Choi JY and Perrachione TK (2020). Processing mixed talkers in noise suggests two mechanisms for perceptual adaption to speech. 179th Meeting of the Acoustical Society of America, Online, 7-11 December 2020.
30. Prud’homme L, Lavandier M and **Best V** (2020). Is harmonic cancellation relevant for cocktail party listening? e-Forum Acusticum 2020, Online, 7-11 December 2020.
31. Swaminathan J, Musacchia G, Balachandran R, **Best V**, Ng K and Cha J (2020). Effects of speech enhancement on brainstem coding of consonants in normal-hearing listeners. 43rd Mid-Winter Meeting of the Association for Research in Otolaryngology, San Jose, CA, 25-29 January 2020.
32. Prud’homme L, Lavandier M and **Best V** (2020). Investigating the role of harmonic cancellation in masked speech intelligibility. 43rd Mid-Winter Meeting of the Association for Research in Otolaryngology, San Jose, CA, 25-29 January 2020.
33. Baltzell LS, Swaminathan J and **Best V** (2020). Spectro-temporal weighting of interaural time differences in speech. 43rd Mid-Winter Meeting of the Association for Research in Otolaryngology, San Jose, CA, 25-29 January 2020.
34. Goupell MJ, **Best V**, Nothaft J and Colburn HS (2019). Revisiting perceived intracranial lateralization for stimuli with interaural time differences that are larger than the head. 177th Meeting of the Acoustical Society of America, Louisville, KY, 13-17 May 2019.
35. Baltzell LS, **Best V**, Swaminathan J (2019). Consequences of interaural decorrelation of speech temporal fine structure. 177th Meeting of the Acoustical Society of America, Louisville, KY, 13-17 May 2019.
36. Prud’homme L, Lavandier M and **Best V** (2019). A harmonic-cancellation-based model to predict speech intelligibility against a harmonic masker. 177th Meeting of the Acoustical Society of America, Louisville, KY, 13-17 May 2019.
37. **Best V**, Roverud E, Baltzell LS, Rennies J and Kidd Jr G (2019). The importance of high-frequency information for understanding “glimpsed” speech. 42nd Mid-Winter Meeting of the Association for Research in Otolaryngology, Baltimore, MD, 9-13 February 2019.
38. **Best V**, Conroy C and Kidd Jr G (2019). Can energetic masking of competing talkers increase informational masking? 42nd Mid-Winter Meeting of the Association for Research in Otolaryngology, Baltimore, MD, 9-13 February 2019.
39. Prud'homme L, Lavandier M and **Best V** (2019). Modelling binaural speech intelligibility against a harmonic masker. 11th Speech in Noise Workshop, Ghent, Belgium, 10-11 January 2019.

40. **Best V** (2018). Spatial hearing, hearing loss and hearing aids. American Speech and Hearing Association Convention, Boston, MA, 15-17 November 2018.
41. **Best V** and Swaminathan J (2018). Spatial hearing, hearing loss and hearing aids. International Hearing Aid Research Conference, Lake Tahoe, CA, 15-19 August 2018.
42. Roverud E, **Best V**, Conroy C and Kidd Jr G (2018). The effect of masker type and masker timing on the serial recall of speech. 175th Meeting of the Acoustical Society of America, Minneapolis, MN, 7-11 May 2018.
43. Cubick J, Buchholz JM, **Best V**, Lavandier M and Dau T (2017). Spatial perception and speech intelligibility with hearing aids. 173rd Meeting of the Acoustical Society of America, Boston, MA, 25-29 June 2017.
44. **Best V**, Buchholz JM and Weller T (2017). Measuring auditory spatial perception in realistic environments. 173rd Meeting of the Acoustical Society of America, Boston, MA, 25-29 June 2017.
45. **Best V**, Mason CR, Roverud E and Kidd Jr G (2017). Understanding effects of hearing loss on multitalker speech intelligibility in terms of glimpsing. 173rd Meeting of the Acoustical Society of America, Boston, MA, 25-29 June 2017.
