

VITA

Stanley Edward Sheft

Parmly Hearing Institute
Loyola University Chicago
6525 North Sheridan Road
Chicago, Illinois 60626

Phone: (773) 508-2766

Fax: (773) 508-2719

Email: ssheft@luc.edu

Biographical Data

Born: Chicago, IL, May 26, 1956

Children: Izsak Martin, born August 26, 1993

Education

Postdoctoral Fellowship, 1988-1990. Loyola University Chicago

Ph.D. in Audiology, August 1988. Northwestern University

M.A. in Audiology, June 1984. Northwestern University

B.A. in Music, January 1978. Stanford University

Experience

Research Associate Professor, 2005 - present

Parmly Hearing Institute, Loyola University Chicago

Research Assistant Professor, 1990 - 2005

Parmly Hearing Institute, Loyola University Chicago

NIH Postdoctoral Fellowship, 1988 - 1990

Parmly Hearing Institute, Loyola University Chicago

Research Assistant, 1987 - 1988

Parmly Hearing Institute, Loyola University Chicago

Audiologist, 1984 - 1990

Dr. Richard A. Buckingham, Park Ridge, IL

Teaching Assistant, 1984 - 1987

Audiology Department, Northwestern University

Grants and Contracts

NIH R01 (primary investigator), 2003 - present
AFRL Research Contract (primary investigator) 2000 - 2003
NIH Program Project (investigator), 1993 - 2003
NSF Grant (primary investigator), 1991 - 1993
AFOSR Grant (investigator), 1989 - 2000
NIH Postdoctoral Fellowship, 1988 - 1990

Services

Ad hoc reviewer for NIH
Ad hoc reviewer for NSF
Reviewer for *Aud. Neurosci.*, *Ear and Hear.*, *Hear. Res.*, *J. Acoust. Soc. Am.*, *J. Exp. Psych.*,
J. Speech Hear. Res., *Percept. Psychophys.*, *Quart. J. Exp. Psych.*
Psychological and Physiological Acoustics Technical Committee Member,
Acoustical Society of America
Technical Program Committee, Acoustical Society of America

Publications and Presentations

Boomer, J.B., Dye, R.H., Sheft, S., and Yost, W.A. (2006). "The effect of spectral differences on the ability to judge the laterality of a simulated source followed by a simulated echo," *J. Acoust. Soc. Am.* 119, 3296.

Brown, C.A., Sheft, S.E., Dye, R.H., and Yost, W.A. (2001). "Localization of noise bursts in echoic space," Association for Research in Otolaryngology, St. Petersburg, Florida.

Dye, R.H., Yost, W.A., Stellmack, M.A., and Sheft, S. (1994). "Stimulus classification procedure for assessing the extent to which binaural information is spectrally analytic or synthetic," *J. Acoust. Soc. Am.* 96, 2720-2730.

Fullgrabe, C., Moore, B.C.J., Demany, L., Ewert, S.D., Sheft, S., Lorenzi, C. (2005). "Modulation masking produced by second-order modulators," *J. Acoust. Soc. Am.* 117, 2158-2168

Mapes-Riordan, D., Sheft, S., and Yost, W.A. (1998). "Intensity jnd and loudness recalibration as a function of frequency and level differences," Association for Research in Otolaryngology, St. Petersburg, Florida.

Sheft, S. (1987). "Temporal integration of amplitude modulation," *J. Acoust. Soc. Am. Suppl.* 1 81, S34.

Sheft, S. (1989). "Auditory object perception: Spectral grouping and AM," Midwestern Psychological Association, Chicago Illinois.

Sheft, S. (1998). "Detecting irregularity of envelope modulation," *J. Acoust. Soc. Am.* 103, 2842-2843.

Sheft, S. (2000). "Adaptation to amplitude modulation," Association for Research in Otolaryngology, St. Petersburg Florida.

Sheft, S. (2002). "Effect of modulator phase on modulation detection interference," Association for Research in Otolaryngology, St. Petersburg, Florida.

