

Curriculum Vitae

Date Prepared: July 29, 2017
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Education

1997	B.S.	Biomedical Engineering	Boston University
2001	M.S.	Audiology	Boston University
2002	Sc.D.	Audiology (L. Clarke Cox, Ph.D.)	Boston University

Postdoctoral Training

7/02-7/04	Research Fellow	Pediatric Audiology	Children's Hospital Boston
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Faculty Academic Appointments

2005-2013	Instructor	Otology and Laryngology	Harvard Medical School
2013	Assistant Professor	Otology and Laryngology	Harvard Medical School

Appointments at Hospitals/Affiliated Institutions

2001-2002	Clinical Fellow	Audiology, Otolaryngology and Communication Enhancement	Children's Hospital Boston
2004-2005	Staff Audiologist II	Audiology, Otolaryngology and Communication Enhancement	Children's Hospital Boston

Other Professional Positions

1997	Technical Support Engineer	Chiron Diagnostics, Walpole, MA
2003	Lecturer, Pediatric Audiology (non-voting)	Boston University, Department of Communication Disorders, Boston, MA
2003-2008	Audiology Consultant	Metals Epidemiology Research Group, Harvard School of Public Health, Boston, MA

2006-2016	Adjunct Faculty, Auditory Pathologies (non-voting)	Northeastern University, Department of Speech-Language Pathology and Audiology, Boston, MA
2006-2011	Adjunct Faculty, Thesis committee, Cory Portnuff, Au.D., Ph.D.	University of Colorado, Department of Speech-Language Hearing, Boulder ,CO
2007-2009	Scientific Advisory Board, Chair	Personics Holdings, Boca Raton, FL
2007-2013	Adjunct Faculty, Au.D. thesis committee, multiple audiology students	Towson University, Department of Audiology, Speech-Language Pathology and Deaf Studies, Towson, MD
2011-2013	LEND Faculty	Leadership Education in Neurodevelopmental Disorders (LEND), Institute for Community Inclusion, Children's Hospital Boston, Boston, MA
2012	Adjunct Faculty, Industrial Audiology and Hearing Conservation (non-voting)	University of Connecticut, Department of Communication Sciences, Storrs, CT
2013-	Adjunct Faculty: Pediatric Behavioral Audiometry, Early Hearing Detection and Intervention, Managing the Musician's Ear (non-voting)	Salus University, Elkins Park, PA
2013-2016	Scientific Advisory Board	Anida Pharmaceuticals, Cambridge, MA
2013-	Scientific Advisory Board, audiologist and acoustical engineering technical consultant	Agilis Health, Cambridge, MA
2014-2015	Scientific Advisory Board	OtoSense, Cambridge, MA
2015	Adjunct Faculty, Noise and Hearing (non-voting)	Northeastern University, Department of Speech-Language Pathology and Audiology, Boston, MA
2016-	Scientific Advisor	OtoNexus Medical Technologies, Seattle, WA
2016-	Audiological Consultant	Otonomy, Inc., San Diego, CA

Major Administrative Leadership Positions

Local

2005-2013	Director, Diagnostic Audiology	Boston Children's Hospital
2014-	Chief Audiology Officer	Lantos Technologies, Inc.

Committee Service

Local

2005-2007	Institutional Review Board	Otolaryngology and Communication Enhancement, Boston Children's Hospital Reviewer
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National and International

2008-	AGCT-0132 Technical Committee	Children's Oncology Group
2008-2013		Associate Member
2014-		Consultant Member

2011-	Clinical Ototoxicity Grading and Monitoring 2011-	International Society of Pediatric Oncology Working Group member
2015-	Make Listening Safe Initiative	World Health Organization (WHO) Working Groups: Standards for Safe Listening (chair); Hearing Loss screening protocols (member)

Professional Societies

2002-2006	Massachusetts Speech-Language Hearing Association 2004-2005	Member Co-chair, Governmental Affairs Committee
2002-2016	American Speech-Language Hearing Association	Certified Member
2002-	American Academy of Audiology 2004-2009 2005	Member Member, Political Action Committee Member, Academy Leadership Nominations Committee
	2009-2010	Chair, Learning Modules, Annual Convention Program Committee
	2009-2012	Member-at-Large, Secretary/Treasurer, Board of Directors
	2011-2012	Chair, Community Support, Annual Convention Program Committee
2002-	National Hearing Conservation Association 2004-2012	Professional Member Chair, Music-Induced Hearing Disorders Taskforce
	2005	Chair, 31 st National Conference Committee
	2006-2009	Director of Education, Executive Council
2004-	Audio Engineering Society 2004-	Member, Hearing Loss Prevention Technical Committee
2006-	American Auditory Society	Member
2009-	Massachusetts Academy of Audiology	Member
2011-	Performing Arts Medical Association	Professional Member

Editorial Activities

- 2003 – current, American Journal of Audiology, Ad hoc reviewer
- 2003 – current, International Journal of Audiology, Ad hoc reviewer
- 2004 – current, Journal of the Acoustical Society of America, Ad hoc reviewer
- 2005 – current, Journal of Speech-Language and Hearing Research, Ad hoc reviewer
- 2006 – current, Ear and Hearing, Ad hoc reviewer
- 2006 – current, Journal of the American Academy of Audiology, Ad hoc reviewer
- 2008 – current, Archives of Otolaryngology – Head & Neck Surgery, Ad hoc reviewer
- 2009 – current, Noise and Health, Ad hoc reviewer

2010 – current, Journal of Occupational and Environmental Hygiene, Ad hoc reviewer
 2016 – current, Journal of the American Medical Association, Otolaryngology, Ad hoc reviewer

Honors and Prizes

2003	Outstanding Poster Award	National Hearing Conservation Association	Voted top poster at annual conference by attendees
2006	Media Award	National Hearing Conservation Association	For advocating hearing loss prevention within the popular press
2007	Active Advocate of the Year	American Academy of Audiology	For advocating hearing loss prevention on behalf of the audiology profession, and advocating passage of state legislation (MA) governing practice of audiology assistants
2008	Mi-Forms Solution Builder of the Year for 2007	Mi-Co, Inc., Research Triangle Park, NC	For development of the electronic audiogram to interface with electronic medical record
2008	Future Leaders of Audiology 2008	American Academy of Audiology	Selected to attend leadership conference
2012	Natalie Stukas Hearing Conservation Award	Illinois Academy of Audiology	For outstanding contributions to hearing protection through advocacy, education, and research
2013	“Go the Distance”	Northborough/ Southborough Special Education Parent Advisory Council	This award recognizes stellar achievement by district staff, local and greater community members who have made a significant contribution in enhancing the life of a child with special needs.
2013	Outstanding Advocacy in Health Care Award	Massachusetts Hearing Aids for Children Coalition	In recognition and appreciation of outstanding advocacy and commitment to securing health care coverage for hearing aids for children in Massachusetts

