

## Curriculum Vitae

### Gerald Kidd, Jr.

Professor  
Department of Speech, Language and Hearing Sciences  
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### Educational History

Postdoctoral Fellow, Harvard University, 1981-1984; area of study: Psychoacoustics

Ph.D., Purdue University, 1981; area of study: Hearing Science

M.S., University of Oklahoma Health Sciences Center, 1977; major: Audiology

B.A., University of Oklahoma, 1975; major: Speech and Hearing

### Sabbatical Experience

Visiting Faculty, Department of Psychology, University of California, Berkeley, CA, January, 2000, through June, 2000

Visiting Faculty, Department of Psychology, University of Minnesota, Minneapolis, MN, May, 1992, through August, 1992

Visiting Faculty, Department of Psychology, University of Florida, Gainesville, FL, January, 1992, through April, 1992

### Employment History

2020-present, Affiliated Faculty, Harvard-MIT program in Speech and Hearing, Bioscience and Technology, Harvard Medical School, Boston, MA

2016-present, Visiting Professor, Department of Otolaryngology - Head and Neck Surgery, Medical University of South Carolina, Charleston, S.C.

1984-present, Assistant, Associate, Full Professor, Department of Communication Disorders (Speech, Language and Hearing Sciences), Boston University, Boston, MA

1994-2001, 2005-6, Chair, Department of Speech, Language and Hearing Sciences, Boston University, Boston, MA

1997-2018, Associate Director, Boston University Hearing Research Center; 1999 Acting Director (March - August)

1986-2001, Consultant, Sensimetrics Corp., Somerville, MA

1984-1985, Consultant, Bolt, Beranek and Newman, Inc., Cambridge, MA

1982-1984, Consultant, Dept. of Communication Disorders, Boston University, Boston, MA

1982-1984, Postdoctoral Fellow, Laboratory of Psychophysics, Harvard University, Cambridge, MA

1981-1982, Research Associate, Dept. of Psychology and Social Relations, Harvard University, Cambridge, MA

1980-1981, Audiologist for the Otology Practice of Kyle D. Loy, M.D., West Lafayette, IN

1978-1981, Research Assistant, Psychoacoustics Laboratory, Dept. of Audiology and Speech Sciences, Purdue University, West Lafayette, IN

1977-1981, Teaching Assistant, Dept. of Audiology and Speech Sciences, Purdue University, West Lafayette, IN

1975-1977, Research Assistant, Communication Sciences Laboratory, FAA Civil Aeromedical Inst., Oklahoma City, OK

### **Honors and Awards**

Principal Investigator, Research Grant "Top-down control of selective amplification," (R01 DC013286) Awarded to Boston University by the National Institute on Deafness and Other Communication Disorders, 2014-2024

Principal Investigator, Research Grant "Central factors in auditory masking," (R01 DC004545) awarded to Boston University by the National Institute on Deafness and Other Communication Disorders, 2000-2022

Principal Investigator, Research Grant "Spatial hearing, attention, and informational masking in speech identification," (FA9550-12-1-0171) awarded to Boston University by the United States Air Force Office of Scientific Research, 2005-2020

Co-Principal Investigator, Co-Investigator, Research Grant: "Binaural hearing," (R01 DC00100) awarded to Boston University by the National Institute on Deafness and Other Communication Disorders, H. Steven Colburn, Principal Investigator, 1992-2020

Research Core Director, "A Sound Field Laboratory," (P30 DC004663) awarded to Boston University by the National Institute on Deafness and Other Communication Disorders, H. Steven Colburn, Principal Investigator of P30 Award "Research Core Center: Boston University Hearing Research Center," 2000-2015

Fellow, American Speech-Language-Hearing Association, 2000

Principal Investigator, James V. Shannon Director's Award, Research Grant: "Peripheral and central processes in auditory masking," awarded to Boston University by the National Institute on Deafness and Other Communication Disorders, 1998-2000

Fellow, Acoustical Society of America, 1997

Co-Principal Investigator, Research Grant: "Assessing informational masking in listeners with sensorineural hearing loss," Dept. of Veteran's Affairs, Rehabilitation Research and Development Service, 1997-8 (Michael Walsh, M.Ed., Co-PI)

Co-Investigator, Research Subcontract: "Software and hardware models of event-based auditory processing for real-world applications," Multidisciplinary University Research Initiative, Office of Naval Research, David C. Mountain (PI: subcontract of grant titled "Center for Acoustics and Auditory Research," Shihab A. Shamma, Ph.D., PI), 1997-2002

Award of Merit, Sargent College of Allied Health Professions, Boston University, 1989

Principal Investigator, Research Grant (R01): "Spectral Shape Discrimination in Hearing," awarded to Boston University by the National Institute for Neurological and Communicative Disorders and Stroke, 1989-1992

Principal Investigator, Research Grant: "An Audiometric Evaluation of High-frequency Hearing in Children," awarded to Boston University by the Deafness Research Foundation, 1986; 1987

Principal Investigator, Contract: "Auditory Discrimination of Sonar Signals," awarded to Boston University by the Naval Medical Research and Development Command, United States Navy, 1985-1987