46. Roverud E, **Best V**, Dubno JR, Mason CR and Kidd Jr G (2017). Does hearing loss affect the use of information at different frequencies? Results from a simultaneous tonal pattern discrimination task in normal-hearing and hearing-impaired listeners. 173rd Meeting of the Acoustical Society of America, Boston, MA, 25-29 June 2017.
47. **Best V** (2017). Do listeners refine their spatial tuning over time in multitalker mixtures? 3rd Workshop on Cognitive Neuroscience of Auditory and Cross-Modal Perception, Košice, Slovakia, 29-31 May 2017.
48. Keidser G, Freeston K, **Best V** and Buchholz JM (2017). Comprehension vs. sentence recognition and their relation to cognition for verbal processing. 4th International Conference on Cognitive Hearing Science for Communication, Linköping, Sweden, 18-21 June 2017.
49. Kidd Jr G, Mason CR, **Best V**, Roverud E, Swaminathan J, Jennings T and Colburn HS (2017). Determining the energetic and informational components of speech-on-speech masking in listeners with sensorineural hearing loss. 40th Mid-Winter Meeting of the Association for Research in Otolaryngology, Baltimore, MD, 11-15 February 2017.
50. Roverud E, **Best V**, Mason CR and Kidd Jr G (2017). The influence of word sequence length and source segregation on serial recall of masked speech. 40th Mid-Winter Meeting of the Association for Research in Otolaryngology, Baltimore, MD, 11-15 February 2017.
51. Baumgartner R, Reed DK, Tóth B, **Best V**, Majdak P, Kidd Jr G, Colburn HS and Shinn-Cunningham BG (2017). Neural correlates of sound externalization based on spectral cues. 40th Mid-Winter Meeting of the Association for Research in Otolaryngology, Baltimore, MD, 11-15 February 2017.
52. **Best V**, Ahlstrom JB, Mason CR, Roverud E, Perrachione TK, Kidd Jr G and Dubno JR (2016). Talker identification: effects of masking, age and hearing loss. 172nd Meeting of the Acoustical Society of America, Honolulu, HI, Nov 28-Dec 2 2016.
53. Buchholz JM, Westermann A, Weisser A, Beechey T, Oreinos C, **Best V** and Keidser G (2016). Factors influencing the ecological validity of laboratory-based speech tests. 22nd International Congress on Acoustics, Buenos Aires, Argentina, 5-9 September 2016.
54. **Best V**, Roverud E, Streeter T, Mason CR and Kidd Jr G (2016). Evaluation of a visually guided hearing aid using a dynamic question/answer task. International Hearing Aid Research Conference, Lake Tahoe, CA, 10-14 August 2016.
55. **Best V**, Keidser G, Freeston K and Buchholz JM (2016). Evaluation of the NAL Dynamic Conversations Test in listeners with hearing loss. International Hearing Aid Research Conference, Lake Tahoe, CA, 10-14 August 2016.
56. Roverud E, **Best V**, Mason CR, Streeter T and Kidd Jr G (2016). Evaluating performance of hearing-impaired listeners with a visually-guided hearing aid in an audio-visual word congruence task. 171st Meeting of the Acoustical Society of America, Salt Lake City, CA, 23-27 May 2016.
57. **Best V**, Streeter T, Roverud E, Swaminathan J, Mason CR and Kidd Jr G (2016). Evaluating the efficacy of a visually guided hearing aid using a dynamic question-answer task. 39th Mid-Winter Meeting of the Association for Research in Otolaryngology, San Diego, CA, 20-24 February 2016.
58. Roverud E, **Best V**, Mason CR, Streeter T, Swaminathan J and Kidd Jr G (2016). Evaluating the efficacy of a visually guided hearing aid using a dynamic audio-visual congruence task. 39th Mid-Winter Meeting of the Association for Research in Otolaryngology, San Diego, CA, 20-24 February 2016.

59. Kidd Jr G, Mason CR, **Best V**, Swaminathan J, Roverud E and Clayton K (2016). Determining the energetic and informational components of speech-on-speech masking. 39th Mid-Winter Meeting of the Association for Research in Otolaryngology, San Diego, CA, 20-24 February 2016.