Report of Funded and Unfunded Projects

Funding Information

Past

2001-2002 Dudley Allen Sargent Award, Boston University: Grant to support dissertation
 2001-2008 Superfund Toxic Substances – Exposure and Disease: Community-Based Metals Exposure in Child Development and Hearing
 NIEHS P42 ES005947-13S1
 Consultant
 This study was a community-based participatory research (CBPR) epidemiologic investigation of the assessment of the role of genetic polymorphisms in modifying the uptake, tissue distribution, and neurobehavioral toxicity of metals (lead, manganese, and cadmium) among children who live in the Tar Creek area of Oklahoma. Outcome measures

- included hearing assessment in newborns and adolescents, behavioral scales of neurodevelopment, and standardized tests of academic aptitude.
- 2002-2006 Genetics and Pediatric Non-syndromic Sensorineural Hearing Loss
NIH 1 R01 DC05248-01A1
Consultant
The purpose of this project was to evaluate the audiological phenotype of patients with Connexin-26 gene mutation-related hearing loss and follow their hearing over several years, to determine whether temporal bone abnormalities are associated with Connexin-26 deafness and whether such abnormalities affect the audiologic phenotype, and to study the experiences and outcomes of patients and families who have pursued genetic testing for deafness.
- 2005-2007 Factors Influencing Preferred Listening Levels in Users of Personal Stereo Systems
Innovative Research Fund, Etymotic Research, Inc., Elk Grove Village, IL
Co-Principle Investigator
The purpose of this study was to examine the factors affecting chosen listening level in users of personal stereo systems. This study of 100 normal hearing young adults utilized a psychophysical method-of-adjustment to measure the sound levels in the ear canal as a function of level and type of ambient sounds in the listening environment.
- 2009-2011 An Observational Study to Assess the Natural History Including Growth and Hearing in Patients in Patients With Cockayne Syndrome
MP-1003-01, Pharming/DNage, The Netherlands
Consultant
The purpose of this study was to collect the current medical condition (hearing and physical inventory) and assess changes in growth that occur in the predominance of patients with Cockayne syndrome. Hearing test results were tabulated with the severity of hearing loss and correlated with age, growth, and gene mutation involved.
- 2008-2015 Audiologic Findings in Children with Progeria
Progeria Research Foundation (PRFCLIN2007-1)
Co-investigator (\$65,000)
This project is under an umbrella grant from the Progeria Research Foundation to fund a drug trial for treatment of children with Hutchinson-Gilford Progeria Syndrome, a rare, fatal disorder of segmental premature aging caused by a genetic mutation. The audiologic component includes natural history and drug-related outcomes measures.
- 2011-2014 Pediatric Audiology Sub-Award, Leadership Education in Neurodevelopmental Disorders
Association of University Centers on Disabilities
Co-Principal Investigator (\$164,000)
The purpose of this grant is to increase the number of pediatric audiologists skilled in providing the diagnostic testing necessary for determining the hearing abilities of infants referred for further testing on the newborn hearing screening, as well as developing web 2.0/interactive parent education materials to help understand their child's hearing loss and the potential benefits from audiological interventions.
- 2013-2014 Audiogram Hub
Technology Development Fund, Technology Innovation Development Office, Boston Children's Hospital
Co-Principal Investigator (\$90,000)
This project is the development of a mobile computing app, running on iPad (iOS) and Android platforms, for EMR-compatible audiometric documentation. This form interfaces with audiometric testing hardware, importing and exporting data for easier and more

accurate information exchange. This product is being developed for both in-house use and as a commercial product.

Current Unfunded Projects

- 2009- Incidence of ototoxicity in children treated with cisplatin chemotherapy for germ cell tumors. (Mentor and Co-Investigator)
I am co-investigator on a mentored student research study of the incidence and severity of sensorineural hearing loss in children with a diagnosis of germ cell tumors treated with cisplatin chemotherapy. Data are from hospitals across North America reporting to the AGCT-0132 Technical Committee of the children's Oncology Group. Work from this group has resulted in a grading scale I co-authored and published in 2009 being adopted as the basis for a proposed international grading scale for cisplatin ototoxicity.
- 2015- A Study of Musicians Earplugs Performance (Co-PI)
I am Co-PI on a study being conducted in collaboration with Andrew Carballeira, M.S., audio engineering instructor at Berklee College of Music, to evaluate acceptable deviation from ideal performance of custom-fitted Musicians Earplugs in professional musicians.

Report of Local Teaching and Training

Teaching of Students in Courses

2003	Pediatric Audiology 3 rd year Doctor of Science (Sc.D.) in Audiology Students, Boston University	Adjunct Lecturer Three hour class once per week for 8 weeks
2006-2010	Neurobiology Undergraduate Seniors, Harvard University	Invited Lecturer Two hour class once per semester
2006-2016	Auditory Pathologies 1 st year Doctor of Audiology (Au.D.) Students, Northeastern University	Adjunct Lecturer Three hour class once per week for 16 weeks
2012	Industrial Audiology/Hearing Conservation 2 nd year Doctor of Audiology (Au.D.) Students, University of Connecticut	Adjunct Lecturer Three hour class once per week for 16 weeks (covering sabbatical for UConn professor who teaches this course)
2013-	Managing the Musicians Ear 3 rd year Doctor of (Au.D.) students, Salus University	Four hour lecture plus lab once per week for 6 weeks
2015	Noise and Hearing 2 nd year Doctor of Audiology (Au.D.) Students, Northeastern University	Two hour class once per week for 16 weeks

Formal Teaching of Residents, Clinical Fellows and Research Fellows (post-docs)

2005-2013	Pediatric Audiology Otolaryngology Fellows, Residents, and Physician Assistants	Harvard Medical School One hour lecture
2009-2013	Pediatric Audiology LEND Fellows (interdisciplinary healthcare CORE curriculum)	Children's Hospital Boston Two hour lecture

