### CURRICULUM VITAE ~ Matthew Lee Bush, MD, PhD, MBA, FACS

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Date Updated: July 8, 2025

### **CURRICULUM VITAE**

### Matthew Lee Bush, MD, PhD, MBA, FACS

**Professor and Chair** 

Tenured Faculty in the Special Title Series
University of Kentucky College of Medicine Endowed Chair
in Rural Health Policy

Department of Otolaryngology – Head & Neck Surgery Division of Otology, Neurotology, and Cranial Base Surgery University of Kentucky College of Medicine UK HealthCare



### I. GENERAL INFORMATION

Office Address 740 South Limestone, E300E

Lexington, KY 40536-0284

Email matthew.bush@uky.edu

<u>Telephone</u> (859) 257-5097 <u>Fax</u> (859) 257-5096

### **Professional Licensure and Certification**

**Kentucky Board of Medical Licensure** 

12/2010-present Active

**State Medical Board of Ohio** 

11/2008-07/2019 Expired

**Drug Enforcement Agency Controlled Substance Registration** 

07/2004-present Active

#### **Board Certification**

**National Board of Medical Examiners** 

07/2004-present Diplomate

**American Board of Otolaryngology** 

06/2009-present Diplomate, Otolaryngology 06/2012-present Diplomate, Neurotology

### **Research Certification**

**University of Kentucky Collaborative Institutional Training Initiative** 

06/2004-present Completion Certificate

### **Other Certification**

NBME: USMLE Step 1 (2001), 2 (2002), and 3 (2004) American Board of Otolaryngology Diplomate (#19963): Otolaryngology (2009) Neurotology (2012)

#### II. EDUCATION

### **Undergraduate**

**Bob Jones University** 

Greenville, South Carolina

8/1995-05/1999 Bachelor of Science, Pre-Medicine, Magna cum laude

### **Professional/Graduate**

Marshall University Joan C. Edwards School of Medicine

Huntington, West Virginia

08/1999-05/2003 Doctor of Medicine

**University of Kentucky College of Medicine** 

Lexington, Kentucky

08/2012-05/2017 Doctor of Philosophy (Clinical and Translational Science)

**University of Kentucky Gatton College of Business and Economics** 

Lexington, Kentucky

01/2018-08/2020 Master of Business Administration

### **Post-Graduate**

**University of Kentucky Medical Center** 

Lexington, Kentucky

07/2003-06/2004 General Surgery Internship

**University of Kentucky Medical Center** 

Lexington, Kentucky

07/2004-06/2008 Otolaryngology – Head and Neck Surgery Residency

07/2008-06/2009	The Ohio State University Medical Center and Nationwide Children's Hospital Research Institute Columbus, Ohio Research Fellowship (D. Bradley Welling, M.D., Ph.D. – Mentor)
07/2009-06/2011	The Ohio State University Medical Center Columbus, Ohio Neurotology and Cranial Base Surgery Fellowship (D. Bradley Welling, M.D., Ph.D. – Fellowship Director)
Continuing	(B. Bracie) Welling, MB., Thie Welley Breezer)
09/2010-10/2010	Center of Image-Guided Neurosurgery, University of Pittsburgh Pittsburgh, Pennsylvania Principles and Practice of Gamma Knife Radiosurgery
07/2010-06/2011	The Ohio State University Medical Center Columbus, Ohio Gamma Knife Radiosurgery Training (Mentor – John McGregor, M.D.)
04/2014	American Speech-Language-Hearing Association Gaithersburg, Maryland Lessons for Success (Research Scholar)
07/2014-08/2014	National Institutes of Health (NHLBI) Warrenton, Virginia Summer Institute on Randomized Behavioral Clinical Trials (Fellow)
07/2015	National Institutes of Health Pasadena, California Training Institute for Dissemination & Implementation Research (Fellow)
12/2015-05/2016	University of Kentucky Gatton College of Business and Economics Lexington, Kentucky Executive Healthcare Leadership Program
02/2017-01/2018	University of Kentucky Medical Center Lexington, Kentucky Talent Management Leadership Program
10/2017	T.H. Chan School of Public Health, Harvard University Boston, Massachusetts

