BIOGRAPHICAL SKETCH

NAME Elyse Suzanne Sussman	POSITION TITLE Professor of Neuroscience and Otorhinolaryngology-HNS
eRA COMMONS USER NAME esussman	

EDUCATION/TRAINING

INSTITUTION AND LOCATION	DEGREE *(if applicable)*	YEAR(s)	FIELD OF STUDY
Hofstra University, Hempstead, NY	Bs.Ed.	1975-79	Music Education
Harvard University, Cambridge, MA	Ed.M.	1979-80	Psychology/Reading
Graduate Center of the City Univ of NY	Ph.D.	1994-1998	Psychology
Albert Einstein College of Medicine, NY	Postdoc	1998-1999	ERPs, Cog Neuro
Graduate Center of the City Univ of NY	Postdoc	1999-2000	ERPs, Cog Neuro

A. Personal Statement

My research, in the area of cognitive neuroscience, is focused on understanding the neurobiological basis of auditory scene perception, from infancy to adulthood. One of the main goals of this research is to link markers of brain function with standard behavioral measures of perception and attention during the development of auditory perceptual abilities.

B. Positions and Honors

Positions and employment

1995-1996 Adjunct Instructor, City College, City University of New York,
1995-1997 Research Assistant Albert Einstein College of Medicine, Bronx, NY
1998-1999 Research Associate Albert Einstein College of Medicine, Bronx, NY
1999-2000 Postdoctoral Fellow, NIH-NIDCD, City University of New York, NY
1998-2001 Visiting Researcher, Cognitive Brain Research Unit, Helsinki University, Finland
2000-2005 Assistant Professor, Albert Einstein College of Medicine, Bronx, NY
2005-2010 Associate Professor, Albert Einstein College of Medicine, Bronx, NY
2005- Adjunct, Program in Speech-Language-Hearing Sciences, Graduate Center of the City University of New York, NY
2008- Adjunct, Department of Otolaryngology, New York University, New York, NY
2010- Professor, Departments of Neuroscience and Otorhinolaryngology, Albert Einstein College of Medicine, Bronx, NY

Professional memberships and activities

2000-pres Member, Cognitive Neuroscience Society
2004-pres Member, Society for Neuroscience
2002-pres Senate of the Albert Einstein College of Medicine (AECOM)
2002-pres Steering Committee, Institute for Human Communications, Montefiore Medical Center
2009-pres Senate Council, AECOM
2010-2016 Member, NIH Mechanisms of Sensory, Perceptual, and Cognitive Processes (SPC) Study Section

Honors and awards

1994 Teacher-As-Researcher Award, Northeastern Educational Research Association
1999 Human Frontier Science Program Fellow "Developing an attention-free indicator of auditory streaming". Hungarian Academy of Sciences, Budapest, Hungary.
2000 James A. Shannon Director's Award, National Institute on Deafness and Other Communication Disorders.
2012 National Institutes of Health (Grant R13DC012029, PI: E. Sussman), Sixth Conference on Mismatch Negativity and its Clinical and Scientific Applications. May 1-4, 2012, CUNY, New York

C. Selected Peer Review Publications (selected from 60 peer-reviewed publications**)**

Most relevant to the current application

1. Sussman, E. (2007). A new view on the MMN and attention debate: Auditory context effects. Journal of *Psychophysiology*, 21(3-4), 164-175.

2. Sussman, E. (2005). Integration and segregation in auditory scene analysis. *Journal of the Acoustical Society of America*, 117(3), 1285-1298.

3. Sussman, E. & Steinschneider, M. (2006). Neurophysiological evidence for context-dependent encoding of sensory input in human auditory cortex. *Brain Research*, 1075(1), 165-174.

4. Rahne, T. & Sussman, E. (2009). Neural representations of auditory input accommodate to the context in a dynamically changing acoustic environment. *European Journal of Neuroscience,* 29(1), 205-11.

5. Sussman, E., Bregman, A. S., Wang, W.J., & Khan, F.J. (2005). Attentional modulation of electrophysiological activity in auditory cortex for unattended sounds in multistream auditory environments. *Cognitive, Affective, & Behavioral Neuroscience*, 5(1), 93-110.

Additional recent publications of importance to the field (in chronological order)

1. Sussman, E. & Winkler, I. (2001). Dynamic sensory updating in the auditory system. *Cognitive Brain Research. 12*, 431-439.

2. Sussman, E., Sheridan, K., Kreuzer, J., & Winkler, I. (2003). Representation of the standard: Stimulus context effects on the process generating the mismatch negativity component of event-related brain potentials. *Psychophysiology*, 40, 465-471.

3. Sussman, E., Ritter, W., & Vaughan, H.G., Jr. (1998). Attention affects the organization of auditory input associated with the mismatch negativity system. *Brain Research*, *789*, 130-38.

4. Sussman, E., Ritter, W., & Vaughan, H.G., Jr. (1999). An investigation of the auditory streaming effect using event-related brain potentials. *Psychophysiology, 36*, 22-34.

5. Rimmele, J., Jolsvai, H., & Sussman, E. (2011). Auditory target detection is affected by implicit temporal and spatial expectations. *Journal of Cognitive Neuroscience,* 23(5), 1136–1147.

6. Näätänen, R., Tervaniemi, M., Sussman, E., Paavilainen, & Winkler, I. (2001). "Primitive intelligence" in the auditory cortex. *Trends in Neuroscience, 24,* 283-288.

7. Winkler, I., Kushnerenko, H., Horváth, J., Čeponienė, R., Fellman, V., Huotilainen, M., Näätänen, R. & Sussman, E. (2003). Newborn infants can organize the auditory world. *Proceedings of the National Academy of Sciences*, 100 (20), 1182-1185.

8. Sussman, E., Winkler, I., & Schröger, E. (2003). Top-down control over involuntary attention-switching in the auditory modality. *Psychonomic Bulletin & Review*, *10(3)*, 630-637.