Formally Supervised Trainees

- 2006-2012 Cory Portnuff, Au.D., Ph.D., University of Colorado, Boulder, CO
Secured two research awards to sponsor mentored research (National Hearing Conservation Association Foundation and American Speech-Language Hearing Association); four podium presentations at national meetings, three peer-review publications in print, two peer-review publications in preparation, and one lay-paper that is cited in numerous refereed publications.
- 2007-2008 Jamie Weiner, Au.D., Towson University, Towson, MD
Research advisor for doctoral thesis on noise-induced hearing loss risk from using iPod headphones; published non-peer reviewed scientific publication.
- 2010-2011 Frank Wartinger, Au.D., Salus University, Elkins Park, PA
Au.D. Extern supervisor for pediatric audiology and Musicians' Hearing Program at Children's Hospital Boston; published non-peer reviewed scientific publication.
- 2010-2011 Katherine Longenbach, Au.D., Towson University, Towson, MD
Research advisor for doctoral thesis on noise-induced hearing loss risk from using iPod headphones, in conjunction with fellow student Melina Ecos; peer-reviewed publication in preparation.
- 2010-2011 Melina Ecos, Au.D., Towson University, Towson, MD
Research advisor for doctoral thesis on noise-induced hearing loss risk from using iPod headphones, in conjunction with fellow student Katherine Longenbach; peer-reviewed publication in preparation.
- 2011-2012 Amanda Griffin, Ph.D. candidate in Audiology, University of Massachusetts, Amherst, MA
Fourth Year clinical externship supervisor for pediatric audiology and Musicians' Hearing Program at Children's Hospital Boston.
- 2011-2012 Brittney Barry, Au.D., Northeastern University, Boston, MA
Research advisor for research assistantship funded through the Pediatric Audiology Sub-Award (LEND-funded) project to develop curriculum for 3rd year Au.D. students to develop greater didactic knowledge and clinic skills to accurately conduct diagnostic testing of newborns who refer on their newborn hearing screening. Strong parent-counseling component emphasized in course development.
- 2011-2012 Alyssa Bonnette, Au.D., Northeastern University, Boston, MA
Research advisor for research assistantship funded through the Pediatric Audiology Sub-Award (LEND-funded) project to develop curriculum for 3rd year Au.D. students to develop greater didactic knowledge and clinic skills to accurately conduct diagnostic testing of newborns who refer on their newborn hearing screening. Strong parent-counseling component emphasized in course development.
- 2011-2012 Lydia Gregoret, Ph.D., Au.D., Northeastern University, Boston, MA
Instructor for directed study to develop parent-counseling interactive website for parents of children who refer on newborn hearing screening and parents of children newly diagnosed with hearing loss. Counseling based on peer-reviewed literature on best-practices in audiological counseling and communication of difficult medical diagnoses.
- 2012-2013 Nicole Corbin, Au.D., University of Arizona, Tucson, AZ
Au.D. Extern supervisor for pediatric audiology and Musicians' Hearing Program at Children's Hospital Boston
- 2013 Homira Osman, Au.D./Ph.D. candidate, University of Washington, Seattle, WA

- Summer clinical research intern, participating in data collection, data entry and analysis, clinical research study design for retrospective and prospective studies of pediatric sensorineural hearing loss, and manuscript preparation. Participated in clinical service provision under my supervision, for evaluations providing data in clinical research trials.
- 2013-2014 Kaitlyn DeFonzo, Au.D., Gallaudet University, Washington, DC
Au.D. Extern supervisor for pediatric audiology and Musicians' Hearing Program at Children's Hospital Boston
- 2016-2017 Katie Ranshaw, Au.D. candidate, University of Northern Colorado, Greeley, CO

Formal Teaching of Peers (e.g., CME and other continuing education courses)

Those presentations below sponsored by outside entities are so noted and the sponsors are identified

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| 2006 | Output Levels of Personal Stereo Systems: What Audiologists Need to Know (AudiologyOnline)
AudiologyOnline.com | Lecture
On-line webinar |
| 2007 | Review of Music-Induced Hearing Loss Research (AudiologyOnline)
AudiologyOnline.com | Lecture
On-line webinar |
| 2008- | Noise-Induced Hearing Loss Expert Seminar Series (AudiologyOnline)
AudiologyOnline.com | Guest Moderator of four invited presentations, presented weekly
On-line webinar |

Local Invited Presentations

- 2002 Auditory Risk Assessment of Portable Compact Disc Players, Findings and Clinical Implications
Otolaryngology and Communication Disorders, Children's Hospital Boston
- 2003 Factors Associated with Sensorineural Hearing Loss in Survivors of Extracorporeal Membrane Oxygenation Therapy
Otolaryngology and Communication Disorders, Children's Hospital Boston
- 2004 Electrophysiological Marker for Enlarged Vestibular Aqueduct? The N3 Potential Recorded in the Auditory Brainstem Response
Otolaryngology and Communication Disorders, Children's Hospital Boston
- 2004 Industrial Audiology
Occupational Health, Children's Hospital Boston
- 2005 Objective Assessment of Auditory Function
Metals Epidemiology Research Group, Harvard School of Public Health
- 2005 Factors Associated with Sensorineural Hearing Loss in Graduates of Extracorporeal Membrane Oxygenation
2nd Annual Children's Hospital-Harvard Medical School Symposium in Cellular, Molecular, and Clinical Research in Surgery
- 2007 Noise-Induced Hearing Loss: Scope of the Problem in the Civilian Population (Harvard School of Public Health)
Acute and Chronic Noise Exposure: Strategies for Preventing, Diagnosing, and Treating Hearing Loss, Harvard School of Public Health
- 2007 iPods and Hearing Loss: Truth or Media Hype (Harvard School of Public Health)
Acute and Chronic Noise Exposure: Strategies for Preventing, Diagnosing, and Treating Hearing Loss, Harvard School of Public Health

- 2008 MP3 Players and NIHL: Amid the Hype a Valid Concern? (Harvard School of Public Health)
Acute and Chronic Noise Exposure: Strategies for Preventing, Diagnosing, and Treating Hearing Loss, Harvard School of Public Health
- 2010 Pediatric Ototoxicity and Tinnitus
Guidelines for Monitoring and Grading Pediatric Ototoxicity: Pediatric Neuro-oncology staff development meeting, Dana Farber Cancer Institute
- 2012 Diagnosis and Audiologic Management of Acquired Hearing Loss and Tinnitus
Otolaryngology and Communication Enhancement, Boston Children's Hospital
- 2016 Hearing Loss Prevention for Audio Engineers
iZotope Education, iZotope, Inc., Cambridge, MA

Report of Regional, National and International Invited Teaching and Presentations

[Invited Presentations and Courses](#)

Those presentations below sponsored by outside entities are so noted and the sponsors are identified

Regional

- 2003 Auditory Risk Assessment of Portable Compact Disc Players
Northeastern University, Department of Communication Disorders, Boston, MA
- 2003 Auditory Steady-State Response in a Pediatric Audiology Clinic
Massachusetts Speech-Language Hearing Association, Worcester, MA
- 2003 Hearing Assessment and Intervention Across the Lifespan
Advance Job Fair and Continuing Education Event, Boston, MA (Advance)
- 2003 Stimulation or Over-Exposure? Children and Sound-Emitting Products
The First Years, Inc., Research and Development Seminar, Randolph, MA (The First Years, Inc.)
- 2004 Pediatric Audiology: 101
SHI*HI training of Parent Advisors, Randolph, MA
- 2005 Prescriptive Fitting of Custom Hearing Protection
Massachusetts Speech-Language Hearing Association, Worcester, MA
- 2005 Factors Associated with Sensorineural Hearing Loss in Graduates of Extracorporeal Membrane Oxygenation
Northeastern University, Department of Communication Disorders, Boston, MA
- 2006 Headphones and Hearing Loss, Separating Truth from Fiction
Greater Boston Chapter of the Acoustical Society of America, Boston, MA
- 2006 Headphones and Hearing Loss: Separating Truth from Fiction
New England Audiology Update 2006, Worcester, MA (Massachusetts Academy of Audiology)
- 2007 Music-Induced Hearing Loss
New England Audiology Update 2007, Worcester, MA (Massachusetts Academy of Audiology)
- 2007 Music-Induced Hearing Loss, keynote address
New Hampshire-Maine Academy of Audiology, Portland, ME (NH-ME Academy of Audiology)
- 2008 If I can Hear It Does That Mean It's Too Loud? Headphones and Risk for Hearing Loss
Greater Boston Chapter of the Acoustical Society of America, Boston, MA