Leadership Development for Physicians in Academic Health Centers

10/2017

## III. PROFESSIONAL EXPERIENCES

05/2000-08/2001	Marshall University School of Medicine Huntington, West Virginia Lab Assistant, Gross Anatomy Lab, Department of Anatomy and Cell and Molecular Biology, part-time (Mentor – Sasha Zill, PhD)
	University of Kentucky College of Medicine
	Lexington, Kentucky
07/2011-06/2016	Assistant Professor, Department of Otolaryngology – Head and Neck Surgery, full-time
07/2016-06/2021	Associate Professor <i>with tenure</i> , Department of Otolaryngology – Head and Neck Surgery, full-time
07/2021-present	Professor with tenure, Department of Otolaryngology – Head and Neck Surgery, full-time

### IV. ACADEMIC APPOINTMENTS

### **Faculty**

	University of Kentucky College of Medicine
07/2011-06/2016	Lexington, Kentucky <b>Assistant Professor</b> , Department of Otolaryngology – Head and Neck Surgery, Special Title Series, Tenure-track
07/2016-06/2021	Associate Professor, Department of Otolaryngology – Head and Neck Surgery, Special Title Series, With Tenure
07/2017-11/2023	Vice Chair for Research, Department of Otolaryngology – Head and Neck Surgery
07/2018-present	University of Kentucky College of Medicine Endowed Chair in Rural Health Policy
07/2021-present	<b>Professor</b> , Department of Otolaryngology – Head and Neck Surgery, Special Title Series, <i>With Tenure</i>
11/2023-present	<b>Department Chair,</b> Department of Otolaryngology – Head and Neck Surgery
01/2016-present	<u>University of Nairobi School of Medicine</u> Nairobi, Kenya <b>Honorary Lecturer</b> , Department of Surgery, Division of
on zoro present	Otorhinolaryngology – Head and Neck Surgery

### **Visiting Professorships/Honorary Lectures**

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Iniversity	of Nair	ahi Schaal	of Medicine
University	VI I Vall	ODI SCHOOL	or miculcine

Nairobi, Kenya

Otology Surgical Camp - Kenyatta National Hospital

01/2012 **Grand Rounds Presentations**:

- 1. Neuroradiology of the Lateral Skull Base
- 2. Vestibular Physiology and Testing
- 3. Approaches to the Lateral Skull Base
- 4 Temporal Bone Trauma
- 5. **Kenyan ENT Society Meeting**: Vestibular Schwannomas: An Update and Future Options

### University of Nairobi School of Medicine

Nairobi, Kenya

Otology Surgical Camp – Kenyatta National Hospital

01/2013 Grand Rounds Presentations:

- 1. Mastoidectomy: Pearls and Pitfalls
- 2. Tympanoplasty: The Science and the Art
- 3. Management of Complications of Chronic Otitis Media
- 4. Management of Lateral Skull Base CSF Leaks

# 5. **Kenyan ENT Society Meeting**: Training Tomorrow's Cranial Base Surgeon

### University of Nairobi School of Medicine

Nairobi, Kenya

# Otology Surgical Camp – Kenyatta National Hospital Grand Rounds Presentations:

- 1. Auditory Anatomy, Embryology, and Physiology
- 2. The Vestibular System Anatomy, Physiology, and Testing
- 3. Diagnosis and Management of Chronic Otitis Media
- 4. Cholesteatoma and the Art of Mastoidectomy
- 5. Temporal Bone Trauma and Associated Complications
- 6. Lesions of the Lateral Skull Base
- 7. Facial Nerve: Pathology and Management
- 8. Neuroradiology for the Hearing Specialist
- 9. **Kenyan ENT Society Meeting:** Cartilage Tympanoplasty: The Science and the Art

### **University of Nairobi School of Medicine**

Nairobi, Kenya

Otology Surgical Camp – Nanyuki Referral Hospital Grand Rounds Presentation: Research Design 101: An