60. Keidser G, **Best V**, Freeston K and Buchholz JM (2015). A new paradigm for measuring speech communication abilities in the laboratory. 6th Aging and Speech Communication Conference, Bloomington, IN, 11-14 October 2015.
61. Keidser G, **Best V**, Freeston K and Buchholz JM (2015). Cognitive factors in the comprehension of dynamic conversations. 3rd International Conference on Cognitive Hearing Science for Communication, Linköping, Sweden, 14-17 June 2015.
62. **Best V**, Mason CR, Swaminathan J, Roverud E and Kidd Jr G (2015). Application of a monaural glimpsing model to binaural speech mixtures. 169th Meeting of the Acoustical Society of America, Pittsburgh, PA, 18-22 May 2015.
63. **Best V**, Mason CR, Swaminathan J, Roverud E and Kidd Jr G (2015). Does providing more processing time improve speech intelligibility in hearing-impaired listeners? 169th Meeting of the Acoustical Society of America, Pittsburgh, PA, 18-22 May 2015.
64. Andrejkova G, Kopčo N, **Best V** and Shinn-Cunningham BG (2015). Streaming and sound localization with a preceding distractor. 169th Meeting of the Acoustical Society of America, Pittsburgh, PA, 18-22 May 2015.
65. Patel AD, Swaminathan J, Mason CR, Streeter T, **Best V** and Kidd Jr G (2015). Musician benefits for hearing speech in noise: evidence from the cocktail party problem. Meeting of the Society for Music Perception and Cognition, Nashville, TN, 1-5 August 2015.
66. Kidd Jr G, **Best V**, Desloge J, Mason CR, Roverud E, Streeter T and Swaminathan J (2015). An audio-visual test of dynamic speech recognition using the visually-guided hearing aid (VGHA). 38th Mid-Winter Meeting of the Association for Research in Otolaryngology, Baltimore, MD, 21-25 February 2015.
67. Weller T, Buchholz JM and **Best V** (2014). Measuring auditory spatial awareness in realistic multitalker environments. International Hearing Aid Research Conference, Lake Tahoe, CA, 13-17 August 2014.
68. **Best V**, Brungart DS, Iyer N, Kidd Jr G and Mason CR (2014). Better-ear glimpsing efficiency in hearing-impaired listeners. 37th Mid-Winter Meeting of the Association for Research in Otolaryngology, San Diego, CA, 22-26 February 2014.
69. Glyde H, Buchholz JM, Nielsen L, **Best V** and Dillon H (2014). The effect of audibility on spatial release from masking. 37th Mid-Winter Meeting of the Association for Research in Otolaryngology, San Diego, CA, 22-26 February 2014.
70. **Best V**, McLelland M, Dillon H (2014). The BEST (Beautifully Efficient Speech Test) for evaluating speech intelligibility in noise. XXXII World Congress of Audiology, Brisbane, Australia, 3-7 May 2014.
71. Glyde H, Buchholz JM, Nielsen L, **Best V**, Dillon H, Cameron S, Hickson L (2014). Spatial release from masking deficits in hearing-impaired people: Is inadequate audibility the problem? XXXII World Congress of Audiology, Brisbane, Australia, 3-7 May 2014.
72. **Best V**, Freeston K, Mejia J, Dillon H, Hofbauer M, Derleth P, Koenig G (2014). Evaluation of super-directional hearing aids in realistic listening situations. XXXII World Congress of Audiology, Brisbane, Australia, 3-7 May 2014.
73. **Best V**, Keidser G, Buchholz JM, Freeston K (2014). The effects of adding realism to a conventional speech-in-noise test. XXXII World Congress of Audiology, Brisbane, Australia, 3-7 May 2014.
74. Swaminathan J, Mason CR, Streeter T, **Best V** and Kidd Jr G (2013). Role of binaural temporal fine structure and envelope cues for spatial release from masking. 16th Conference on Implantable Auditory Prostheses, Lake Tahoe, CA, 14-19 July 2013.
