

2002-2017 University of Wisconsin, Madison.
Physiological and Psychological Acoustics, Department of Communication Sciences and Disorders,
University of Wisconsin, Madison.
2017-present Research Methods in CSD, Department of Communication Sciences and Disorders, University of
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2017-present Hearing Science, Department of Communication Sciences and Disorders, University of South
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Other Professional Activities and Honors:

Editorial Consultant for the Journal of the Acoustical Society of America, Journal of Experimental Psychology/MCI0 (o16 (i)34 (v)16 0 /3

Lutfi, R. A. (1984). Predicting frequency selectivity in forward masking from simultaneous masking. Journal of the Acoustical Society of America, 76, 1045-1050.

Lutfi, R. A. (1985a). A power-law transformation predicting masking by sounds with complex spectra. Journal of the Acoustical Society of America, 77, 2128-2136.

Lutfi, R. A. (1985b). A reply to Dr. B. C. J. Moore [Journal of the Acoustical Society of America, 78, 253-255 (1985)]. Journal of the Acoustical Society of America, 78, 255-257.

Lutfi, R. A., & Wightman, F. L. (1985). A comparison of psychophysical tuning curves obtained using bandpass and modulated noise. Hearing Research, 17, 289-291.

Lutfi, R. A. (1986). Two- versus four-tone masking, revisited. Journal of the Acoustical Society of America, 80, 422-428.

Lutfi, R. A. (1987). Masking additivity in the hearing-impaired. Hearing Research, 25, 3-10.

Lutfi, R. A. (1988a). Interpreting measures of frequency sele4 (n)16 (g)-4 (m)34 (ec v)1mec (o)-24 (f)2: (er-34 14 (07b1.4 Tm h.8

- Doherty, K. A., and Lutfi, R. A. (1996). Spectral weights for overall level discrimination in listeners with sensorineural hearing loss. Journal of the Acoustical Society of America 99, 1053-1058.
- Lutfi, R. A., Doherty, K. A., and Oh, E. (1996). Psychometric functions for the discrimination of spectral variance. Journal of the Acoustical Society of America, 100, 2258-2265.
- Willihnganz, M.S., Stellmack, M.A., Lutfi, R.A., and Wightman, F.L. (1997). Spectral weights in level discrimination by preschool children: Synthetic listening conditions. Journal of the Acoustical Society of America, 101, 2803-2810.
- Stellmack, M.A., Willihnganz, M.S., Wightman, F.L., and Lutfi, R.A. (1997). Spectral weights in level discrimination by preschool children: Analytic listening conditions. Journal of the Acoustical Society of America, 101, 2811-2821.
- Lutfi, R.A., and Oh, Eunmi (1997). Auditory discrimination of material changes in a struck, clamped bar. Journal of Acoustical Society of America, 102, 3647-3656.
- Oh, E., and Lutfi, R.A. (1998). Nonmonotonicity of informational masking, Journal of Acoustical Society of America, 104, 3489-3499.
- Doherty, K.A., and Lutfi, R.A. (1999). Level discrimination of individual spectral components of a multitone complex by normal-hearing and hearing-impaired listeners. Journal of the Acoustical Society of America, 105, 1831-1840.
- Lutfi, R.A., and Wang, W. (1999). Correlational analysis of acoustics cues for auditory motion. Journal of Acoustical Society of America. 106, 919-928.
- Oh, E.L., and Lutfi, R.A. (1999). Informational masking by everyday sounds. Journal of Acoustical Society of America. 106, 3521-3528.
- Oh, E.L., and Lutfi, R.A. (2000). Effect of harmonicity on informational masking. Journal of Acoustical Society of America. 108, 706-709.
- Oh, E.L., Wightman, F., and Lutfi, R.A. (2001). Children's detection of pure-tone signals with random multitone maskers. Journal of Acoustical Society of America. 109, 2888-2895.
- Lutfi, R.A. (2001). Auditory detection of hollowness. Journal of Acoustical Society of America. 110, 1010-1019.
- Lutfi, R.A., Kistler, D.J., Oh, E.L., Wightman, F.L., and Callahan, M.R. (2003). One factor underlies individual differences in auditory informational masking within and across age groups. Perception and Psychophysics. 65(3), 396-406.
- Wightman, F.L., Callahan, M.R., Lutfi, R.A., Kistler, D.J., and Oh, E.L. (2003). Children's detection of pure-tone signals: Informational masking with contralateral maskers. Journal of Acoustical Society of America, 113, 3297-3305.
- Lutfi, R.A., Kistler, D.J., Callahan, M.R., and Wightman, F.L. (2003). "Psychometric functions for informational masking." Journal of Acoustical Society of America 37

America, 118, 393-404. PMID: 16119360.