Clinical Investigator Development Award, National Inst. for Neurological and Communicative Disorders and Stroke, 1985-1989, H. Steven Colburn, Ph.D., Sponsor

National Research Service Award, National Inst. for Neurological and Communicative Disorders and Stroke, 1982-1984, David M. Green, Ph.D., Sponsor

Sigma Xi, 1980

David Ross Doctoral Research Fellowship, Purdue Research Foundation, Purdue University, 1979-1981, Lawrence L. Feth, Ph.D., Sponsor

### **Sponsor of NIH Pre- and Postdoctoral Trainees, Early Career Grant Mentor**

Sarah Villard, NIH-NIDCD K99/R00 "Listening effort under auditory masking conditions in persons with acquired aphasia" (primary mentor; current)

Elin Roverud, NIH-NIDCD K01 DC016627 "Weighting of auditory information" (primary mentor; current)

Christopher Conroy, NIH-NIDCD T32 Predoctoral trainee (2017-2019)

Sarah Villard, NIH-NIDCD Postdoctoral T32 trainee (2018-2020)

Frederick Gallun NIH-NIDCD F32 DC006526 "Allocating Attention to Complex Auditory Stimuli," 2004-6

Nicole Marrone NIH-NIDCD F31 DC008440 "One Vs. Two Hearing Aids in Multitalker Listening," 2006-7

### **Sponsor of Postdoctoral Fellows/Associates (all other mechanisms)**

Lucas Baltzell, Ph.D. Postdoctoral Research Associate

Jan Rennies-Hochmuth, Ph.D. Visting Postdoctoral Scholar

Elin Roverud, Ph.D. Postdoctoral Research Associate

Jayaganesh Swaminathan, Ph.D. Postdoctoral Research Associate

Sylvain Favrot, Ph.D. Postdoctoral Research Associate

Eric Thompson, Ph.D. Postdoctoral Research Associate

Antje Ihlefeld, Ph.D. Postdoctoral Research Associate

Virginia Best, Ph.D. Postdoctoral Research Associate

Peter Chiu, Ph.D. Postdoctoral Research Associate

### **Dissertations Directed (Boston University unless otherwise indicated)**

Adrian Cho "The role of relative sound source motion in release from masking in dynamic spatial mixtures," in progress (Speech and Hearing Biosciences and Technology program, Harvard Medical School)

Christopher Conroy "Informational masking in the modulation frequency domain," in progress

Nicole L. Marrone, "The benefit of spatial separation between multiple talkers: A comparison of aided and unaided listening in reverberant rooms," 2007

Tanya L. Arbogast, "The effect of spatial separation on informational and energetic masking of speech in normal-hearing and hearing-impaired listeners," 2003

Phalguni S. Deliwala, "Effects of spatial separation and apparent movement on masked detection: energetic and informational maskers," 1999

Grace A. Owen, "Pulsed-masking effects on the human brainstem auditory evoked response," Co-chair, 1997 (with Robert F. Burkard, Ph.D., SUNY-Buffalo)

### **Courses (all at Boston University)**

Seminar on Professional Development, SH 941 (multiple years; jointly taught with S. Kiran, Ph.D., 2013)

\*Doctoral Seminar on Grant Preparation, SH 810 (multiple years; jointly taught with C. Stepp, Ph.D., 2017)

Acoustics, Physiology and Perception of Speech, SH 755

\*Hearing and Speech Science I, SH 820

\*Hearing and Speech Science II, SH 821

\*Journal Review Seminar, SH 801-808 (multiple years; jointly taught with S. Arunachalam, Ph.D., 2014)

\*Speech Perception and Intelligibility, SH 815

\*Computer Methods in Speech and Hearing Research,

Psychoacoustics, SH 845

Seminar in Experimental Audiology, SH 823

Seminar on Hearing Aids and other Auditory Protheses, Boston University

\* - Developed as a new course.

## **Refereed Publications**

Byrne, A. J., Conroy, C. and Kidd, G. Jr. (2021) "The effects of uncertainty in level on speech-on-speech masking," (in preparation)

Villard, S. and Kidd, G. Jr. (2021) "Speech intelligibility and talker gender classification with noise-vocoded and tone-vocoded speech" (in preparation)

Conroy, C. and Kidd, G. Jr. (2021) "Informational masking in the modulation-frequency domain," J. Acoust. Soc. Am. (in press)

Yun, D., Jennings, T.R., Kidd, G. Jr. and Goupell, M.J. (2021) "Benefits of Triple Acoustic Beamforming during Speech-on-Speech Masking and Sound Localization for Bilateral Cochlear-Implant Users" Journal of the Acoustical Society of America (in press)

Conroy, C. and Kidd, G. Jr. (2021) "Uncertainty about amplitude eliminates negative masking in a pure-tone amplitude discrimination experiment" J. Acoust. Soc. Am. EL, 1, 1-6  
[doi.org/10.1121/10.0003042](https://doi.org/10.1121/10.0003042)