75. **Best V**, Keidser G, Buchholz JM and Freeston K (2013). Towards more cognitively challenging speech tests. 2nd International Conference on Cognitive Hearing Science for Communication, Linköping, Sweden, 16-19 June 2013.
76. **Best V**, Keidser G, Buchholz JM and Freeston K (2013). Psychometric effects of adding realism to a speech-in-noise test. International Congress on Acoustics, Montreal, Canada, 2-8 June 2013.
77. Weller T, **Best V** and Buchholz JM (2013). Factors influencing target detectability in realistic listening scenarios. International Congress on Acoustics, Montreal, Canada, 2-8 June 2013.
78. Swaminathan J, Mason CR, Streeter T, **Best V** and Kidd Jr G (2013). Spatial release from masking for noise-vocoded speech. International Congress on Acoustics, Montreal, Canada, 2-8 June 2013.
79. **Best V**, Buchholz JM and Keidser G (2012). Towards more realistic speech tests for hearing aid research. International Hearing Aid Research Conference, Lake Tahoe, CA, 8-12 August 2012.

80. Buchholz JM, **Best V** and Keidser G (2012). Auditory localization in reverberant multisource environments by normal-hearing and hearing-impaired listeners. International Hearing Aid Research Conference, Lake Tahoe, CA, 8-12 August 2012.
81. Buchholz JM, **Best V** and Keidser G (2012). Auditory localization in realistic environments by normal-hearing and hearing-impaired listeners. 163rd Meeting of the Acoustical Society of America, Hong Kong, 13-18 May 2012.
82. Cepeda M, **Best V** and Shinn-Cunningham BG (2012). Effects of spatial attention on across-frequency grouping in speech. 163rd Meeting of the Acoustical Society of America, Hong Kong, 13-18 May 2012.
83. **Best V**, Thompson ER, Mason CR and Kidd Jr G (2012). Does energetic masking limit performance in spatialized speech mixtures? 35th Mid-Winter Meeting of the Association for Research in Otolaryngology, San Diego, CA, 25-29 February 2012.
84. Kidd Jr G, Streeter T, Thompson ER, Mason CR, **Best V** and Wakefield G (2012). The role of listener expectation in the formation and maintenance of auditory streams. 35th Mid-Winter Meeting of the Association for Research in Otolaryngology, San Diego, CA, 25-29 February 2012.
85. Laback B, **Best V** and Majdak P (2011). Tonotopic symmetry of ITD-based lateralization and channel interference. 15th Conference on Implantable Auditory Prostheses, Lake Tahoe, CA, 24-29 July 2011.
86. Cepeda M, **Best V**, Bressler S and Shinn-Cunningham BG (2011). Spatial influences on the spectral restoration of narrowband speech. 161st Meeting of the Acoustical Society of America, Seattle, WA, 23-27 May 2011.
87. **Best V**, Laback B and Majdak P (2011). Binaural interference in bilateral cochlear implant listeners. 34th Mid-Winter Meeting of the Association for Research in Otolaryngology, Baltimore, MD, 19-23 February 2011.
88. Varghese L, **Best V** and Shinn-Cunningham BG (2011). Remembering content vs. remembering order of auditory sequences. 34th Mid-Winter Meeting of the Association for Research in Otolaryngology, Baltimore, MD, 19-23 February 2011.
89. **Best V**, Mason CR and Kidd Jr G (2010). Release from speech-on-speech masking under degraded signal conditions. 34th Mid-Winter Meeting of the Association for Research in Otolaryngology, Baltimore, MD, 19-23 February 2011.
90. Valentine S, Kalluri S, **Best V**, McLachlan S, Carlile S and Edwards B (2010). Sound localization with BTE and CIC hearing aids. American Auditory Society Meeting, Scottsdale, AZ, March 2010.
91. Rajaram S, Kurkjy N, Gallun FJ, **Best V** and Shinn-Cunningham BG (2010). How object formation can influence speech perception. 33rd Mid-Winter Meeting of the Association for Research in Otolaryngology, Anaheim, CA, 6-10 February 2010.