Sheft, S. (2006). "Envelope processing and sound-source perception," in *Auditory Perception of Sound Sources*, edited by W.A. Yost, R.R. Fay, and A.N. Popper (Springer-Verlag, New York).

Sheft, S., and Yost, W.A. (1988). "Cross-channel effects in amplitude-modulation detection," *J. Acoust. Soc. Am. Suppl.* 1 83, S35.

Sheft, S., and Yost, W.A. (1989). "Detection and recognition of amplitude modulation with tonal carriers," *J. Acoust. Soc. Am. Suppl.* 1 85, S121.

- Sheft, S., and Yost, W.A. (1989). "Spectral fusion based on coherence of amplitude modulation," J. Acoust. Soc. Am. Suppl. 1 86, S10-S11.
- Sheft, S., and Yost, W.A. (1990). "Temporal integration in amplitude modulation detection," J. Acoust. Soc. Am. 88, 796-805.
- Sheft, S., and Yost, W.A. (1990). "Cued envelope-correlation detection," J. Acoust. Soc. Am. Suppl. 1 88, S145.
- Sheft, S., and Yost, W.A. (1991). "Detection of intensity decrements followed by increments," J. Acoust. Soc. Am. 89, 1913.
- Sheft, S., and Yost, W.A. (1991). "The effect of intensity increments on decrement detection," J. Acoust. Soc. Am. 90, 2246.
- Sheft, S., and Yost, W.A. (1991). "Modulation detection interference with complex modulators," Royal Society Meeting "Auditory Processing of Complex Sounds," London, England.
- Sheft, S., and Yost, W.A. (1992). "Spectral transposition of envelope modulation," J. Acoust. Soc. Am. 91, 2333.
- Sheft, S., and Yost, W.A. (1992). "Concurrent pitch segregation based on AM," J. Acoust. Soc. Am. 92, 2361.
- Sheft, S., and Yost, W.A. (1993). "Effect of prior stimulation on modulation detection interference," J. Acoust. Soc. Am. 93, 2326-2327.
- Sheft, S., and Yost, W.A. (1994). "Reproducible noise discrimination with concurrent narrowband noises," J. Acoust. Soc. Am. 95, 2964.
- Sheft, S., and Yost, W.A. (1995). "Concurrent amplitude modulation detection with two carriers," J. Acoust. Soc. Am. 97, 3274.
- Sheft, S., and Yost, W.A. (1995). "Temporal masking of amplitude modulation detection with a wideband noise carrier," J. Acoust. Soc. Am. 98, 2907.
- Sheft, S., and Yost, W.A. (1996). "AM detection with one- and two-tone modulators," J. Acoust. Soc. Am. 99, 2540.
- Sheft, S., and Yost, W.A. (1996). "Discrimination of noise modulators," J. Acoust. Soc. Am. 100, 2594.
- Sheft, S., and Yost, W.A. (1997). "Modulation detection interference with two-tone masker modulators," J. Acoust. Soc. Am. 102, 1106-1112.
- Sheft, S., and Yost, W.A. (1997). "Binaural modulation detection interference," J. Acoust. Soc. Am. 102, 1791-1798.
- Sheft, S., and Yost, W.A. (1997). "Detection and discrimination of amplitude modulation," J. Acoust. Soc. Am. 101, 3060.
- Sheft, S., and Yost, W.A. (1999). "Pitch of envelope-modulated rippled noise," J. Acoust. Soc. Am. 107, 2880.
- Sheft, S., and Yost, W.A. (2000). "Joint detection-recognition of amplitude modulation," J. Acoust. Soc. Am. 101, 3060.
- Sheft, S., and Yost, W.A. (2001). "AM detection with interrupted modulation," in *Physiological and Psychophysical Bases of Auditory Function*, edited by A.J.M. Houtsma, A. Kohlrausch, V.F. Prijs, and R. Schoonhoven (Shaker, Maastricht NL).
- Sheft, S., and Yost, W.A. (2002). "Discriminating change in the envelope phase spectrum," J. Acoust. Soc. Am. 111, 2468.
- Sheft, S., and Yost, W.A. (2003). "Modulation masking of lateralization based on envelope interaural phase differences," J. Acoust. Soc. Am. 113, 2286.
- Sheft, S., and Yost, W.A. (2004). "Auditory discrimination of binary sequences," J. Acoust. Soc. Am. 115, 2603.
- Sheft, S., and Yost, W.A. (2004). "Envelope-phase discrimination," Association for Research in Otolaryngology, Daytona Beach, Florida.
- Sheft, S., and Yost, W.A. (2004). "Minimum integration times for processing of amplitude modulation," in *Auditory Signal Processing: Physiology, Psychoacoustics, and Models*, edited by D. Pressnitzer, A. de Cheveigne, S. McAdams, and L. Collet (Springer-Verlag, New York).