Otolaryngologists Intro to Clinical Research

### University of Nairobi School of Medicine

Nairobi, Kenya

## Otology Surgical Camp – Kenyatta National Hospital Grand Rounds Presentations:

- 1. Auditory Anatomy and Physiology
  - 2. Vestibular Anatomy and Physiology
  - 3. Differential Diagnosis of the Dizzy Patient
  - 4. Complications of Otitis Media
  - 5. Tympanoplasty and Ossicular Chain Reconstruction
  - 6. Radiographic Characteristics of Temporal Bone Lesions
  - 7. Surgical Approaches in Chronic Otitis Media
  - 8. **Kenyan ENT Society Meeting**: Work Life Balance: Is that even possible?
  - 9. University of Nairobi Department of Surgery Grand Rounds: The Deaf Will Hear the Words: The Art of Cochlear Implantation

#### **University of Nairobi School of Medicine**

Nairobi, Kenya

Otology Surgical Camp – Nanyuki Referral Hospital

**Grand Rounds Presentations:** Mastoidectomy and Tympanoplasty with OCR

01/2014

10/2014

03/2015

10/2015

### University of Nairobi School of Medicine

Nairobi, Kenya

### Otology Surgical Camp - Kenyatta National Hospital

#### 03/2016 **Grand Rounds Presentations:**

- 1. Otologic Anatomy and Physiology
- 2. Clinical Evaluation of the Otological Patient
- 3. Cholesteatoma and Chronic Otitis Media
- 4. Neuroradiology for the Otologist
- 5. Otology Oral Exam
- 6. Kenyan ENT Society Meeting: Dealing with Suffering and

Complications: A Moral Crisis for Clinicians

### 7. University of Nairobi Department of Surgery Grand Rounds:

Advancing Your Career and Expanding Your Practice Through Health Disparities Research

### University of Nairobi School of Medicine

Nairobi, Kenya

### Otology Surgical Camp - Nanyuki Referral Hospital **Grand Rounds Presentations:**

- 1. Otologic Anatomy and Physiology
- 2. Diagnosis and management of chronic otitis media
- 3. Neuroradiology for the Otologist
- 4. Examination of the Dizzy Patient
- 5. Benign Pathology of the Lateral Skull Base
- 6. Research Design 101 for the Otolaryngologist

#### **University of Nairobi School of Medicine**

Nairobi, Kenya

### Otology Surgical Camp – Kenyatta National Hospital **Grand Rounds Presentations:**

### 02/2018

01/2019

## 1. Otologic Anatomy and Physiology

- 2. Diagnosis and management of chronic otitis media
- 3. Examination of the Dizzy Patient
- 4. **Kenyan ENT Society Meeting**: Disruptive Behavioral Problems in Children with Hearing Loss

#### **University of Nairobi School of Medicine**

Nairobi, Kenya

### Otology Surgical Camp – Kenyatta National Hospital **Grand Rounds Presentations:**

- 1. Otologic Anatomy and Physiology
- 2. Diagnosis and management of chronic otitis media
- 3. Otology Oral Exam
- 4. Examination of the Dizzy Patient
- 4. Kenyan ENT Society Meeting: Telemedicine: Opportunities and Challenges in Hearing Healthcare Delivery