Kidd, G. Jr., Jennings, T.R. and Byrne, A. J. (2020) "Enhancing the perceptual segregation and localization of sound sources with a triple beamformer" J. Acoust. Soc. Am., 148, 3598-3611 doi: 10.1121/10.0002779

Villard, S. and Kidd, G., Jr. (2020) "Assessing the benefit of acoustic beamforming for listeners with aphasia using modified psychoacoustic methods" J. Acoust. Soc. Am., 148, 2894-2911 doi: 10.1121/10.0002454

Roverud, E., Dubno, J. and Kidd, G. Jr. (2020) "Hearing-impaired listeners show reduced attention to high-frequency information in the presence of low-frequency information" Trends in Hearing, 24, 1-17 doi/10.1177/2331216520945516

Conroy, C., Best, V., Jennings, T. and Kidd, G. Jr. (2020) "The importance of processing resolution in "ideal time-frequency segregation" of masked speech and the implications for predicting speech intelligibility," J. Acoust. Soc. Am. 147, 1648-1660 doi: 10.1121/10.0000893

Roverud, E., Bradlow, A. and Kidd, G. Jr. (2020) "Examining the sentence superiority effect for sentences presented and reported in forwards or backwards order," Applied Psycholinguistics, 41, 381-400. doi.org/10.1017/S014271642000003X

Best, V., Conroy, C. and Kidd, G. Jr. (2020) "Can background noise increase the informational masking in a speech mixture?" J. Acoust. Soc. Am. EL, 147, 144-150 doi: 10.1121/10.0000719

Conroy, C., Mason, C.R. and Kidd, G. Jr. (2020) "Negative masking of informational masking" *J. Acoust. Soc. Am.*, 147, 798-811 doi: 10.1121/10.0000652

Villard, S. and Kidd, G. Jr. (2019) "The effects of acquired aphasia on the recognition of speech under energetic and informational masking conditions," *Trends in Hearing*, 23, 1-22

Rennies, J., Best, V., Roverud, E., and Kidd, G. Jr. (2019) "Energetic and informational components of speech-on-speech masking in binaural speech intelligibility and listening effort," *Trends in Hearing*, 23, 1-21 DOI: 10.1177/2331216519854597

Kidd, G. Jr., Mason, C.R., Best, V., Roverud, E., Swaminathan, J., Jennings, T., Clayton, K.K., and Colburn, H.S. (2019) "Determining the energetic and informational components of speech-on-speech masking in listeners with sensorineural hearing loss" *J. Acoust. Soc. Am.*, 145, 440-457 doi: 10.1121/1.5087555

Rennies-Hochmuth, J. and Kidd, G. Jr. (2018) "Benefit of binaural listening as revealed by speech intelligibility and listening effort," *J. Acoust. Soc. Am.*, 144, 2147-2159

Roverud, E., Best, V., Mason, C.R., Streeter, T. and Kidd, G. Jr. (2018) "Evaluating the performance of a visually guided hearing aid using a dynamic audio-visual word congruence task" *Ear & Hearing*, 39, 756-769 doi: 10.1097/AUD.0000000000000532

Best, V., Ahlstrom, J.B., Mason, C.R., Roverud, E., Perrachione, T.K., Kidd, G. Jr. and Dubno, J. (2017) "Talker identification: effects of masking, hearing loss and age," *J. Acoust. Soc. Am.*, 143, 1085-1092

Best, V., Roverud, E., Mason, C.R. and Kidd, G. Jr. (2017) "Examination of a hybrid beamformer that preserves auditory spatial cues," *J. Acoust. Soc. Am. Express Letters*, 142, EL369-374

Kidd, G. Jr. (2017) "Enhancing auditory selective attention using a visually guided hearing aid," *J. Speech, Lang. Hear. Res.*, 60, 3027–3038. [doi.org/10.1044/2017\\_JSLHR-H-17-0071](https://doi.org/10.1044/2017_JSLHR-H-17-0071)

Best, V., Roverud, E., Streeter, T., Mason, C.R. and Kidd, G. Jr. (2017) "The benefit of a visually guided beamformer in a dynamic speech task," *Trends in Hearing*, 21, 1-11 <https://doi.org/10.1177/2331216517722304>

Best, V., Mason, C.R., Swaminathan, J., Roverud, E. and Kidd, G. Jr. (2017) "Use of a glimpsing model to understand the performance of listeners with and without hearing loss in spatialized speech mixtures," *J. Acoust. Soc. Am.*, 141, 81-91

Swaminathan, J., Mason, C.R., Streeter, T., Best, V., Roverud, E. and Kidd, G. Jr., (2016) "Role of binaural temporal fine structure and envelope cues in cocktail-party listening," *J. Neurosci.*, 36(31): 8250-8257

Kidd, G. Jr., Mason, C.R., Swaminathan, J., Roverud, E., Clayton, K.K. and Best, V. (2016) "Determining the energetic and informational components of speech-on-speech masking," *J. Acoust. Soc. Am.*, 140, 132-144

Best, V., Streeter, T., Roverud, E., Mason, C.R. and Kidd, G. Jr., (2016) "A flexible question-answer task for measuring speech understanding," *Trends in Hearing*, 20, 1-8 DOI: 10.1177/2331216516678706