- 2009 Music-Induced Hearing Loss: Is it happening to you?
Elms College, Department of Communication Disorders Chicopee, MA
- 2009 Music-Induced Hearing Loss: Prevention, Intervention, and the Role of Devices
iZotope, Inc., Cambridge, MA
- 2011 Noise-Induced Hearing Loss in Children: What are the Risks and Where is the Evidence?
Perspectives in Childhood Hearing and Communication, The New England
Otolaryngological Society
- 2015 Children and Music
Just the Right Volume: An Essential Conversation about Hearing, Berklee College of
Music, Boston, MA

National

- 2003 Pediatric Audiology: 101 'The hearing-bone is connected to the speech-bone'
5th Annual National Conference on Tar Creek, EPA Superfund site, Miami, OK (NIEHS
P42 ES005947-13S1)
- 2004 Output Levels of Commercially Available Compact Disc Players: Implications for Hearing
Conservation
American Academy of Audiology National Convention, Salt Lake City, UT
- 2005 Objective Hearing Tests and Metals Exposure
7th Annual National Conference on Tar Creek, EPA Superfund site, Miami, OK (NIEHS
P42 ES005947-13S1)
- 2005 Recreational Noise Exposure Causes Hearing Loss: The Debate, debating the affirmative
30th Annual Conference of the National Hearing Conservation Association, Tucson, AZ
- 2006 Factors Associated with Sensorineural Hearing Loss in Survivors of Extracorporeal
Membrane Oxygenation Therapy
Kentucky Speech-Language-Hearing Association (KSHA), Louisville, KY (KSHA)
- 2006 Utility of ASSR in the Pediatric Audiology Clinic
Kentucky Speech-Language-Hearing Association (KSHA), Louisville, KY (KSHA)
- 2006 Risk of Noise-induced Hearing Loss from Non-Occupational Noise Exposures
Kentucky Speech-Language-Hearing Association (KSHA), Louisville, KY (KSHA)
- 2006 Music-Induced Hearing Loss: assessment, prevention, and management
Illinois Speech-Language and Hearing Association (ISHA), Peoria, IL (ISHA)
- 2006 Output Levels of Commercially Available Portable Music Players and the Potential Risk to
Hearing
Noise-Induced Hearing Loss in Children at Work & Play, Cincinnati, OH
- 2006 Does Earphone Type Affect Risk for Recreational Noise-Induced Hearing Loss?
American Auditory Society, Scottsdale, AZ
- 2007 Does Headphone Use Increase Risk for Hearing Loss?
Illinois Academy of Audiology (ILAA), Chicago, IL (ILAA)
- 2007 Music-Induced Hearing Loss
National Student Speech-Language and Hearing Association (NSSLHA), Memphis, TN
(NSSLHA)
- 2007 Music-Induced Hearing Loss, keynote address
Pennsylvania Academy of Audiology (PAA), Harrisburg, PA (PAA)
- 2007 The Debate: Should Flat-Frequency Attenuating Hearing Protection Always be
Recommended for Musicians (chair of forum, and debating the negative)
32nd Annual Conference of the National Hearing Conservation Association, Savannah, GA
- 2008 Music-Induced Hearing Loss

- West Virginia Speech-Language-Hearing Association (WVSLHA), Flatwoods, WV (WVSLHA)
- 2008 Ototoxicity-Induced Hearing Loss
West Virginia Speech-Language-Hearing Association (WVSLHA), Flatwoods, WV (WVSLHA)
- 2008 Occupational and Recreational Noise-Induced Hearing Loss
Phonak U, Warrenville, IL (Phonak AG)
- 2008 Acoustics of the External Ear
Phonak U, Warrenville, IL (Phonak AG)
- 2008 Prevention of Occupational and Non-Occupational Music-Induced Hearing loss
Salus University, Elkins Park, PA (Salus University)
- 2008 Non-occupational hazardous noise exposures of young people
Engineering Responses to Hazardous Noise Exposure, National Academy of Engineering (NAE), Washington, DC (NAE)
- 2009 Music-Induced Hearing Loss: Risks and Prevention Strategies
Minnesota Academy of Audiology (MAA), Minneapolis, MN (MAA)
- 2009 Music-Induced Hearing Loss: Risks and Prevention Strategies
Ohio Academy of Audiology (OAA), Columbus, OH (OAA)
- 2009 Pediatric Grand Rounds
AudiologyNOW! Annual convention Featured Session of American Academy of Audiology (AAA), Dallas, TX
- 2009 NIHL Prevention for Musicians: Science Meets Grass Roots
AudiologyNOW! Annual convention Featured Session American Academy of Audiology (AAA), Dallas, TX
- 2009 Music-Induced Hearing Loss: Prevention, Intervention, and the Role of Hearing Aids
University of California at San Francisco, San Francisco, CA (UCSF)
- 2009 Noise Exposure Estimates of Urban MP3 Player Users
American Speech-Language-Hearing Association, New Orleans, LA
- 2010 Prevention of Occupational and Non-Occupational Music-Induced Hearing loss
Salus University, Elkins Park, PA (Salus University)
- 2010 Audiologic and Vestibular Assessment of the Pediatric Patient
AudiologyNOW! Annual convention Preconvention workshop of American Academy of Audiology (AAA), San Diego, CA
- 2010 Prevention of Music-Induced Hearing Loss
Ohio Speech-Language-Hearing Association (OSLHA), Columbus, OH (OSLHA)
- 2010 Noise-Induced Hearing Loss: Risks and Prevention for Children and Adolescents
New Jersey Speech-Language-Hearing Association (NJSHA), Atlantic City, NJ (NJSHA)
- 2010 Taming the Research Question
Arkansas Academy of Audiology (ArAA), Little Rock, AR (ArAA)
- 2010 Prevention of Music-Induced Hearing Loss
Arkansas Academy of Audiology (ArAA), Little Rock, AR (ArAA)
- 2010 Prevention of Music-Induced Hearing Loss
Pennsylvania Academy of Audiology (PAA), Penn State, PA (PAA)
- 2010 Audiological Diagnostic Follow-up to Newborn Hearing Screening Refers: Lessons Learned in MA, keynote address
Pennsylvania Academy of Audiology (PAA), Penn State, PA (PAA)
- 2011 Audiologic and Vestibular Assessment of the Pediatric Patient
Georgia Academy of Audiology (GAA)