- Sheft, S., and Yost, W.A. (2005). "Modulation detection interference with periodic complex modulators," *J. Acoust. Soc. Am.* 118, 1895.
- Sheft, S., and Yost, W.A. (2005). "Modulation masking of synchrony detection," Association for Research in Otolaryngology, New Orleans, Louisiana.
- Sheft, S., Yost, W.A., Dye, R.H. (2005). "Diotic and dichotic discrimination of binary sequences," *J. Acoust. Soc. Am.* 117, 2396.
- Sheft S, Yost WA (2006) Modulation detection interference as informational masking. *Int Symp Hearing*, Oldenburg, Germany. To be published in *Hearing – From Basic Research to Applications* (Springer, 2007).
- Shofner, W.P., and Sheft, S. (1993). "Spectral representation of envelope beat frequency in the discharge of cochlear nucleus units in the chinchilla," *J. Acoust. Soc. Am.* 93, 2410.
- Shofner, W.P., and Sheft, S. (1994). "Detection of bandlimited noise masked by wideband noise in the chinchilla," *Hear. Res.* 77, 231-235.
- Shofner, W.P., Sheft, S., and Guzman, S. (1995). "Responses of cochlear nucleus units in the chinchilla to best frequency tones amplitude modulated by low-frequency, two-tone complex," *J. Acoust. Soc. Am.* 97, 3282.
- Shofner, W.P., Sheft, S., and Guzman, S. (1996). "Responses of ventral cochlear nucleus units in the chinchilla to amplitude modulation by low frequency, two-tone complexes," *J. Acoust. Soc. Am.* 99, 3592-3605.
- Shofner, W.P., Yost, W.A., and Sheft, S. (1993). "Increment detection of bandlimited noises in the chinchilla," *Hear. Res.* 66, 67-80.
- Shofner, W.P., Yost, W.A., and Sheft, S. (1993). "Effects of masker level and bandwidth conditions on noise increment detection in chinchillas," Association for Research in Otolaryngology, St. Petersburg, Florida.
- Sutter, A., dela Cruz, R., and Sheft, S. (2000). "Noisy, independent processing of features in visual search explains search asymmetries," Association for Research in Vision and Ophthalmology, Ft. Lauderdale, Florida.
- Sutter, A., and Sheft, S. (2001). "Signal-detection model of visual search asymmetries," Association for Research in Vision and Ophthalmology, Ft. Lauderdale, Florida.
- Whitmer, W.M., Sheft, S., and Brown, C.A. (2002). "Stochastic signals and the Franssen effect," Association for Research in Otolaryngology, St. Petersburg, Florida.
- Whitmer, W.M., Yost, W.A., and Sheft, S. (2001). "The role of masking in the Franssen effect," *J. Acoust. Soc. Am.* 109, 2486.
- Yost, W.A., and Sheft, S. (1988). "Detecting amplitude modulation of sinusoidal carriers," *J. Acoust. Soc. Am. Suppl.* 1 83, S35.
- Yost, W.A., and Sheft, S. (1989). "Across-critical-band processing of amplitude-modulated tones," *J. Acoust. Soc. Am.* 85, 848-857.
- Yost, W.A., and Sheft, S. (1989). "Temporal modulation transfer functions for pure tones," *J. Acoust. Soc. Am. Suppl.* 1 85, S123.
- Yost, W.A., and Sheft, S. (1990). "A comparison among three measures of cross-spectral processing of amplitude modulation with tonal signals," *J. Acoust. Soc. Am.* 87, 897-900.
- Yost, W.A., and Sheft, S. (1990). "Modulation detection interference with narrow-band noise probes and maskers," Association for Research in Otolaryngology, St. Petersburg, Florida.
- Yost, W.A., and Sheft, S. (1990). "Modulation detection interference: Interference for discriminating a change in the depth of amplitude modulation," *J. Acoust. Soc. Am. Suppl.* 1 88, S145.
- Yost, W.A., and Sheft, S. (1992). "The effect of envelope phase in modulation detection interference," Association for Research in Otolaryngology, St. Petersburg, Florida.
- Yost, W.A., and Sheft, S. (1993). "Modulation detection interference and sound source determination," *J. Acoust. Soc. Am.* 93, 2325.
- Yost, W.A., and Sheft, S. (1993). "Auditory Perception," in *Human Psychophysics*, edited by W.A. Yost, A.N. Popper, and R.R. Fay (Springer-Verlag, New York).