Clayton, K.K., Swaminathan, J., Yazdanbakhsh, A., Zuk, J., Patel, A.D. and Kidd, G. Jr. (2016) "Executive function, visual attention and the cocktail party problem in musicians and non-musicians," *PLoS One*, 1-17, 11(7): e0157638. doi:10.1371/journal.pone.0157638

Roverud, E., Best, V., Mason, C.R., Swaminathan, J. and Kidd, G. Jr. (2016) "Informational masking in normal-hearing and hearing-impaired listeners measured in a nonspeech pattern identification task," *Trends in Hearing*, 20, 1-17 DOI: 10.1177/2331216516638516

Newman, R.S., Morini, G., Ahsan, F. and Kidd, G. Jr. (2015) "Linguistically-based informational masking in preschool children," *J. Acoust. Soc. Am.*, 138, EL93-98

Kidd, G. Jr., Mason, C.R., Best, V. and Swaminathan, J. (2015) "Benefits of acoustic beamforming for solving the cocktail party problem," *Trends in Hearing*, 19, 1-15

Swaminathan, J., Mason, C.R., Streeter, T.M., Best, V.A., Kidd, G. Jr. and Patel, A.D. (2015) "Musical training, individual differences and the cocktail party problem" *Sci. Rep.*, 5, 1-10, Article number: 11628 doi:10.1038/srep11628

Best, V., Mason, C.R., Kidd, G. Jr., Iyer, N. and Brungart, D.S. (2015) "Better ear glimpsing efficiency in hearing-impaired listeners," *J. Acoust. Soc. Am.*, 137, EL213-219

Kidd, G. Jr., Mason, C.R. and Best, V. (2014) "The role of syntax in maintaining the integrity of streams of speech," *J. Acoust. Soc. Am.*, 135, 766-777

Kidd, G. Jr., Mason, C.R., Streeter, T., Thompson, E., Best, V. and Wakefield, G.W. (2013) "Perceiving sequential dependencies in auditory streams," *J. Acoust. Soc. Am.*, 134, 1215-1231

Best, V., Thompson, E., Mason, C.R. and Kidd, G. Jr. (2013) "Spatial release from masking in normally hearing and hearing-impaired listeners as a function of the spectral overlap of competing talkers" *J. Acoust. Soc. Am. (L)*, 133, 3677-3680

Best, V., Thompson, E.R., Mason, C.R. and Kidd, G. Jr. (2013) "An energetic limit on spatial release from masking" *J. Assoc. Res. Otolaryn.*, 14, 603-610

Kidd, G. Jr., Favrot, S., Desloge, J., Streeter, T., and Mason, C.R. (2013) "Design and preliminary testing of a visually-guided hearing aid," *J. Acoust. Soc. Am.*, 133, EL202-207

Best, V., Marrone, N., Mason, C.R. and Kidd, G. Jr. (2012) "The influence of non-spatial factors on measures of spatial release from masking," *J. Acoust. Soc. Am.*, 131, 3103-3110

Kidd, G. Jr., Richards, V.M, Streeter, T., Mason, C.R. and Haung, R. (2011) "Contextual effects in the identification of nonspeech auditory patterns," *J. Acoust. Soc. Am.*, 130, 3926-3938

Best, V., Mason, C.R. and Kidd, G. Jr., (2011) "Spatial release from masking as a function of the temporal overlap of competing maskers", *J. Acoust. Soc. Am.*, 129, 1616-1625

Kidd, G. Jr., Mason, C.R., Best, V. and Marrone, N.L. (2010) "Stimulus factors influencing spatial release from speech on speech masking," *J. Acoust. Soc. Am.*, 128, 1965-1978

Best, V., Gallun, F.J., Mason, C.R., Kidd, G. Jr. and Shinn-Cunningham, B.G. (2009) "The impact of noise and hearing loss on the processing of simultaneous sentences," *Ear and Hearing*, 31, 213-220

Kidd, G. Jr., Streeter, T., Ihlefeld, A., Maddox, R. and Mason, C.R. (2009) "The intelligibility of pointillistic speech," *J. Acoust. Soc. Am.* 126, EL196-201

Dai, H. and Kidd, G. Jr. (2009) "Suppressing unwanted cues via randomization applied to yes-no and m-alternative, forced-choice paradigms," *J. Acoust. Soc. Am.* 126, EL62-67

Best, V., Marrone, N., Mason, C.R., Kidd Jr., G. and Shinn-Cunningham, B.G. (2009) "Effects of sensorineural hearing loss on visually guided attention in a multitalker environment," *J. Assoc. Res. Otolaryngol.* 10 142-149

Kidd, G. Jr., Best, V. and Mason, C.R. (2008) "Listening to every other word: Examining the strength of linkage variables in forming streams of speech" *J. Acoust. Soc. Am.* 124, 3793-3802

Marrone, N.L., Mason, C.R. and Kidd, G. Jr. (2008) "Evaluating the benefit of hearing aids in solving the cocktail party problem," *Trends in Amplification*, 12, 300-315