- 2011 Guidelines for Monitoring and Grading Pediatric Ototoxicity
AudiologyNOW! Annual convention of American Academy of Audiology (AAA), Chicago, IL
- 2011 Do What You Are Good At! A Pep Talk to My 26 Year Old Self
Towson University Doctor of Audiology White Coat Ceremony, keynote address (Towson University Student Academy of Audiology)
- 2012 Music-Induced Hearing Disorders: Diagnosis and Management
Illinois Academy of Audiology (ILAA), Chicago, IL (ILAA)
- 2012 Recreational Noise Exposure: When Fun is Hazardous to Your Hearing!
AudiologyNOW! Annual convention of American Academy of Audiology (AAA), Boston, MA
- 2012 Chemotherapy Dosing and Ototoxicity Monitoring Protocols in Children
AudiologyNOW! Annual convention of American Academy of Audiology (AAA), Boston, MA
- 2012 Diagnosis and Management of Music-Induced Hearing Disorders
National Center for Rehabilitative Audiologic Research (NCRAR), Portland, OR (NCRAR)
- 2012 Early Diagnosis and Management of Pediatric Hearing Loss from Medical Interventions
Idaho Speech and Hearing Association (ISHA) Convention, Boise, Idaho (ISHA)
- 2012 Music-Induced Hearing Disorders: Diagnosis and Management
Idaho Speech and Hearing Association (ISHA) Convention, Boise, Idaho (ISHA)
- 2012 Chemotherapy Dosing and Ototoxicity Monitoring Protocols
Soundwave Symposium, San Diego, CA (Rady Children's Hospital)
- 2012 Noise Exposure, Personal Hearing Devices, and Hearing Protection
Soundwave Symposium, San Diego, CA (Rady Children's Hospital)
- 2013 Clinical Verification of Custom-fitted Musicians Earplugs: How Much Deviation From "Flat" is Acceptable?
38th Annual Conference of the National Hearing Conservation Association, Tampa, FL
- 2013 Diagnosis and Management of Music-Induced Hearing Disorders
23rd Annual Mayo Clinic Audiology Conference, Rochester, MA (Mayo Clinic)
- 2013 Ototoxicity and Pediatrics
Nebraska Speech-Language and Hearing Association (NSLHA) Convention, Kearney, NE (NSLHA)
- 2013 Noise-Induced Hearing Loss: Basics to Advanced Assessment and Treatment
JFK Medical Center, Edison, NJ (JFK Medical Center)
- 2014 How to Integrate 3D Ear Scanning into Your Audiology Practice
AudiologyNOW!, Orlando, FL (American Academy of Audiology)
- 2014 Advances in Noise-Induced Hearing Loss Assessment and Treatment
Connecticut Academy of Audiology (CTAA) Convention, Rocky Hill, CT (CTAA)
- 2014 Advances in Assessment and Treatment of Music-Induced Hearing Loss
Iowa Speech-Language and Hearing Association (ISHA) Convention, Des Moines, IA (ISHA)
- 2016 Preventing Premature Aging of Young Ears from Noise
Georgia Academy of Audiology (GAA) Convention, Atlanta, GA (GAA)
- 2016 Whole Family Approaches to Managing Childhood Hearing Loss
Indiana Hands and Voices, Indianapolis, IN (Hands and Voices of Indiana)

International

- 2008 Risk for NIHL from Personal Listening Devices

- 2009 9th Congress, International Commission on Biological Effects of Noise, Foxwoods, CT
Hearing Loss Risk from Using Portable Media Players
University of Bristol and University of Swansea, Bristol, UK (University of Bristol)
- 2009 Music-Induced Hearing Loss: Yes, Headphones Can Cause Hearing Problems
International Audiology Meeting, Bauru, Brazil (Brasilia Academy of Audiology)
- 2009 Ototoxicity in Medically Fragile Children
International Audiology Meeting, Bauru, Brazil (Brasilia Academy of Audiology)
- 2009 Newborn Hearing Screening Diagnostic Follow-up: Lessons Learned in Massachusetts,
USA, keynote address
International Audiology Meeting, Bauru, Brazil (Brasilia Academy of Audiology)
- 2011 Hearing Loss Risk from Recreational Noise Exposures
12th International Conference on the Biological Effects of Noise, London, UK
- 2012 Early Diagnosis and Management of Hearing Loss in Medically Fragile Children
7th Widex Paediatric Congress, Lake Como, Italy (Widex)
- 2013 Noise Hazards from Musical Entertainment: Concerts, Cans, and Kids
Innovations in Noise-Induced Hearing Loss and Tinnitus Prevention in Kids, St. Paul, MN
(3M, National Hearing Conservation Association, and Dangerous Decibels™)
- 2014 It's A Noisy World (Plenary/keynote presentation)
British Academy of Audiology Annual Convention, Bournemouth, UK (British Academy
of Audiology)
- 2014 Ototoxicity in Medically Fragile Children (workshop)
British Academy of Audiology Annual Convention, Bournemouth, UK (British Academy
of Audiology)
- 2014 Personal Protective Equipment for a Noisy World (workshop)
British Academy of Audiology Annual Convention, Bournemouth, UK (British Academy
of Audiology)
- 2015 Possibilities For Promoting Safe Listening To Prevent Hearing Loss
World Health Organization/International Telecommunications Union, Geneva, Switzerland
(WHO/ITU)
- 2016 WHO Recommended Standards for Make Listening Safe: Working Group Report
World Health Organization/International Telecommunications Union, Geneva, Switzerland
(WHO)

Report of Clinical Activities and Innovations

Current Licensure and Certification

- 2002 Massachusetts Audiology License
- 2002 Certificate of Clinical Competence in Audiology, American Speech-Language Hearing
Association
- 2011 Board Certification in Audiology, American Board of Audiology
- 2011 Pediatric Audiology Specialty Certification, American Board of Audiology

Practice Activities

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| 1998-2002 | Newborn hearing
screenings | Well-baby and NICU, Boston
Medical Center | Two sessions per week |
| 2001-2002 | Ambulatory care | Pediatric Audiology,
Children's Hospital Boston | Five sessions per week |

2002-2005	Ambulatory and inpatient care	Pediatric Audiology, Children's Hospital Boston	Three sessions per week
2005-2013	Ambulatory and inpatient care	Pediatric Audiology, Children's Hospital Boston	Three sessions per week
2009-2013	Ambulatory care and inpatient care, including audiology extern supervision session	Pediatric Audiology, Musicians' Hearing Program, Children's Hospital Boston	Three sessions per week
2014-	Ambulatory care, pediatric and adult audiology care	Musicians' Hearing Program, Boston Audiology Consultants	Two sessions per week

Clinical Innovations

Audiology-Otolaryngology sequential scheduling (2009)	Developed an algorithm to determine if a patient scheduled with an otolaryngologist needs to be seen by an audiologist the same day for diagnostic evaluation, targeting 90% sensitivity and 90% specificity for appropriate scheduling with an audiologist. The algorithm is built into scheduling software as a questionnaire and is used by administrative support staff while scheduling the patient; the result is to significantly improve clinical efficiency in both the Audiology and Otolaryngology clinic flow.
Verification of custom hearing protection	Developed a process that satisfies Common Procedure Terminology (CPT) code for very fast verification of the attenuation characteristics of custom-fitted hearing protection to assure device performance using equipment designed to verify hearing aid function. This method has been described in the refereed literature and has been presented at several national and international meetings.
Tailor-Made earpieces, consumer earphones	In conjunction with product developers at Lantos Technologies, Inc., devised process for evaluating form factor and acoustical properties for providing custom-fitted earpieces for consumer earphones (for music-listening, etc.) from direct-ear 3D scanning, balancing the competing challenges of comfort and passive sound isolation.

