

## CURRICULUM VITAE

Brian James Fligor

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### **Education:**

1997	Bachelor of Science in Biomedical Engineering	Boston University
2001	Master of Science in Audiology	Boston University
2002	Doctor of Science in Audiology	Boston University

### **Postdoctoral Training:**

2002 - 2004	Research Fellow	Pediatric Audiology	Children's Hospital Boston
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### **Licensure and Certification:**

2002 -	Certificate of Clinical Competence in Audiology (CCC-A), American Speech-Language-Hearing Association
2002 -	License in Audiology #739, Commonwealth of Massachusetts

### **Hospital or Affiliated Institution Appointments:**

2001 - 2002	Clinical Fellow in Audiology	Audiology Services, Department of Otolaryngology and Communication Disorders, Children's Hospital Boston
2005 -	Instructor	Department of Otology and Laryngology, Harvard Medical School

### **Other Professional Positions and Major Visiting Appointments:**

2003	Lecturer, Pediatric Audiology	Boston University, Department of Communication Disorders
2003 -	Audiology Consultant	Metals Epidemiology Research Group, Harvard School of Public Health
2006 -	Adjunct Lecturer	Department of Speech-Language Pathology and Audiology, Northeastern University

### **Hospital and Health Care Organization Service Responsibilities:**

2004 - 2005	Research Fellow in Audiology	Audiology Services, Department of Otolaryngology and Communication Disorders, Children's Hospital Boston
2005 -	Director of Diagnostic Audiology	Audiology Services, Department of Otolaryngology and Communication Enhancement, Children's Hospital Boston

**Selected Major Committee Assignments:**

2002 - 2005	Governmental Affairs Committee, Co-Chair	Massachusetts Speech-Language-Hearing Association
2004 -	Taskforce for Hearing Loss Prevention, Member	Audio Engineering Society
2004 -	Political Action Committee, Board of Advisors	American Academy of Audiology
2004 -	Music-Induced Hearing Loss Taskforce, Chair	National Hearing Conservation Association
2005	31 <sup>st</sup> National Conference Committee, Chair	National Hearing Conservation Association
2006 -	Director of Education, Executive Council	National Hearing Conservation Association
2008 -	Children's Oncology Group	Associate Member
2008 -	Expert Seminar Series and Guest Moderator, NIHL	Audiology Online
2009 - 2010	Convention Program Committee: Learning Modules Chair	American Academy of Audiology
2009 - 2012	Board of Directors	American Academy of Audiology

**Professional Societies:**

2002 - 2006	Massachusetts Speech-Language-Hearing Association	Member
2002 -	American Speech-Language and Hearing Association	Certified Member
2002 -	American Academy of Audiology	Member
2002 -	National Hearing Conservation Association	Professional Member
2006 -	American Auditory Society	Member
2009 -	Massachusetts Academy of Audiology	Member

**Recent Awards and Honors:**

2006	Media Award, 31 <sup>st</sup> Annual Conference of the National Hearing Conservation Association
2007	Active Advocate of the Year, American Academy of Audiology

- 2008 Mi-Forms Solution Builder of the Year for 2007, Mi-Co Users Days 2008
- 2008 Acknowledged “The Best of Audiology Literature 2007: Audiologic Rehabilitation” by reviewer David Wark, PhD, in *The Hearing Journal*, June 2008
- 2008 Selected to attend “Future Leaders of Audiology 2008” Conference, American Academy of Audiology, September 2008