Kidd, G. Jr., Richards, V.M., Mason, C.R., Gallun, F.J. and Huang, R. (2008) "Informational masking increases the costs of monitoring multiple channels," *J. Acoust. Soc. Am.*, 124, EL223-229

Marrone, N.L., Mason, C.R. and Kidd, G. Jr. (2008) "Effect of hearing loss and age on the benefit of spatial separation between multiple talkers in reverberant rooms" *J. Acoust. Soc. Am.*, 124, 3064-3075

Gallun, F.J., Durlach, N.I., Colburn, H.S., Shinn-Cunningham, B.G., Best, V., Mason, C.R. and Kidd, G. Jr. (2008) "The extent to which a position-based explanation accounts for binaural release from informational masking" *J. Acoust. Soc. Am.*, 124, 439-449

Marrone, N.L., Mason, C.R. and Kidd, G. Jr. (2008) "Tuning in the spatial dimension: Evidence from a masked speech identification task" *J. Acoust. Soc. Am.*, 124, 1146-1158

Gallun, F.J., Mason, C.R. and Kidd, G. Jr. (2007) "The ability to listen with independent ears," *J. Acoust. Soc. Am.*, 122, 2814-2825

Gallun, F.J., Mason, C.R. and Kidd, G. Jr. (2007) "Task-dependent costs in processing two simultaneous auditory stimuli" *Percept. Psychophys.*, 69, 757-771

Colburn, H.S., Shinn-Cunningham, B.A., Kidd, G. Jr. and Durlach, N.I. (2006) "The perceptual consequences of binaural hearing," *Int. J. Audiology*, 45, 34-44

Kidd, G. Jr., Arbogast, T.L., Mason, C.R. and Gallun, F.J. (2005) "The advantage of knowing where to listen," *J. Acoust. Soc. Am.*, 118, 3804-3815

Durlach, N.I., Mason, C.R., Gallun, F.J., Shinn-Cunningham, B., Colburn, H.S. and Kidd, G. Jr. (2005) "Informational masking for simultaneous nonspeech stimuli: Psychometric functions for fixed and randomly mixed maskers," *J. Acoust. Soc. Am.*, 118, 2482-2497

Gallun, F.J., Mason, C.R. and Kidd, G. Jr. (2005) "Binaural release from informational masking in a speech identification task," *J. Acoust. Soc. Am.*, 118, 1614-1625

Kidd, G. Jr., Mason, C.R. and Gallun, F.J. (2005) "Combining energetic and informational masking for speech identification," *J. Acoust. Soc. Am.*, 118, 982-992

Arbogast, T.L., Mason, C.R. and Kidd, G. Jr. (2005) "The effect of spatial separation on informational masking of speech in normal-hearing and hearing-impaired listeners," *J. Acoust. Soc. Am.*, 117, 2169-2180

Kidd, G. Jr., Mason, C.R., Brughera, A. and Hartmann, W.M. (2005) "The role of reverberation in release from masking due to spatial separation of sources for speech identification," *Acta Acustica united with Acustica*, 91, 526-536

Brungart, D.S., Simpson, B.D., Darwin, C.J., Arbogast, T.L. and Kidd, G. Jr. (2005) "Across-ear interference from parametrically-degraded synthetic speech signals in a dichotic cocktail-party listening task," J. Acoust. Soc. Am., 117, 292-304

Richards, V.M., Huang, R. and Kidd, G. Jr. (2004) "Masker-first advantage in cued informational masking studies," J. Acoust. Soc. Am., 116, 2278-2288

Kidd, G. Jr., Mason, C.R. and Richards, V.M. (2003) "Multiple bursts, multiple looks and stream coherence in the release from informational masking," J. Acoust. Soc. Am., 114, 2835-2845

Oxenham, A.J., Fligor, B.J., Mason, C.R. and Kidd, G. Jr., (2003) "Informational masking and musical training," J. Acoust. Soc. Am., 114, 1543-1549

Kidd, G. Jr., Mason, C.R., Brughera, A. and Chiu, C.Y.P. (2003) "Discriminating harmonicity," J. Acoust. Soc. Am., 114, 967-977

Kidd, G. Jr., Cox, C.L. and Matthies, M.L. (2003) "Boston university doctor of science degree program: Clinical doctorate in audiology," Am. Journ. Audiol. 12, 3-6

Durlach, N.I., Mason, C.R., Shinn-Cunningham, B.C., Arbogast, T.L., Colburn, H.S. and Kidd, G. Jr. (2003) "Informational masking: Counteracting the effects of stimulus uncertainty by decreasing target-masker similarity," J. Acoust. Am., 114, 368-379

Durlach, N.I., Mason, C.R., Kidd, G. Jr., Arbogast, T.L., Shinn-Cunningham, B.C. and Colburn, H.S. (2003) "Note on informational masking," J. Acoust. Soc. Am., 113, 2984-2987

Kidd, G. Jr., Mason, C.R., Arbogast, T.L., Brungart, D. and Simpson, B. (2003) "Informational masking caused by contralateral stimulation," J. Acoust. Soc. Am., 113, 1594-1603