Lutfi, R.A. and Jesteadt (2006). Molecular analysis of the effect of relative tone level on multitone pattern discrimination. Journal of Acoustical Society of America, 120, 3853-3860. PMID: 17225412.

Lutfi, R.A. and Liu, C.J. (2007). Individual differences in source identification from synthesized impact sounds. Journal of Acoustical Society of America, 122, 1017-1028. PMID: 17672650.

Alexander, J.M. and Lutfi, R.A. (2008). "Sample discrimination of frequency by hearing-impaired and normal-hearing listeners," Journal of Acoustical Society of America, 123, 241-253.

Arora, R. and Lutfi, R.A. (2008). Detection-theoretic analysis of the observer--

PMC4441709

- Chang, A.C., Lutfi, R.A. and Lee, J. (2015). "Auditory streaming of tones of uncertain frequency, level and duration," Journal of Acoustical Society of America, 138, EL504-508.
- Chang A-C, Lutfi R.A., Lee J. and Heo I. (2016). "A detection-theoretic analysis of auditory streaming and its relation to auditory masking," Trends in Hearing, 20, 1-9.
- Lee, J., Heo, I., Chang, A-C., Bond, K., Steolinga, C., Lutfi, R.A. and Long, G. (2016). "Individual differences in behavioural decision weights related to irregularities in cochlear mechanics", Adv. Exp. Med. Biol. 894, 457-465.
- Gilbertson, L., Lutfi, R.A. and Ellis-Weismer, S. (2017). "Auditory preference of children with autism spectrum disorders," Cognitive Processing, 18(2), 205-209.
- Lutfi, R.A., Tan, A.Y. and Lee, J.M. (2017). "Individual differences in cocktail party listening: The relative role of decision weights and internal" Journal of the Acoustical Society of America, *Proceed. Meetings on Acoustics* 30(1), 1-7.
- Lutfi, R.A., Tan, A.Y. and Lee, J.M. (2018). "Modeling individual differences in cocktail-party listening", Acta Acustica united with Acustica, 104, 787-791

Book Chapters and Reviews:

- Weber, D. A., & Lutfi, R. A. (1986). The unimportance of suppression. Auditory Frequency Selectivity, A NATO Advanced Workshop, B. C. J. Moore & R. D. Patterson, (eds.) Plenum: New York.
- Lutfi, R.A., and Doherty, K.A. (1996). Modeling level discrimination of broadband signals by listeners with sensorineural hearing loss. Chapter in Modeling Sensorineural Hearing Loss. Editor: Jesteadt, W., Erlbaum Press: New York, pp. 235-245.
- Lutfi, R.A. (2004). Decision making in conditions of uncertainty. A review of *Elementary Detection Theory* by T. Wickens. In Contemporary Psychology, vol. 49 (3), 314-316.
- Lutfi, R.A. (2008). Sound Source Identification. In *Springer Handbook of Auditory Research: Auditory Perception of Sound Sources* Edited by W.A. Yost. And A.N Popper (Springer-Verlag, New York). ISBN: 978-0-262-01341-3.
- Lutfi, R.A. (2008). Audition: Auditory Masking. In *SAGE: Encyclopedia of Perception* Edited by B. Goldstein, (SAGE Publications, Inc., Thousand Oaks, CA). ISBN: 978-1-412-94081-8.
- Lutfi, R.A., Liu, C.J. and Stoelinga, C.N.J. (2013). A new approach to sound source identification. In *Basic Aspects of Hearing: Physiology and Perception* (Springer: NewYork), vol. 787, 2013, pp 203-211.
- Steolinga, C., Heo, I., Long, G., Lee, J., Chang, A-C. and Lutfi, R.A. (2015). "Possible role of cochlear nonlinearity in the detection of mistuning of a harmonic complex", In *Mechanics of Hearing: Protein to Perception*. (Melville: NewYork), 090022:1-5.
- Lee, J., Heo, I., Chang, A-C., Bond, K., Steolinga, C., Lutfi, R.A. and Long, G. (2016). "Individual differences in behavioural decision weights related to irregularities in cochlear mechanics", In *Physiology, Psychoacoustics and Cognition in Normal and Impaired Hearing*. (Springer: NewYork), pp. 457-465.

Invited papers:

- Lutfi, R. A. (1979). The perception of missing tones. The Parmlly Hearing Institute Lecture Series, Loyola University of Chicago, Chicago, Illinois.