10/2016

01/2020	University of Nairobi School of Medicine Nairobi, Kenya Otology Surgical Camp – Kenyatta National Hospital Grand Rounds Presentations:  1. Otological Anatomy and Physiology 2. Management of Chronic Ear Disease 2. Differential Diagnosis of the Dizzy Patient 3. Research Design 101 for the Otolaryngologist
10/2022	University of Nairobi School of Medicine Nairobi, Kenya Otology Surgical Camp – Nakuru Referral Hospital Neurotology Mini-Symposium:  1. Temporal Bone Anatomy, Embryology, and Genetics 2. Neuroradiology for the Otologic Surgeon 3. An Update on the Practical Management of Meniere's Disease 4. Techniques of Cartilage Use in Chronic Ear Surgery 5. An Update on Cochlear Implants and Implantable Devices
09/2023	University of Nairobi School of Medicine Nairobi, Kenya Otology Surgical Camp – Nakuru Referral Hospital Neurotology Mini-Symposium: The Art of Tympanoplasty
03/2024	University of Nairobi School of Medicine Otology Surgical Camp – Royal Eye and Ear Hospital Nairobi, Kenya
10/2024	University of Nairobi School of Medicine Otology Surgical Camp – Royal Eye and Ear Hospital Nairobi, Kenya Grand Rounds Presentations:  1. Otologic Physical Exam and Common Pathology 2. Radiology for the Otologist 3. Disease of the Middle Ear and Mastoid 4. Temporal bone tumors 5. Research 101 for the Otolaryngologist 6. Current Management of CSF otorrhea 7. Age-Related Hearing Loss: A Clinical Practice Guideline 8. The Role of Otolaryngologists in Addressing Health Disparity 4. Otologic Research Update and Challenging Cases 5. Differential Diagnosis of the Dizzy Patient

6. **Kenyan ENT Society Meeting (10/24/24)**: Update on Hearing Implantable Devices

University of Nairobi School of Medicine Otology Surgical Camp – Royal Eye and Ear Hospital

03/2025 Nairobi, Kenya

Resident lecture series: Management of the Complex Dizzy Patient

### V. HOSPITAL or CLINICAL APPOINTMENTS

**Heuser Hearing Institute** 

Otology Clinic Louisville, KY

07/2011-07/2015 Medical Director, part-time

**Norton Hospital System** 

Otolaryngology - Head and Neck Surgery

Louisville, KY

07/2012-07/2015 Attending Physician, part-time

**Kosair Children's Hospital** 

Otolaryngology - Head and Neck Surgery

Louisville, KY

07/2012-07/2015 Attending Physician, part-time

**University of Kentucky Chandler Medical Center** 

Department of Otolaryngology - Head and Neck Surgery

Lexington, KY

07/2011-present Attending Physician, full-time

**Veterans Affairs Medical Center** 

Department of Surgery

Lexington, KY

07/2011-present Attending Physician, part-time (fee-basis)

07/2011-07/2018 Chief, Division of Otolaryngology

**University of Kentucky Good Samaritan Hospital** 

Department of Otolaryngology – Head and Neck Surgery

Lexington, KY

07/2011-present Attending Physician, full-time

### VI. CONSULTING ACTIVITIES

### State/Regional

Kentucky Labor Cabinet, Kentucky Department of Workers' Claim

Frankfort, KY

2011-present Independent Evaluator for KDWC cases for hearing-related disability

### National/International

**Med El Corporation** 

Durham, NC

03/2014-present Consultant, Surgical Advisory Board Member

**Oticon Medical** 

Copenhagen, Denmark

05/2017-06/2017 Consultant, Key Opinion Leader Meeting

**Stryker Medical Education** 

Portage, MI

05/2017-12/2020 Consultant, Co-Director of Annual Stryker Neurotology Fellows

Bootcamp

01/2021- 10/2021 Consultant, Faculty of Annual Stryker Neurotology Fellows Bootcamp