**Selected Recent Invited Presentations**

- 2007 “Noise-Induced Hearing Loss: Scope of the Problem in the Civilian Population” and “iPods and Hearing Loss: Truth or Media Hype;” each were 30-minute presentations to participants at Acute and Chronic Noise Exposure: Strategies for Preventing, Diagnosing, and Treating Hearing Loss, Harvard School of Public Health, Boston, MA
- 2007 “Does Headphone Use Increase Risk for Hearing Loss?” 1½ hour presentation to audiologists and audiology students, Illinois Academy of Audiology, Chicago, IL
- 2007 “Music-Induced Hearing Loss” 2-hour presentation to audiology students and audiologists, National Student Speech-Language and Hearing Association, Memphis, TN
- 2007 “Review of Music-Induced Hearing Loss Research” two consecutive 1-hour presentations via national webcast on AudiologyOnline.com to audiologists, audiology students, audio engineers, and members of the popular media.
- 2007 “Music-Induced Hearing Loss” 2-hour keynote presentation to audiology students and audiologists, Pennsylvania Academy of Audiology, Harrisburg, PA
- 2008 “MP3 Players and NIHL: Amid the Hype a Valid Concern?” 60-minute presentation to participants at Acute and Chronic Noise Exposure: Strategies for Preventing, Diagnosing, and Treating Hearing Loss, Harvard School of Public Health, Boston, MA
- 2008 “Music-Induced Hearing Loss” and “Ototoxicity-Induced Hearing Loss” 2-hour presentations to audiologists and audiology students, West Virginia Speech-Language-Hearing Association, Flatwoods, WV
- 2008 Multiple 1-hour lectures on “Noise-Induced Hearing Loss” (occupational and recreational), “Acoustics of the External Ear” and “Career Development” to 250 Doctor of Audiology Students participating in student conference Phonak U, Warrenville, IL
- 2008 “Risk for NIHL from Personal Listening Devices” 18-minute presentation to attendees of the 9<sup>th</sup> Congress, International Commission on Biological Effects of Noise, Worcester, MA
- 2008 “Non-occupational hazardous noise exposures of young people” 45-minute presentation to members of Engineering Responses to Hazardous Noise Exposure, National Academy of Engineering, Washington, DC
- 2009 “Music-Induced Hearing Loss: Risks and Prevention Strategies” 90-minute presentation to audiologists, Minnesota Academy of Audiology, Minneapolis, MN

- 2009 “Music-Induced Hearing Loss: Risks and Prevention Strategies” 90-minute presentation to audiologists, Ohio Academy of Audiology, Columbus, OH
- 2009 “Hearing Loss Risk from Using Portable Media Players” 60-minute keynote presentation to audiologists and faculty at University of Bristol and University of Swansea, Bristol, UK
- 2009 “Music-Induced Hearing Loss: Yes, Headphones Can Cause Hearing Problems” 90-minute presentation to audiologists and otolaryngologists, International Audiology Meeting, Bauru, Brazil
- 2009 “Ototoxicity in Medically Fragile Children” 90-minute presentation to audiologists and otolaryngologists, International Audiology Meeting, Bauru, Brazil
- 2009 “Newborn Hearing Screening Diagnostic Follow-up: Lessons Learned in Massachusetts, USA” 2 ½-hour keynote presentation to audiologists and otolaryngologists, International Audiology Meeting, Bauru, Brazil

### **Original Articles**

Litovsky RY, Hawley ML, Fligor BJ, Zurek PM. Failure to unlearn the precedence effect. *Journal of the Acoustical Society of America* 2000;108(5 Pt. 1):2345-52.

Fligor BJ, Cox LC, Nesathurai S. Patient with subjective hearing loss and history of traumatic brain injury exhibits abnormal brainstem auditory evoked response: a case report. *Archives of Physical Medicine and Rehabilitation* 2002;83:141-3.

Litovsky RY, Fligor BJ, Tramo MJ. Functional role of the human inferior colliculus in binaural hearing. *Hearing Research* 2002;165(1-2):177-88.

Oxenham AJ, Fligor BJ, Kidd G, Mason C. Informational masking and music ability. *Journal of the Acoustical Society of America* 2003;114(3):1543-9.

Fligor BJ, Cox LC. Output levels of commercially available compact disc players and the potential risk to hearing. *Ear and Hearing* 2004;25:513-27.

Fligor BJ, Neault MW, Mullen CH, Feldman HA, Jones DT. Factors associated with sensorineural hearing loss in survivors of extracorporeal membrane oxygenation therapy. *Pediatrics* 2005;115(6):1519-28.

Lewis MJ, DuBois SG, Fligor BJ, Li X, Goorin A, Grier HE. Ototoxicity in Children Treated for Osteosarcoma. *Pediatric Blood and Cancer*, 2009;52:387-391.

Fligor BJ. Risk for Noise-Induced Hearing Loss from Use of Portable Media Players: A Summary of Evidence Through 2008. *Perspectives on Audiology*, 2009;5(1):10-20.

Weiner J, Kreisman BM, Fligor BJ. If I can hear their headphones, it's too loud, right? *Audiology Today* May/June 2009: 44-51.

### **Selected Abstracts in Books and Monographs**

Fligor BJ, Neault MW, Mullen CH, Feldman HA, Jones DT. Factors associated with sensorineural hearing loss in survivors of extracorporeal membrane oxygenation therapy. In: *The Year Book of*

Neonatal and Perinatal Medicine. 2006 (publication pending). Editors Avroy A. Fanaroff, MB, FRCP (Edinburgh), FRCP, CH, M. Jeffrey Maisels, MB, BCh and David K. Stevenson, MD. Elsevier, Inc.

### **Book Chapters**

“Do Headphones Cause Hearing Loss,” Fligor, BJ. In Hearing Loss in Musicians: Prevention and Management, Ed. Marshall Chasin. Plural Publishing, San Diego, CA. March 2009.