Arbogast, T.L., Mason, C.R., and Kidd, G. Jr. (2002) "The effect of spatial separation on informational and energetic masking of speech," J. Acoust. Soc. Am., 112, 2086-2098

Kidd, G. Jr., Mason, C.R. and Arbogast, T.L. (2002) "Similarity, uncertainty and masking in the identification of nonspeech auditory patterns," J. Acoust. Soc. Am., 111, 1367-1376

Richards, V.M., Tang, Z. and Kidd, G.Jr. (2002) "Informational masking with small set sizes," J. Acoust. Soc. Am., 111, 1359-13

Kidd, G. Jr., Arbogast, T.L., Mason, C.R. and Walsh, M. (2002) "Informational masking in listeners with sensorineural hearing loss" J. Assoc. Res. Otolaryn., 3, 107-119

Arbogast, T.L. and Kidd, G.Jr. (2000) "Evidence for spatial tuning in informational masking using the probe-signal method," J. Acoust. Soc. Am., 108, 1803-1810

Kidd, G. Jr., Mason, C.R., Rohtla, T.L. and Deliwala, P.S. (1998) "Release from masking due to spatial separation of sources in the identification of nonspeech auditory patterns," J. Acoust. Soc. Am., 104, 422-431

Dai, H., Nguyen, Q., Kidd, G. Jr., Feth, L.L. and Green, D.M. (1996) "Phase independence of pitch produced by narrowband sounds," J. Acoust. Soc. Am., 100, 2349-2351

Kidd, G. Jr., Mason, C.R. and Rohtla, T.L. (1995) "Binaural advantage for sound pattern identification" J. Acoust. Soc. Am., 98, 1977-1986

- Kidd, G. Jr., Mason, C.R. and Dai, H. (1995) "Discriminating coherence in spectro-temporal patterns," J. Acoust. Soc. Am., 97, 3782-3790
- Kidd, G. Jr., Mason, C.R., Deliwala, P.S., Woods, W.S. and Colburn, H.S. (1994) "Reducing informational masking by sound segregation," J. Acoust. Soc. Am., 95, 3475-3480
- Kidd, G. Jr. and Wright, B.A. (1994) "Improving the detectability of a brief tone in noise using forward and backward masker fringes: monotic and dichotic presentations," J. Acoust. Soc. Am., 95, 962-967
- Kidd, G. Jr. and Dai, H. (1993) "A composite randomization procedure for measuring spectral shape discrimination," J. Acoust. Soc. Am., v. 94, 1275-1280
- Kidd, G. Jr. (1993) "Individual differences in the improvement in spectral shape discrimination due to increasing number of nonsignal tones," J. Acoust. Soc. Am., v.93, 992-996
- Kidd, G. Jr., Burkard, R.F. and Mason, C.R. (1993) "Auditory detection of the human brainstem auditory evoked response," J. Speech Hearing Res., v.36, 442-447
- Kidd, G. Jr., Uchanski, R.M., Mason, C.R. and Shah, P. (1993) "Discriminability of narrowband sounds in the absence of level cues," J. Acoust. Soc. Am. v. 93, 1028-1037
- Kidd, G. Jr. and Mason, C.R. (1992) "A new technique for measuring spectral shape discrimination," J. Acoust. Soc. Am., 91, 2855-2864
- Kidd, G. Jr, Mason, C.R., Uchanski, R.M., Brantley, M.A. and Shah, P. (1991) "Evaluation of simple models of 'Auditory Profile Analysis' using random reference spectra," J. Acoust. Soc. Am. 90, 1340-1354
- Kidd, G. Jr., Mason, C.R., Brantley, M.A. and Owen, G.A. "Roving-level tone-in-noise detection," (1989) J. Acoust. Soc. Am., 86; 1310-1317
- Kidd, G. Jr., Mason, C.R. and Hanna, T.E. (1988) "Evidence for sensory-trace comparisons in spectral shape discrimination," J. Acoust. Soc. Am., 84; 144-149
- Green, D.M., Kidd, G. Jr. and Stevens, K.N. (1987) "High-frequency audiometric assessment of a young adult population," J. Acoust. Soc. Am., 81; 485-494
- Stevens, K.N., Berkovitz, R., Kidd, G. Jr. and Green, D.M. (1987) "Calibration of ear canals for audiometry at high frequencies," J. Acoust. Soc., 81; 470-484
- Kidd, G. Jr., Mason, C.R. and Green, D.M. (1986) "Auditory profile analysis of irregular sound spectra," J. Acoust. Soc. Am., 79; 1045-1053
- Mason, C.R., Kidd, G. Jr., Hanna, T.E. and Green, D.M. (1984) "Profile analysis and level variation," Hearing Res., 13; 269-275
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### **Other Publications**

Best, V., Jennings, T. and Kidd, G. Jr. (2020) "An effect of eye position in cocktail party listening," Acoust. Soc. Am. Proc. Of Mtgs. Acoust. **42**, 050001 (2020); <https://doi.org/10.1121/2.0001344>

Villard, S., Mason, C.R. and Kidd, G. Jr. (2020) "Examining the benefit of acoustic beamforming in persons with aphasia using modified psychoacoustic methods," Acoust. Soc. Am. Proc. Of Mtgs. Acoust., 36, 1-8