Report of Technological and Other Scientific Innovations

Electronic Audiogram (2007)	No patent filed, per Intellectual Property Office, Children's Hospital Boston Reduced to practice a unique point-of-care solution utilizing mobile tablet computers and handwriting recognition and interface with clinical audiology equipment. The result was an electronic form that interfaces with Children's Hospital Boston electronic medical record.
Ear Health Monitoring System and Method I	Patent # US 8,194,864 issued 6/5/2012; and Patent # US 8,917,880, issued 12/23/2014 In the capacity as an outside consultant to Personics Holdings, Inc (Boca Raton, FL), co-authored a patent for a system configured to be inserted in an ear canal and monitor sound exposures to the users as a function of drive signal from a receiver in the ear canal. This is pertinent to design and use of earplugs with communication functionality.

Ear Health Monitoring
System Method II

Patent # US 8,199,919, issued 6/12/2012

In the capacity as an outside consultant to Personics Holdings, Inc (Boca Raton, FL), co-authored a patent for a system configured to be inserted in an ear canal and monitor sound exposures to the users as a function of ambient noise signal observed by a microphone in the ear canal. This is pertinent to design and use of earplugs with real-time, integrating, noise-exposure monitoring.

Ear Health Monitoring
System Method III

Patent # US 8,208,644, issued 6/26/2012

In the capacity as an outside consultant to Personics Holdings, Inc (Boca Raton, FL), co-authored a patent for a system configured to be inserted in an ear canal and monitor sound exposure to the users as a function of ambient sound on the outside of the earplug and the drive signal from a receiver in the ear canal. This is pertinent to the design of earplugs with communication functionality, assessing adequate signal-to-noise ratio for communicating in high level noise, and monitoring real-time, integrating noise-exposures.

Ear Health Monitoring
System Method IV

Patent # US 8,462,956, issued 6/11/2013

In the capacity as an outside consultant to Personics Holdings, Inc (Boca Raton, FL), co-authored a patent for a system configured to be inserted in an ear canal and assess and manipulate in real-time the attenuation properties of an earplug based on ambient noise levels observed on the outside of the earplug and sound in the ear canal observed by a microphone in the ear canal.

Custom Earbud Scanning and
Fabrication

Provisional Patent submitted 10/9/2015

Systems, methods, apparatuses, and computer readable media are disclosed for scanning the interior of the human ear and producing a custom earbud based on the scan. In some example embodiments, a system comprises a scanning apparatus to determine an electronic representation of an interior shape of a human ear, wherein the scanning apparatus may include an elastic membrane inflated with a liquid to conform to the interior shape of the human ear, and wherein the liquid may attenuate a first optical wavelength a predetermined amount more than a second optical wavelength. The system may further include an adjusting apparatus to modify the electronic representation and/or a fabrication apparatus to produce an earbud according to the modified electronic representation.

Report of Education of Patients and Service to the Community

Activities

2002-2006 Coordinator for Hearing Health Screenings for annual health fair for North American Indian Center of Boston (NAICOB), Boston, MA
Supervised booth at health fair for local Native American community center raising

- awareness of hearing and middle-ear health, supervised graduate audiology students providing audiometric and tympanometric screenings for members of NAICOB.
- 2004 Massachusetts Speech-Language-Hearing Association, Co-chair of Governmental Affairs Committee
Successfully advocated enactment of “An Act Relative to the Certification of Speech-Language Pathology Assistants and Audiology Assistants” of the Acts of 2004, Massachusetts General Laws Chapter 433
- 2004 SKI*HI Parent Advisor training conference, Planning Committee Co-chair
Conference to train Parent Advisors in SKI*HI Curriculum to provide family-centered Early Intervention for children with hearing loss age 0 – 5 years of age.
- 2004 State Representative Kathleen Teahan
Presented “Impact of Community Noise on Child Development” at the request of Children's Hospital Boston Director of State and Federal Relations
- 2005- National Youth Leadership Foundation (NYLF) for careers in Medicine
Host high-school students attending NYLF summer camp at Children's Hospital Boston Audiology Services for introduction to the field of Audiology as a potential career path.
- 2006 “Tuned in Today, Tuned Out Tomorrow” American Speech-Language and Hearing Association (ASHA), National Press Club, Washington, DC (ASHA)
Presented “Hearing Loss Risk from Personal Stereo Systems” in press conference to congressmen and members of the popular media
- 2008 Health fair, Belmont High School, Belmont, MA
Participated in a high-school health fair discussing hearing loss prevention and risks from abusive use of personal stereo systems.
- 2009 Mansfield High School, Mansfield, MA
Presented “Music-Induced Hearing Loss: Risks and Prevention” to high-school band and choir students and teaching faculty.
- 2011 Dana Farber Cancer Institute Parent Support Group: Audiology and Hearing Loss
Presentation about hearing loss and tinnitus from ototoxicity and audiological and educational interventions for both to parents of survivors of pediatric cancer.
- 2013 Mansfield Public Schools, Mansfield, MA
Screening for hearing loss in school-aged children: inservice for public school nurses.
- 2015 Jordan-Jackson Elementary School, Mansfield Public Schools, Mansfield, MA
Lead a workshop inspired by the Dangerous Decibels curriculum to teach 5th grade students about hearing health and hearing loss prevention; incorporated into the music and health class curricula

[Educational Material for Patients and the Lay Community](#)

Books, monographs, articles and presentations in other media

- | | | | |
|------|---|---------------------|---|
| 2002 | Three Surprisingly Easy Ways to Save Your Child's Hearing | Contributing expert | Women's World 2002 Feb 12; Safety First. |
| 2003 | The Harmful Effects of Leisure Noise on Hearing | Author | Exhibit, The Museum of Science (Boston, MA) |
| 2004 | Understanding Hearing Loss in the Elderly | Co-author | Advance for Nurses 2004 Apr 26:27-28. |

2004	Newborn Hearing Screening	Co-author	Advance for Nurses 2004 Nov 8:22-23, 25.
2005	The MP3 Generation: At Risk for Hearing Loss?	Contributing expert	WebMD.com
2005	Do Music Players Harm Hearing?	Contributing expert	Consumer Reports, October 2005
2005-	Hearing Loss Prevention for the iPod Generation	Source/contributing expert	NBC Nightly News, CBS Evening News, Good Morning America, Chronicle, (print, radio, television)
2009	Protect Your Ears from Noise	Contributing expert	Consumer Reports, July 2009
2009	Audiological Evaluation of Children with Progeria	Author, chapter in clinical care guide for physicians	Progeria Research Foundation
2010	Recreational Noise	Author, book chapter (Auricle Ink Publishing, Sedona, AZ)	<u>The Consumer Handbook on Hearing Loss and Noise</u> , Ed. Marshall Chasin.
2012	Your Guide to Hearing Loss Prevention	Author, eGuide (Better Hearing Institute)	http://www.betterhearing.org/press/free/
2015	<u>Understanding Childhood Hearing Loss: Whole Family Approaches to Living and Thriving</u>	Author (Rowman & Littlefield, Lanham, MD)	General audience book (190 pages) on pediatric hearing loss: impact on the child and family First book in series “ <i>Whole Family Approaches to Childhood Illnesses and Disorders</i> ” (series editor)