92. Bressler S, Masud S, **Best V** and Shinn-Cunningham BG (2010). Influence of voice continuity on selective auditory attention. 33rd Mid-Winter Meeting of the Association for Research in Otolaryngology, Anaheim, CA, 6-10 February 2010.
93. **Best V**, Brungart DS, Carlile S, Jin C, Macpherson EA, Martin RL, McAnally KI, Sabin AT and Simpson BD (2009). A meta-analysis of localization errors made in the anechoic free field. International Workshop on the Principles and Applications of Spatial Hearing, Zao, Japan, 11-13 November 2009.
94. Hartmann WM and **Best V** (2009). Spectral component phase effects on the perception of elevation by human listeners. Society for Neuroscience, Chicago, IL, 17-21 October 2009.
95. Kopčo N, **Best V** and Carlile S (2009). Localizing a speech target in a multitalker mixture. 157th Meeting of the Acoustical Society of America, Portland, OR, 18-22 May 2009.
96. **Best V**, Mason CR and Kidd Jr G (2009). Spatial release from speech-on-speech masking as a function of temporal overlap in listeners with sensorineural hearing loss. 32nd Mid-Winter Meeting of the Association for Research in Otolaryngology, Baltimore, MD, 14-19 February 2009.
97. Ozmeral EJ, **Best V**, McGuffin C, Hurd B, Kopčo N and Shinn-Cunningham BG (2009). Exploring how auditory spatial continuity enhances speech perception. 32nd Mid-Winter Meeting of the Association for Research in Otolaryngology, Baltimore, MD, 14-19 February 2009.
98. Iyer N, **Best V**, Brungart DS, Simpson BD, Mason CR and Kidd Jr G (2009). Factors influencing the sequential organization of speech. 32nd Mid-Winter Meeting of the Association for Research in Otolaryngology, Baltimore, MD, 14-19 February 2009.
99. **Best V**, Gallun FJ, Mason CR, Kidd Jr G and Shinn-Cunningham BG (2008). Hearing loss and divided listening. International Hearing Aid Research Conference, Lake Tahoe, CA, 13-17 August 2008.

100. Ozmeral EJ, **Best V**, McCoin J and Shinn-Cunningham BG (2008). Across-ear grouping of speech bands in quiet and in the presence of interference. 155th Meeting of the Acoustical Society of America Meeting, Paris, France, 29 June-4 July 2008.
101. Ozmeral EJ, **Best V**, Kopčo N, Mason CR, Kidd Jr G and Shinn-Cunningham BG (2008). Dynamic aspects of auditory spatial attention. 31st Mid-Winter Meeting of the Association for Research in Otolaryngology, Phoenix, AZ, 16-21 February 2008.
102. Kidd Jr G, **Best V** and Mason CR (2008). Listening to every other word: Testing the strength of linkage variables in forming streams of speech. 31st Mid-Winter Meeting of the Association for Research in Otolaryngology, Phoenix, AZ, 16-21 February 2008.
103. Kidd Jr G, Mason CR, **Best V**, Marrone NL and Durlach NI (2008). An investigation of the factors responsible for spatial release from masking. 31st Mid-Winter Meeting of the Association for Research in Otolaryngology, Phoenix, AZ, 16-21 February 2008.
104. Xia J, **Best V** and Shinn-Cunningham BG (2008). Effects of visually guided endogenous and exogenous spatial attention on auditory target identification. 31st Mid-Winter Meeting of the Association for Research in Otolaryngology, Phoenix, AZ, 16-21 February 2008.
105. **Best V**, Ihlefeld A and Shinn-Cunningham BG (2007). Divided listening in auditory displays. International Congress on Acoustics, Madrid, Spain, 2-7 September 2007.
106. Kopčo N, **Best V** and Shinn-Cunningham BG (2007). Simulating distance cues in virtual reverberant environments. International Congress on Acoustics, Madrid, Spain, 2-7 September 2007.
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