Jennings, T. and Kidd, G. Jr. (2018) "A visually guided beamformer to aid listening in complex acoustic environments," Acoust. Soc. Am. Proc. Mtgs. Acoust. 33, 1-8  
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Kidd, G. Jr. and Colburn, H.S. (2017) "Informational masking in speech recognition," in *The Auditory System at the Cocktail Party*, J. C. Middlebrooks, J. Z. Simon, A.N. Popper and R.R. Fay, Eds., Springer Nature, New York, pp. 75-109

Best, V., Mason, C.R., Swaminathan, J., Roverud, E. and Kidd, G. Jr. (2015) "On the benefit of increasing the time between words for speech intelligibility in hearing-impaired listeners," Acoust. Soc. Am. POMA v. 23; <http://dx.doi.org/10.1121/2.0000108>

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Roverud, E., Best, V., Mason, C.R. and Kidd, G. Jr. (2015) "Selective and divided listening in normal hearing and hearing-impaired listeners measured in a nonspeech pattern identification task," Acoust. Soc. Am. POMA, 23, 1-13

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Favrot, S., Mason, C.R. and Kidd, G. Jr. (2014) "Influence Of A Microphone Array On Speech-On-Speech Masking Psychometric Functions," Proceedings of the 40th Annual German Conference on Acoustics (DAGA), Oldenburg, Germany

Favrot, S., Mason, C.R., Streeter, T. Desloge, J. and Kidd, G. Jr. (2013) "Performance of a highly directional microphone array in a reverberant environment," Proceedings of the International. Conf. on Acoustics/Acoustical Society of America, Montreal, Canada, vol. 18, 8 pages

- Swaminathan, J., Mason, C.R., Streeter, T., Best, V. and Kidd, G. Jr. (2013) "Spatial release from masking for noise-vocoded speech," *Proceedings of the International Conf. on Acoustics/Acoustical Society of America*, Montreal, Canada, vol. 19, 8 pages
- Kidd, G. Jr. (2010) "Auditory thresholds," in *Encyclopedia of Perception*, Sage Publications, Inc.
- Richards, V.M. and Kidd, G. Jr. (2009) "Auditory masking with complex stimuli," in *The Cognitive Neurosciences 4th Edition*, Michael Gazzaniga (Ed), MIT Press, 343-352
- Marrone, N.L., Mason, C.R. and Kidd, G. Jr. (2008) "Listening in a multisource environment with and without hearing aids," *Proceedings of the International Symposium on Auditory and Audiological Research*, T. Dau, J.M Buchholz, J.M Harte and T.U. Christiansen (Eds), Helsingør, Denmark, pp. 301-310
- Best, V., Marrone, N.L., Mason, C.R., Kidd G. Jr, and Shinn-Cunningham, B.G. (2008) "Hearing impaired listeners benefit from spatial and temporal cues in a complex auditory scene," *Proceedings of the International Symposium on Auditory and Audiological Research*, T. Dau, J.M Buchholz, J.M Harte and T.U. Christiansen (Eds), Helsingør, Denmark, pp. 375-382
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- Durlach, N.I., Colburn, H.S., Kidd, G. Jr., Mason, C.R., Shinn-Cunningham, B.G., Arbogast, T.L., Devore, S., Gallun, F. J., Zurek, P. and Desloge, J. (2006). "Source Separation, Localization, and Comprehension in Humans, Machines, and Human-machine Systems," in *Speech Separation by Humans and Machines*, P Divenyi (ed.), Springer US, 221-243.
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- Richards, V.M. and Kidd, G. Jr., "Audition," in: *The MIT Encyclopedia of the Cognitive Sciences*, R.A. Wilson and F. C. Keil (Eds) MIT Press, 48-50, 1999
- Kidd, G. Jr., Mason, C.R. and Chiu, P.C-Y. (1998) "Identification of brief auditory patterns," in the *Proceedings of the 16th International Congress on Acoustics and the 135th meeting of the Acoustical Society of America*, 2349-50
- Bickley, C. and Kidd, G. Jr. (1995) "Design of a hearing screening test using synthetic speech," in *Applied Speech Technology*, A.Syrdal, R. Bennett and S. Greenspan (Eds), CRC press, Boca Raton USA, pp. 593-606
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- Cox, C., Bankson, N.W., Kidd, G. Jr. and Burkard, R.F. (1992) "The professional doctoral program at Boston University part one: Program overview," *Audiol. Today*, 4:3, 23-25

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Kidd, G. Jr. (1987) "Auditory discrimination of complex sounds: the effects of amplitude perturbation on spectral shape discrimination," in *Auditory Processing of Complex Sounds*, W.A. Yost and C.S. Watson (Eds), Lawrence Erlbaum Assoc., p. 15-25

Feth, L.L., Burns, E.M., Kidd, G. Jr. and Mason, C.R. (1980) "Frequency selectivity following noise exposure," in *Psychophysical, Physiological and Behavioral Studies in Hearing*, van den Brink and Bilsen (Eds) Delft University Press