- Lutfi, R.A. (2013a). A new result suggesting a comprehensive model of informational masking. Auditory Cognitive Neuroscience Society, Tucson, AZ, USA.
- Lutfi, R.A. (2013b). Towards a model of informational masking based on target-masker information divergence. EarClub, Department of Psychology. University of California, Berkeley. CA, USA.
- Lutfi, R.A. (2013c). Auditory informational masking and the Ear Club connection. *Journal of the Acoustical Society of America* 134, 4163.
- Lutfi, R.A. (2014a). Auditory streaming, information divergence and informational masking. Auditory Cognitive Neuroscience Society, Tucson, AZ, USA.
- Lutfi, R.A. (2014b). The information divergence hypothesis of auditory masking. Samsung Electronics Co. Ltd., Suwon, South Korea.
- Lutfi, R.A. and Arora, R. (2015). Auditory scene analysis by compressed sensing. AM-QFM, Northwestern University, IL. USA.
- Lutfi, R.A. (2015). “The problem of listening in noise for the hard of hearing.” Keynote speech, Fundacion General De la Universidad De Salamanca, 9th International Workshop on Advances in Audiology, Salamanca, Spain.
- Lutfi, R.A. (2016). A detection-theoretic analysis of auditory streaming and its relation to masking. Auditory Cognitive Neuroscience Society, Tucson, AZ, USA.
- Lutfi, R.A. (2016). Auditory Astigmatism. Department of Psychology, EarClub, University of California, Berkeley, CA, USA.
- Lutfi, R.A. Tan, A.Y. (2017). Individual differences in cocktail party listening. AM-QFM, Northwestern University, IL. USA.
- Lutfi, R.A., Tan, A.Y. and Lee, J.M. (2018). “Modeling individual differences in cocktail party listening” Intl. Symposium on Hearing, Snekkersten, Denmark, Acta Acoustica, Invited paper (accepted).

Published Abstracts:

- Hawkins, H. L., Wheeler, W., Presson, J. C., Micheal, D., & Lutfi, R. A. (1975). Distortion of perceived onset in human vision: A duration dependent temporal illusion. Psychonomic Science, Jackson Hole, Wyoming.
- Lutfi, R. A., and Hawkins, H. L. (1978). Temporal interference of pitch perception: The effects of interference tone intensity and uncertainty. Midwest Psychological Association Bulletin, Chicago, Illinois.
- Lutfi, R. A., and Yost, W. A. (1979). Measurements of the cubic difference tone $2f_1 - f_2$ with the binaural masking level difference. Journal of the Acoustical Society of America, 65, S120.
- Lutfi, R. A. (1982). Simultaneous masking and unmasking with bandlimited noise. Journal of the Acoustical Society of America, 71, S47.
- Lutfi, R. A., and Kistler, D. J. (1983). Predicting frequency selectivity in forward masking from simultaneous masking. Journal of the Acoustical Society of America, 73, S44.
- Lutfi, R. A. (1983). Predicting masking by combinations of simultaneous maskers. Journal of the Acoustical Society of America, 74, S39.
- Lutfi, R. A. (1985). Two- versus four-tone masking, revisited. Journal of the Acoustical Society of America, 78,

S62.

Lutfi, R. A. (1986). Masking additivity in the hearing-impaired. Abstracts of the 9th Midwinter Research Meeting, ARO, Edited by D. J. Lim, p. 110.

Lutfi, R. A. (1987). A model of the effects o

Lutfi, R.A., Liu, C.J. and Stoelinga, C.N.J. (2010a). Target enhancement and noise cancellation in the identification of rudimentary sound sources in noise. Journal of Acoustical Society of America, 127, 1990.

Lutfi, R.A., Liu, C.J., and Stoelinga, C.N.J. (2010b). Molecular analysis of the effect of onset asynchrony in the identification of a rudimentary sound source in noise. Journal of Acoustical Society of America, 127, 1990.

Stoelinga, C.N.J. and Lutfi, R.A. (2010a). Discrimination of frequency ratios, Association for Research in Otolaryngology, Abstract 728.

Stoelinga, C.N.J. and Lutfi, R.A. (2010b). "Limiting factors in the discrimination of frequency ratios," Journal of Acoustical Society of America, 127, 1988.

Stoelinga, C.N.J. and Lutfi, R.A. (2010c). "A method for including manner of contact in the synthesis of impact sounds for perceptual research," Journal of Acoustical Society of America, 127, 1990.