
BIOGRAPHICAL SKETCH

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NAME Desloge, Joseph G.	POSITION TITLE Principal Research Scientist		
eRA COMMONS USER NAME JAYDESLOGESENS			
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
Cornell University, Ithaca, NY	B.S.	1994	Electrical Engineering
Mass. Institute of Tech., Cambridge, MA	M.S.	1994	Electrical Engineering
Mass. Institute of Tech., Cambridge, MA	Ph.D.	1998	Electrical Engineering

Positions and Honors

Positions and Employment

1997	Intern, Hughes Space and Communications Company, El Segundo, CA
1998-2000	Research Scientist, Research Laboratory of Electronics, MIT, Cambridge, MA
2003-2004	Research Scientist, Research Laboratory of Electronics, MIT, Cambridge, MA
2005-Present	Research Scientist, Research Laboratory of Electronics, MIT, Cambridge, MA
1999-Present	Principal Research Scientist, Sensimetrics Corporation, Somerville, MA

Other Experience and Professional Memberships

Member: IEEE.

Honors

Member: Tau Beta Pi, Eta Kappa Nu, Sigma Xi.

Selected peer-reviewed publications

1. Greenberg, J.E., Desloge, J.G., and Zurek, P.M. (2003), 'Evaluations of Array Processing Algorithms for a Headband Hearing Aid,' *J. Acoust. Soc. Am.* **113**(3), March 2003, 1646-1657.
2. Desloge, J.G., Rabinowitz, W.M., and Zurek, P.M. (1997). "Microphone-array hearing aids with binaural output. I. Fixed-Processing Systems," *IEEE Transactions of Speech and Audio Processing* **5**, 529-542.
3. Welker, D.P., Greenberg, J.E., Desloge, J.G., and Zurek, P.M. (1997). "Microphone-array hearing aids with binaural output. II. Adaptive-Processing Systems," *IEEE Transactions of Speech and Audio Processing* **5**, 543-551.
4. Desloge, J.G. (1998). "The location-estimating, null-steering (LENS) algorithm for adaptive microphone-array processing," Ph.D. Thesis, Department of Electrical Engineering and Computer Science, M.I.T.
5. Shinn-Cunningham, B.G., Desloge, J.G., and Kopco, N. (2001), "Empirical and modeled acoustic transfer functions in a simple room: Effects of distance and direction," in *Proceedings of the 2001 IEEE Workshop of Applications of Signal Processing to Audio and Acoustics*, New Paltz, NY, 19-24 October 2001, 419-423.
6. Zurek, P.M. and Desloge, J.G. (2007). "Hearing loss and prosthesis simulation in audiology," *The Hearing Journal* **60**, 32- 38.
7. Desloge, J.G., Reed, C.M., Braida, L.D., Perez, Z.D., and Delhorne, L.A. (2010), "Speech reception by listeners with real and simulated hearing impairment: Effects of continuous and interrupted noise," *J. Acoust. Soc. Am.*, **128**(1), 342-359.
8. Desloge, J.G., Reed, C.M., Braida, L.D., Perez, Z.D., and Delhorne, L.A. (2011), "Temporal modulation transfer functions for listeners with real and simulated hearing loss," *J. Acoust. Soc. Am.*, **129**(6), 3884-3896.
9. Desloge, J.G., Reed, C.M., Braida, L.D., Perez, Z.D., and Delhorne, L.A. (2011), "Temporal masking functions for listeners with real and simulated hearing loss," *J. Acoust. Soc. Am.*, **130**(2), 915-932.

10. Desloge, J.G., Reed, C.M., Braida, L.D., Perez, Z.D., and Delhorne, L.A. (2012), "Auditory-filter characteristics for listeners with real and simulated hearing impairment," *Trends in Amplification*, **16**(1), 19-39.