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Daniel E. Shub, Ph.D. curriculum vitae as of 6 May 2009

Personal Information

Date and Place of Birth: November 23, 1974; Saugus, Massachusetts, USA

Positions

2009-present: Lecturer, School of Psychology, University of Nottingham

2009-present: Area Lead, National Biomedical Research Unit in Hearing, University of Nottingham

2006-2009: Postdoctoral Fellow, Department of Psychology, University of Pennsylvania

Education

Massachusetts Institute of Technology

Ph.D. in Health Sciences and Technology, 2007

Title: Monaural perception under dichotic conditions

Concentration in Signals and Systems

S.M. in Electrical Engineering and Computer Science, 2001

Title: The Role of the Precedence Effect in Sound Source Lateralization

University of Pennsylvania

B.S.E. in Bioengineering with a minor in Mathematics, 1997

Holderness School

Grants and Fellowships

2008-2009: Individual fellowship from the National Institutes of Health (F32 DC 009384)

2007-2008: Institutional fellowship from the National Institutes of Health (T32 DC 005363)

2004-2005: Individual fellowship from the National Institutes of Health (F31 DC 006769)

2002-2004: Institutional fellowship from the National Institutes of Health (T32 DC 000038)

1999-2001: Institutional fellowship from the National Institutes of Health (T32 DC 000038)

Awards

Travel award from the University of California Los Angeles, Institute for Pure and Applied Mathematics in 2005

Travel award from the Acoustical Society of America in 2001

Publications

Working Papers

Shub, D. E. and Colburn, H. S. (under revision). "Molecular analysis of dichotic level discrimination," J Acoust Soc Am.

Shub, D. E. and Richards, V. M. (under revision). "Monaural discrimination of azimuthal location based on spectral shape changes," J Acoust Soc Am.

Peer-Reviewed Publications

- [3] **Shub, D. E.** and Richards, V. M. (2009). "Psychophysical spectro-temporal receptive fields in an auditory task," *Hear Res* 251, 1-9.
- [2] **Shub, D. E.**, Carr, S. P., Kong, Y., and Colburn, H. S. (2008). "Discrimination and identification of azimuth using spectral shape," *J Acoust Soc Am* 124, 3132-41.
- [1] **Shub, D. E.**, Durlach, N. I., and Colburn, H. S. (2008). "Monaural level discrimination under dichotic conditions," *J Acoust Soc Am* 123, 4421-33.

Abstracts

- [13] **Shub, D. E.** and Richards, V. M. (2009). "Effects of spectral variability on monaural azimuthal localization," *Assoc Res Otolaryngol* 32, 432.
- [12] Richards, V. M., **Shub, D. E.**, and Huang, R. (2009). "Tone detection in the presence of continuous vs. pulsed maskers," *Assoc Res Otolaryngol* 32, 687.
- [11] **Shub, D. E.** and Richards, V. M. (2008). "Psychophysical spectro-temporal receptive fields in an informational masking task," *Assoc Res Otolaryngol* 31, 465.
- [10] **Shub, D. E.**, Carr, S. P., Kong, Y., and Colburn, H. S. (2007). "Monaural virtual localization: Implications for bilateral cochlear implants," *Assoc Res Otolaryngol* 30, 899.
- [9] **Shub, D. E.** and Colburn, H. S. (2006). "A binaural model of monotic level discrimination," *Assoc Res Otolaryngol* 29, 761.
- [8] **Shub, D. E.** and Colburn, H. S. (2005). "A biologically inspired binaural approach to monaural modeling," *J Acoust Soc Am* 117, 2563.
- [7] **Shub, D. E.**, Pogat-Sussman, T. E., and Colburn, H. S. (2005). "The effects of distractor frequency on monaural intensity discrimination under monotic and dichotic conditions," *Assoc Res Otolaryngol* 28, 728.
- [6] **Shub, D. E.** and Colburn, H. S. (2004). "Monaural intensity discrimination under dichotic conditions," *Assoc Res Otolaryngol* 27, 130.
- [5] Pogat-Sussman, T. E., **Shub, D. E.**, and Colburn, H. S. (2004). "Monaural intensity discrimination: Effects of distractor frequency". Biomedical Engineering Society Annual Fall Meeting, Philadelphia, Pa.
- [4] Greenberg, J., **Shub, D. E.**, and Colburn, H. S. (2003). "ILD and ITD discrimination under conditions with unreliable laterality". Biomedical Engineering Society Annual Fall Meeting, Nashville, Tn.
- [3] **Shub, D. E.**, Oxenham, A. J., and Colburn, H. S. (2003). "Psychophysical measures and peripherally based models of the role of simultaneous masking in the precedence effect," *Assoc Res Otolaryngol* 26, 236.
- [2] **Shub, D. E.**, Gilkey, R. H., and Colburn, H. S. (2001). "The role of the precedence effect in sound source lateralization," *J Acoust Soc Am* 109, 2376.
- [1] Grubman, E., Ardashev, A., Pavri, B. B., **Shub, D. E.**, Foster, K. R., Simson, M. B., and Kocovic, D. Z. (1998). "A program for automated evaluation of the PR interval from Holter recordings," *Pacing Clin Electrophysiol* 21, 906.

Research Presentations

Boston University, Binaural Bash, "Monaural minimum audible angles: Bandwidth effects," 2007

- Boston University, Hearing Research Seminar Series, "Psychophysical spectro-temporal receptive fields in an informational masking task," 2007
- Eastern Auditory Retreat, "Monaural localization and spectral shape discrimination," 2007
- Boys Town National Research Hospital, "Monaural level discrimination under dichotic conditions," 2006
- University of Lancaster, Department of Psychology, "Monaural level discrimination under dichotic conditions," 2006
- University of Pennsylvania, Department of Psychology, "Monaural level discrimination under dichotic conditions," 2006
- Loyola University Chicago, Parmly Hearing Institute, "Monaural level discrimination under dichotic conditions," 2006
- Massachusetts Eye and Ear Infirmary, Eaton Peabody Laboratory, "A binaural approach to monaural modeling," 2005
- Boston University, Binaural Bash, "Capturing a contra-aural distractor," 2005
- Boston University, Binaural Bash, "Modeling contra-aural interference," 2004
- Boston University, Binaural Bash, "The effect of sensation level on discrimination of interaural differences in time delay with binaural click-pair stimuli," 2002
- Boston University, Hearing Research Seminar Series, "The role of the precedence effect in sound source lateralization," 2001

Teaching Experience

Massachusetts Institute of Technology

Department of Electrical Engineering and Computer Science, Teaching Assistant

Psychoacoustics Project Laboratory, spring 2002

Division of Health Sciences and Technology, Teaching Assistant

Acoustics of Speech and Hearing, fall 2001

University of Pennsylvania

Department of Bioengineering, Teaching Assistant

Bioengineering Lab IV: Biotransport and Biomedical Instrumentation, spring 1997

Project Mentoring

Pogal-Sussman, T. E., *Effects of distractor frequency on monaural intensity discrimination*, 2004

Greenberg, J., *Discrimination of interaural differences in level and time delay under conditions with unreliable laterality*, 2003

Professional Activities

Organizations

Acoustical Society of America

Association for Research in Otolaryngology

Ad Hoc Reviewing

Journal of the Acoustical society of America