**Advanced Bionics** 

Valencia, CA

02/2023 Consultant

Cochlear

Sydney, Australia

07/2024-present Consultant

## VII. TEACHING ACTIVITIES

### **University Faculty (Fellow)**

	The Ohio State University (Neurotology Fellow) Columbus, OH
07/2009-06/2010 07/2009-06/2010	Annual Temporal Bone Course [Residents] Otology/Neurology Resident Core Curriculum: Temporal Bone Trauma.
07/2009-06/2010	[Residents] Clinical Otology: The Diagnosis and Management of Ear Disease. [3 <sup>rd</sup> year Medical students].
07/2010-06/2011 07/2010-06/2011	Annual Temporal Bone Course [Residents] Clinical Otology: The Diagnosis and Management of Ear Disease.
07/2010-06/2011	[3 <sup>rd</sup> year Medical students]. Otology/Neurology Resident Core Curriculum: Surgical Approaches to the Skull Base. [Residents]
07/2010-06/2011 07/2010-06/2011	Otology/Neurology Resident Core Curriculum: Otosclerosis. [Residents] Otology/Neurology Resident Core Curriculum: Facial Nerve: Anatomy and Pathology. [Residents]
07/2011-06/2012 07/2011-06/2012	Annual Temporal Bone Course [Residents] Clinical Otology: The Diagnosis and Management of Ear Disease. [3 <sup>rd</sup> year Medical students].
	The University of Kentucky (Faculty) Lexington, KY
07/2011-06/2012	Resident Core Curriculum: Otolaryngologic Manifestations of Systemic Disease. [Residents]
07/2011-06/2012	Clinical Otology: The Diagnosis and Management of Ear Disease. [3 <sup>rd</sup> year Medical students].
07/2012-06/2013	Management of Hearing Loss and Facial Nerve Injury in the Trauma Patient. Inter-Disciplinary Trauma Conference. [Residents and Medical
07/2012-06/2013	students]. Clinical Otology: The Diagnosis and Management of Ear Disease. [3 <sup>rd</sup> year Medical students].
07/2012-06/2013	Resident Core Curriculum: Neurotology and Cranial Base Surgery: Approaches to the Skull Base. [Residents]
07/2012-06/2013	Resident Core Curriculum: Neurotology and Cranial Base Surgery: Cochlear Implantation. [Residents]
07/2012-06/2013	Resident Core Curriculum: Neurotology and Cranial Base Surgery: Lesions of the Lateral Skull Base. [Residents]
07/2012-06/2013	Resident Core Curriculum: Neurotology and Cranial Base Surgery: Neurotology and Cranial Base Surgery: The Facial Nerve: The Mother of All Cranial Nerves. [Residents]

07/2012-06/2013	Neuroanatomy/Neurophysiology Course. Evaluation of the Vestibular Patient. [1st year medical students]
07/2013-06/2014	Department of Otolaryngology Lecture Series. Research Design 101: A Dummies Guide to Clinical Research. [Residents].
07/2013-06/2014	Department of Otolaryngology Lecture Series. Research Design 102: Statistics for the Mathematically Challenged. [Residents].
07/2013-06/2014	Neuroanatomy/Neurophysiology Course. Congenital Hearing Loss. [1 <sup>st</sup> year medical students]
07/2013-06/2014	Resident Core Curriculum: Otolaryngologic Manifestations of Systemic Disease. [Residents]
07/2013-06/2014	Department of Otolaryngology Professionalism Lecture Series. Work-Life Balance: Is that even possible? [Residents].
07/2014-06/2015	Department of Neurology Resident Lecture Series. Physiology of Equilibrium and Hearing. University of Kentucky. [Neurology Residents]
07/2014-06/2015	Med 815 Introduction to Clinical Research. Advancing Your Career and Expanding Your Practice through Health Disparities Research. [1st year medical students]
07/2015-06/2016	Department of Internal Medicine Resident Lecture Series. Evaluation of Dizziness in the Primary Care Setting. [Internal Medicine Residents]
07/2015-06/2016	Med 815 Introduction to Clinical Research. Advancing Your Career and Expanding Your Practice through Health Disparities Research. [1st year medical students]
07/2016-06/2017	Med 815 Introduction to Clinical Research. Advancing Your Career and Expanding Your Practice through Health Disparities Research. [1st year medical students]
07/2016-06/2017	Department of Family and Community Medicine, Rural Healthcare Track (Hazard, KY). Resident Lecture Series. Hearing Loss Overview. [Family Medicine Residents]
07/2016-06/2017	Resident Core Curriculum: Neurotology: Malignant Lesions of the Temporal Bone. [Residents]
07/2016-06/2017	Resident Core Curriculum: Neurotology: Tumors of the Lateral Skull Base. [Residents]
07/2016-06/2017	Resident Core Curriculum: Otology: Vestibular physiology and of the dizzy patient. [Residents]
07/2016-06/2017	Resident Core Curriculum: Otology: Vestibular physiology and of the dizzy patient. [Residents]
07/2017-06/2018	Med 815 Introduction to Clinical Research. Advancing Your Career and Expanding Your Practice through Health Disparities Research. [1st year medical students]
07/2018-06/2019	Med 815 Introduction to Clinical Research. Advancing Your Career and Expanding Your Practice through Health Disparities Research. [1st year medical students]
07/2018-06/2019	Resident Core Curriculum: Otology: Evaluation of the Dizzy Patient. [Residents]
07/2018-06/2019	Resident Core Curriculum: Otology: CPA Lesions. [Residents]