Patient educational material

2003	How to Protect Your Hearing from Damage Caused by Loud Noise or Music	Author	Patient education pamphlet, Children's Hospital Boston
2009	Musicians’ Hearing Program: Hearing Loss Prevention Program for Professional Musicians, Pre-professional Musicians, and Music consumers	Author	www.childrenshospital.org/MusiciansHearingProgram
2015	Hearing Loss and Tinnitus Prevention and Treatment	Author	www.bosaudconsult.com

Recognition

2005	“The Best of Audiology Literature 2004: Diagnostic Audiology”	The Hearing Journal
2008	“The Best of Audiology Literature 2007: Audiologic Rehabilitation”	The Hearing Journal

Report of Scholarship

Peer reviewed publications in print or other media

Research Investigations

1. 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.
2. 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.
3. **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.
4. **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.
5. 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.
6. Cheng AG, Johnston PR, Luz J, Uluer A, **Fligor B**, Licameli GR, Kenna MA, Jones DT. Sensorineural hearing loss in patients with cystic fibrosis. *Otolaryngology Head and Neck Surgery*. 2009;141(1):86-90.
7. Kenna MA, Feldman HA, Neault MW, Frangulov A, Wu BL, **Fligor B**, Rehm HL. Audiologic phenotype and progression in GJB2 (Connexin 26) hearing loss. *Archives of Otolaryngology Head and Neck Surgery*. 2010;136(1):81-7.
8. Levey S, Levey T, **Fligor BJ**. Noise exposure estimates of urban MP3 player users. *Journal of Speech Language and Hearing Research*. 2011;54(1):263-77.
9. Dornan B, **Fligor B**, Whittemore K, Zhou G. Pediatric hearing assessment by auditory brainstem response in the operating room. *International Journal of Pediatric Otolaryngology*. 2011;75:935-938.
10. Portnuff CDF, **Fligor BJ**, Arehart KH. Teenage use of portable listening devices: A hazard to hearing? *Journal of the American Academy of Audiology*. 2011;22:663-677.
11. Brock PR, Knight KR, Freyer DR, Campbell KC, Steyger PS, Blakley BW, Rassekh SR, Chang KW, **Fligor BJ**, Rajput K, Sullivan M, Neuwelt EA. Platinum-induced ototoxicity in children: a consensus review on mechanisms, predisposition, and protection, including a new International Society of Pediatric Oncology Boston ototoxicity scale. *Journal of Clinical Oncology*, 2012;30(19):2408-17.
12. Gordon LB, Kleinman ME, Miller DT, Neuberger DS, Giobbie-Hurder A, Gerhard-Herman M, Smoot LB, Gordon CM, Cleveland R, Snyder BD, **Fligor B**, Bishop WR, Statkevich P, Regen A, Sonis A, Riley S, Ploski C, Correia A, Quinn N, Ullrich NJ, Nazarian A, Liang MG, Huh SY, Schwartzman A, Kieran MW. Clinical trial of a farnesyltransferase inhibitor in children with Hutchinson-Gilford progeria syndrome. *Proceedings of the National Academy of Sciences, USA*. 2012 Sep 24
13. Portnuff CD, **Fligor BJ**, Arehart KH. Self-report and long-term field measures of MP3 player use: how accurate is self-report? *International Journal of Audiology*, 2013; 52 Suppl 1:S33-40.
14. Levey S, **Fligor BJ**, Cutler C, Harushimana I. Portable music player users: cultural differences and potential dangers. *Noise and Health*. 2013 Sep-Oct;15(66):296-300.
15. **Fligor BJ**, Levey S, Levey T. Cultural and Demographic Factors Influencing Noise Exposure Estimates from Use of Portable Listening Devices in an Urban Environment. *Journal of Speech Language and Hearing Research*. *Journal of Speech Language and Hearing Research*. 2014;57(4):1535-47.

16. Dennett KV, **Fligor BJ**, Tracy S, Wilson JM, Zurakowski D, Chen C. Sensorineural hearing loss in congenital diaphragmatic hernia survivors is associated with postnatal management and not defect size. *Journal of Pediatric Surgery*. 2014 Jun;49(6):895-9.
17. Tarshish Y, Huang L, Jackson FI, Edwards J, **Fligor B**, Wilkins A, Uluer A, Sawicki G, Kenna M. Risk Factors for Hearing Loss in Patients with Cystic Fibrosis. *Journal of the American Academy of Audiology*. 2016 Jan;27(1):6-12.

Other Peer-Review Publications

1. **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.
2. Litovsky RY, **Fligor BJ**, Tramo MJ. Functional role of the human inferior colliculus in binaural hearing. *Hearing Research* 2002;165(1-2):177-88.
3. **Fligor BJ**. Personal listening devices and hearing loss: seeking evidence of a long term problem through a successful short-term investigation. *Noise & Health*. 2009;11(44):129-31.
4. **Fligor BJ**, Mullen CH. Audiological monitoring for ototoxicity in medically complex children. *Seminars in Hearing*. 2011;32(3):273-280.
5. **Fligor BJ**, Krasker JD, Villaluna D, Krailo M, Frazier AL. “Accelerated ear-age” a new measure of chemotherapy-induced ototoxicity. *Pediatric Blood and Cancer*, 2012;59(5):947-949.
6. **Fligor BJ**. Early Diagnosis and Management of Hearing Loss in Medically Fragile Children. *Seminars in Hearing*, 2013;34(1): 27-36.
7. **Fligor BJ**. Verification of Flat Attenuation Characteristics of Musicians Earplugs. *Journal of the Audio Engineering Society, Suppl. Proceedings of the 47th International Conference: Music Induced Hearing Disorders*. June 20, 2012: Paper Number 15.
8. Portnuff CDP, **Fligor BJ**, Arehart KH. New measurement techniques for portable listening devices: technical report. *Journal of the Audio Engineering Society*, 2013; 61(10): 1-6.