### **Dissertation**

Fligor BJ. Auditory risk assessment of portable compact disc players [dissertation]. Boston (MA): Boston University; 2002.

### **Selected Magazine Articles and Audio Visual Materials**

Fligor BJ. Do Music Players Harm Hearing? Consumer Reports, October 2005.

Fligor BJ. “Portable” Music and Its Risk to Hearing Health. Hearing Review 13(3) March 2006: 68-72.

Fligor, BJ. The Harmful Effects of Leisure Noise on Hearing. Museum exhibit at the Museum of Science, Boston, MA; 2003.

Fligor, BJ. Hearing Loss Prevention, Advice Regarding Personal Stereo Systems. NBC Nightly News August 3, 2005; NiteBeat, CN8, August 22, 2005; CBS Evening News, November 29, 2005; Chronicle, February 14, 2006

Fligor, BJ. Hearing Loss Prevention, Advice Regarding Personal Stereo Systems. CHB Satellite Media Tour, August 29, 2005; viewership across the 14 local media markets (radio and television) was reported to be 4.7 million.

Fligor, BJ (contributing expert for author Tom Valeo). The MP3 Generation: At Risk for Hearing Loss? WebMD.com; posted August 31, 2005. .

Fligor, BJ. Musicians’ Hearing Program: Hearing Loss Prevention Program for Professional Musicians, Pre-professional Musicians, and Music consumers. [www.childrenshospital.org/MusiciansHearingProgram](http://www.childrenshospital.org/MusiciansHearingProgram) posted May 18, 2009.

### **Narrative report of Clinical and Research Contributions:**

I am the director of Diagnostic Audiology in a pediatric tertiary care hospital, supervising a staff of 27 audiologists across 5 clinical sites. Our Diagnostic Audiology program provides diagnostic services and case management for remediation of the negative impact of childhood hearing loss. I split my time between 80% clinical and administrative service and 20% academic endeavors related to enhancing the understanding of childhood hearing loss, with a specific focus on causes of acquired sensorineural hearing loss.

My clinical caseload includes 300 patients with permanent hearing loss, currently ages 2 months to early adulthood, as well as a select group of patients at risk for late-onset and progressive sensorineural hearing loss. I attend monthly meetings of the ECMO Team to discuss follow-up of ECMO graduates. I have served as expert witness in 3 civil suits related to acquired sensorineural hearing loss: two cases of recreational noise exposure and one in a graduate of neonatal ECMO therapy. I have written numerous lay articles promoting safer listening habits in users of personal media players for Children's Hospital Boston and popular media outlets. I have started the *Children's Hospital Boston Musicians' Hearing Program (MHP)*. This newly formed clinical service is geared toward musicians of all ages, and enrolls them in a Hearing loss Prevention Program, which includes annual audiometric examination and fitting of in-ear monitors and custom hearing protection. Patients of the MHP include professional recording artists, performers, and audio engineers, as well as high school music students and hobby musicians.

My research has focused on investigating causes of acquired childhood hearing loss. With Dr. Terri Ives, I am co-author of a large cross-sectional study of the influence of type of headphone on chosen listening levels in personal stereo system users. I am on the thesis committee of an Audiology Ph.D. student from the University of Colorado (Boulder, CO), Cory Portnuff, AuD, and am mentoring him in two projects related to chosen listening levels in teenagers and measuring the dynamic range of the output of commercially available MP3 players. At Towson University (Baltimore, MD) I was a member of an Au.D. thesis committee for Dr. Jamie Weiner, whose thesis project "External audibility of music produced by headphones," sought to answer the question "If I can hear my Child's music while they are listening to their headphones, does that mean it's too loud?" Additional research not associated with music-induced hearing loss includes causes of hearing loss from medical interventions, genetics, and environmental factors. Efforts to date have identified specific risk factors for sensorineural hearing loss in graduates of extracorporeal membrane oxygenation (ECMO). I assisted an NIH R01 funded study of genetics and pediatric non-syndromic hearing loss (PI Dr. Margaret Kenna). I am a member of the Metals Epidemiology Research Group at Harvard School of Public Health, providing audiology consultant services for a P42 center grant investigating gene-environment interactions and development in children living in an EPA Superfund site in northeast Oklahoma. With oncologists at the Dana Farber Cancer Institute, I assisted in a retrospective chart review study of ototoxicity in children treated with cisplatin chemotherapy for osteosarcoma; based on this work, I was invited to join the Children's Oncology Group (COG) and offer new ototoxicity grading scales for reporting of adverse events from chemotherapy.