Tobias, J.V. and Kidd, G. Jr. (1979) "Acoustic signals for emergency evacuations," Dept. of Transportation Document #FAA-AM-79-5

### **Invited Presentations (recent)**

Kidd, G. Jr. "From profile analysis to the cocktail party problem: methods and insights inspired by signal detection theory," presented at *Contemporary Hearing Science Inspired by David M. Green*, Knowles Hearing Center Symposium, Northwestern University, Evanston, IL, July, 2019  
<https://northwestern.hosted.panopto.com/Panopto/Pages/Viewer.aspx?id=10277f63-6241-4914-ae66-aa94016c9914>

Kidd, G. Jr., (2017, 2018, 2019) "Spatial hearing, attention and informational masking in speech identification," United States Air Force AFOSR Human Performance and Biosystems Program Review(s), Arlington, VA

Kidd, G. Jr. (2017) "The contributions of Nathaniel I. Durlach to the study of informational masking," *The Journal of the Acoustical Society of America* 141, 3743 <http://doi.org/10.1121/1.4988239>

Kidd, G. Jr. "Enhancing auditory selective attention using a visually guided hearing aid," invited talk presented at the 2016 Research Symposium titled: "Advances in Auditory Attention Research: Processing Complex Auditory Stimuli," American Speech, Language and Hearing Association annual meeting, Philadelphia, PA, November, 2016 <https://academy.pubs.asha.org/2016/11/understanding-speech-in-complex-acoustic-environments/>

Kidd, Gerald Jr. (2015) "The benefits of a 'visually-guided hearing aid' (VGHA) for solving the 'cocktail-party problem'," Research Colloquium, Department of Otolaryngology, Medical University of South Carolina, Charleston, S.C.

Kidd, Gerald Jr. (2015) "The development of a "visually-guided hearing aid" for solving the cocktail party problem," Keynote address, Purdue University Speech, Language and Hearing Sciences, Alumni Gathering, West Lafayette, IN

Kidd, Gerald Jr. (2015) "Understanding speech in complex environments: The benefits of a "visually-guided hearing aid" for solving the "cocktail party problem," Northwestern University, Knowles Center Speaker Series, Evanston, IL

Kidd, Gerald Jr. (2015) "Understanding speech in complex acoustic environments," Research Seminar, Northeastern University, Boston, MA

## **Service to Boston University**

Member, University Council Committee on Faculty Policy, 2007-2009; member, subcommittee on Program Discontinuation

Member, Dean's Search Committee, Sargent College, 2004-5

Administrative Advisory Council, Sargent College, 1995-2001; 2005-2006

Strategic Planning Committee, Sargent College, 1996-2001

Member, Sargent College Committee on Appointments, Promotion and Tenure, 1993-5, 2007-present (Chair, 2012-2018); Committee on Academic Policies and Procedures, 2004-5

Member, Boston University Graduate Research Day planning committee; competition judge, 1993, 1994.

Review Committee, Dudley Allen Sargent Student Research Awards, Sargent College, Boston University, 1989; 1990; 2002-2013

Faculty Representative from Sargent College of Allied Health Professions to the University Faculty Council, Boston University, 1988-89

Developed and assisted in the implementation of a proposal for a Doctoral Degree Program in Audiology at Boston University, 1983-1985

Member of various departmental and college committees, including faculty search committees and department chair search committees

## **Service to the Profession**

Standing member, AUD Study Section, NIDCD/NIH (term 2017-2023)

Ad-hoc reviewer, NIH/NIDCD (various study sections/panels)

Scientific Advisory Board, National Organization for Hearing Research; Review Committee, Extramural Grants Program; 1999-2013

Ad-hoc reviewer, AFOSR extramural grants program

Ad-hoc Reviewer, Department of Veteran's Affairs grants program, Rehabilitation Research and Development Service, Boston VAMC

Editorial Consultant, Journal of the Acoustical Society of America; various other peer-reviewed journals

Ad-hoc reviewer, National Research Council, Division of Behavioral Sciences and Education, 2004

Associate Editor for Psychological Acoustics, Journal of the Acoustical Society of America, 2003-2006

Member, Task Force on Diversity, Council of Academic Programs in Communication Sciences and Disorders, 1999-2000

Member, Steering Committee, Hearing and Hearing Disorders, American Speech-Language-Hearing Association, 1998-2001

Member, Technical Committee, Psychological and Physiological Acoustics, Acoustical Society of America, 1996-9; 2005-2007

Associate Editor, Journal of Speech and Hearing Research, 1993-1995

Member, Panel on the Classification of Complex, Nonspeech Sounds, Committee on Hearing, Bioacoustics and Biomechanics, National Research Council, 1987-1989

Ad-hoc Reviewer, National Science Foundation, Sensory Perception and Physiology Program

Member, American Speech-Language-Hearing Association Convention Subcommittee on Hearing Science, 1982-1983; 1983-1984; 1993-1994

### **Professional Affiliations**

Acoustical Society of America

Association for Research in Otolaryngology

Certificate of Clinical Competence in Audiology, American Speech-Language-Hearing Association, 1981-2010