Non-peer reviewed scientific or medical publications/materials in print or other media

Proceedings of meetings or other non-peer reviewed research publications

1. **Fligor BJ** & Cox LC. Risk to Hearing from Personal Stereo Systems. *Audiology Today* 2005 Mar/Apr: 18-19.
2. **Fligor BJ**. “Portable” Music and Its Risk to Hearing Health. *Hearing Review* 13(3) March 2006: 68-72.
3. Portnuff CDF & **Fligor BJ** (2006) Sound output levels of the iPod and other MP3 players: Is there potential risk to hearing? Paper presented at the NIHL in Children Meeting, Cincinnati, OH. Brief report available at <http://nhca.affiniscape.com/displaycommon.cfm?an=1&subarticlenbr=112>
4. **Fligor BJ** & Ives TE (2006). Does headphone type affect risk for recreational noise-induced hearing loss? Paper presented at the NIHL in Children Meeting, Cincinnati, OH. Brief report available at <http://nhca.affiniscape.com/displaycommon.cfm?an=1&subarticlenbr=112>
5. **Fligor BJ**. Hearing loss and iPods: What happens when you turn them to 11? *Page Ten, The Hearing Journal* 60(10) October 2007: 10-16.
6. Weiner J, Kreisman BM, **Fligor BJ**. If I can hear their headphones, it’s too loud, right? *Audiology Today* 21(3), 2009: 44-51.
7. **Fligor BJ** & Wartinger F. Musicians’ Hearing Program. *Audiology Today* 23(3), 2011: 30-39.

Reviews, chapters, monographs, and editorials

1. **Fligor BJ.** Do Headphones Cause Hearing Loss? In Hearing Loss in Musicians: Prevention and Management, Ed. Marshall Chasin. Plural Publishing, San Diego, CA. 2009.
2. **Fligor BJ.** Pediatric Audiology. In Pediatric Otolaryngology, Principles and Pathways, 2nd Edition. Eds. Ralph Whetmore, Harlan Muntz, and Trevor McGill. Thieme Medical Publishers, Inc., New York, NY. 2012.
3. **Fligor BJ.** The Effect of Hearing Loss on Language. In Introduction to Language Development, Eds. Sandra Levey and Stephen Cavallo. Plural Publishing, San Diego, CA. 2013.
4. **Fligor BJ.** The Assessment of Hearing and Middle-Ear Function in Children. In Bluestone and Stool's Pediatric Otolaryngology, 5th Edition. Eds. Charles D. Bluestone, Jeffrey P. Simons, Gerald B. Healy. People's Medical Publishing House, Opalaka, FL. 2014.
5. **Fligor B,** Chasin M, Neitzel R. Noise Exposure. In Handbook of Clinical Audiology, 7th Edition. Eds. Jack Katz, Marshall Chasin, Robert Burkhard, and Linda Hood. Lippincott Williams and Wilkins, Philadelphia, PA. 2014.

Thesis

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

Narrative Report

I am the Chief Audiology Officer at Lantos Technologies, Inc. (Wakefield, MA), and president and principal clinician at Boston Audiology Consultants and Musicians' Hearing Program (Mansfield, MA), a part-time private audiology clinical and consulting practice. I am adjunct faculty at Salus University (Elkins Park, PA). My principle focus is on clinical expertise and technical innovation, with a secondary focus on teaching and education.

Lantos Technologies is a venture-funded start-up technology company that has developed a direct optical 3D external ear scanner, and manufactures products made from direct ear scans (including custom hearing protection devices, custom-fitted consumer electronics devices, and earmolds for coupling hearing aids to patients' ears). It is an MIT-spinoff company that was incorporated in 2009 and launched its first commercial venture in fourth quarter 2015. As Chief Audiology Officer at Lantos Technologies, my role is primarily to liase between Engineering and Commercial, including design and execution of research protocols, product development, verification and validation of the technology, business development, sourcing investment for the company, marketing, and public relations. I have seven employees who are direct reports, including two audiologists and two engineers. I am a member of the executive leadership team, and report to the Lantos Chief Executive Officer and participate in meetings of Lantos Board of Directors. In 2015, I led work on establishing an in-house custom-fit earmold lab (including CAD modeling of custom products from direct external ear scans and 3D printing; provisional patent application submitted October 9, 2015) while launching a "pop-up" commercial retail store at the Burlington Mall (Burlington, MA). I hired a team of six scan technicians (non-audiologists), trained them to do ear scanning with the Lantos AURA 3D ear scanner, and sell custom-fitted products to customers. I sourced a pre-commercial consumer earphone and led discussions between an external partner, Sensaphonics Hearing Wellness (Chicago, IL), and Lantos Technologies. The outcome of this partnership between Sensaphonics and Lantos is the Uvero™ tailor-made earphone (www.uvero.com). I participated in the branding strategy and development of collateral. I evaluate new business opportunities and external

partnerships in areas of future scanning applications, including hearing protection devices, hearing aids, wearable/hearable technology, and medical (non-ear) applications. With Lantos CEO, I am spokesperson for Uvero and Lantos with media. I continue to serve as subject matter expert for popular media in areas of noise-induced hearing loss and noise-induced tinnitus. I am the chair of the Standards Working Group for the World Health Organization (WHO; Geneva, Switzerland) Make Listening Safe™ initiative, which seeks to establish guidelines for consumers, manufacturers, and healthcare professionals for safer use of portable listening devices (iPods, etc.).

I continue providing clinical care as owner and principal audiologist at Boston Audiology Consultants, Inc. (www.bosaudconsult.com). This is my private practice, through which I perform a full suite of audiology diagnostic and treatment services, particularly for musicians and audio engineers. My practice has a focus on interventions for improved musical appreciation in hearing aid programming and tinnitus management (including cognitive behavioral therapy and sound enhancement/desensitization). My clinical focus is a continuation of the Musicians' Hearing Program (MHP), which I started in 2009 while I was director of diagnostic audiology at Boston Children's Hospital (BCH) and Assistant Professor at Harvard Medical School (HMS). The MHP was an offshoot of my dissertation work (and considerable popular media attention that followed), peer-reviewed articles and book chapters and ongoing research on music-induced hearing loss. Through Boston Audiology Consultants, I provide technical consulting services as scientific advisory board member for external commercial entities, provide expert consultant services for civil litigation (medical malpractice, worker's compensation, disability discrimination) and intellectual property review.

I continue collaborative efforts with colleagues at BCH and HMS, in particular with oncologists at Dana-Farber Cancer Institute (DFCI), specifically participating in data analysis and interpretation of results from chemotherapy clinical protocols. My clinical experience at BCH focused on early identification and audiological treatment for adventitious onset of sensorineural hearing loss, and my research program was an extension of my clinical activities. Relevant publications stemming from my research program include a paper on ECMO (*Fligor et al, 2005*) which was published in *Pediatrics* and prominently incorporated into the Joint Committee on Infant Hearing (JCIH) 2007 position statement. In working with DFCI, I developed a sensitive ototoxicity grading scale and published this work in 2009 (*Lewis et al*), which is now the basis for a new international ototoxicity grading scale (International Society of Pediatric Oncology, October 2010). My pediatric audiology experience culminated in authorship of Understanding Childhood Hearing Loss: Whole Family Approaches to Living And Thriving, published by Rowman and Littlefield Publishers (Lanham, MD) October 2015.

In 2011 I received a teaching grant to support my work with the BCH LEND program. The aims of this grant are to increase the number of pediatric audiology trainees with clinical skills necessary to conduct newborn hearing screening diagnostic follow-up. In collaboration with Northeastern University, this grant supported the development and offering of a 3-credit graduate course for Au.D. students that focuses on didactics and lab skills for evaluating the hearing of newborns. The specific aims of this grant continue under the new director at BCH.