- Yost, W.A., and Sheft, S. (1994). "Modulation detection interference: Across-frequency processing and auditory grouping," *Hear. Res.* 79, 48-58.
- Yost, W.A., and Sheft, S. (1997). "Temporal modulation transfer functions for tonal stimuli: Gated versus continuous conditions," *Aud. Neurosci.* 3, 401-414.
- Yost, W.A., Dye, R.H., and Sheft, S. (1994). "Analytic and synthetic listening," *Current Topics in Acoust. Res.* 1, 203-217.
- Yost, W.A., Dye, R.H., and Sheft, S. (1995). "The synthetic-analytic listening task for modulated signals," *J. Acoust. Soc. Am.* 98, 652-655.
- Yost, W.A., Dye, R.H., and Sheft, S. (1996). "A simulated cocktail party with up to three sound sources," *Percept. Psychophys.* 58, 1026-1036.
- Yost, W.A., Guzman, S.J., and Sheft, S. (1995). "Pitch and pitch strength of iterated rippled noise," *J. Acoust. Soc. Am.* 97, 3328.
- Yost, W.A., Mapes-Riordan, D., Dye, R., Sheft, S., and Shofner, W. (2005). "Discrimination of first- and second-order regular intervals from random intervals as a function of highpass filter cutoff frequency," *J. Acoust. Soc. Am.* 117, 59-62.
- Yost, W.A., Mapes-Riordan, D., Dye, R., Shofner, W., and Sheft, S. (2005). "Pitch strength of regular-interval click trains with different length "runs" of regular intervals," *J. Acoust. Soc. Am.* 117, 3054-3068.
- Yost, W.A., Patterson, R.D., and Sheft, S. (1996). "A time domain description for the pitch strength of iterated rippled noise," *J. Acoust. Soc. Am.* 99, 1066-1078.
- Yost, W.A., Patterson, R., and Sheft, S. (1998). "The role of the envelope in processing iterated rippled noise," *J. Acoust. Soc. Am.* 104, 2349-2361.
- Yost, W.A., Sheft, S., and Dye, R. (1994). "Divided auditory attention with up to three sound sources: A cocktail party," *J. Acoust. Soc. Am.* 95, 2916.
- Yost, W.A., Sheft, S., and Opie, J. (1988). "Interference of modulation rate discrimination of pure tones," *J. Acoust. Soc. Am. Suppl.* 1 84, S140.
- Yost, W.A., Sheft, S., and Opie, J. (1989). "Modulation interference in detection and discrimination of amplitude modulation," *J. Acoust. Soc. Am.* 86, 2138-2147.
- Yost, W.A., Sheft, S., and Patterson, R. (1994). "Iterated rippled noise: Testing temporal theories of complex pitch," *J. Acoust. Soc. Am.* 95, 2966.
- Young, B.A., Sheft, S., and Yost, W. (1996). "Sound production in *Pituophis melanoleucus* (serpentes: colubridae) with the first description of a vocal cord in snakes," *J. Exp. Zool.* 273, 472-481.