07/2018-06/2019	Resident Core Curriculum: Otology: Malignant Temporal Bone Lesions.
07/2018-06/2019	[Residents] Resident Core Curriculum: Otology: Benign Temporal Bone Lesions.
07/2019-06/2020	[Residents] Med 815 Introduction to Clinical Research. Do the Right Thing! Advancing Your Career and Expanding Your Practice through Health
07/2020-06/2021	Disparities Research. [1st year medical students] Med 815 Introduction to Clinical Research. Do the Right Thing! Advancing Your Career and Expanding Your Practice through Health Disparities Research. [1st year medical students]
11/2020-03/2021	<ul> <li>Resident Core Curriculum: Otology [Residents]</li> <li>Temporal Bone Embryology, Anatomy and Physiology/Genetics</li> <li>Cochlear Physiology and Pathology</li> <li>Tympanoplasty and OCR</li> <li>Facial Nerve Disorders</li> <li>Cochlear Implantation</li> <li>Malignant Lesions of the Temporal Bone</li> </ul>
04/05/2020	<ul> <li>CPA Lesions</li> <li>Med 840 Transitions to Residency. [4<sup>th</sup> year medical student]</li> </ul>
0 <del>1</del> /03/2020	Resident as Researcher
07/2021-06/2022	Med 815 Introduction to Clinical Research. Do the Right Thing!
0772021 0072022	Advancing Your Career and Expanding Your Practice through Health
	Disparities Research. [1st year medical students]
04/05/2020	Med 840 Transitions to Residency. [4 <sup>th</sup> year medical student]
0 1/ 03/ 2020	Resident as Researcher
04/18/2022	Med 840 Transitions to Residency. [4th year medical student]
0 1/10/2022	Resident as Researcher
07/2022-06/2023	Med 815 Introduction to Clinical Research. Advancing Your Career and Expanding Your Practice through Health Disparities Research. [1st year
11/2022 02/2022	medical students]
11/2022-03/2023	Resident Core Curriculum: Otology [Residents]
	Temporal Bone Embryology, Anatomy and Physiology/Genetics
	<ul> <li>Cochlear Physiology and Pathology</li> </ul>
	<ul> <li>Tympanoplasty and OCR</li> </ul>
	<ul> <li>Facial Nerve Disorders</li> </ul>
	<ul> <li>CSF Leaks and Encephaloceles</li> </ul>
07/2023-06/2024	Med 815 Introduction to Clinical Research. Advancing Your Career and Expanding Your Practice through Health Disparities Research. [1st year medical students]
07/2024-06/2025	Med 815 Introduction to Clinical Research. Advancing Your Career and Expanding Your Practice through Health Disparities Research. [1st year medical students]
11/2024-03/2025	Resident Core Curriculum: Otology [Residents]
	<ul> <li>CSF Leaks and Encephaloceles</li> </ul>
	<ul> <li>Middle Ear Mechanics, Tympanoplasty, and OCR</li> </ul>
	<ul> <li>Facial Nerve Pathology</li> </ul>
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07/2025-06/2026 Med 815 Introduction to Clinical Research. Advancing Your Career and

Expanding Your Practice through Health Disparities Research. [1st year

medical students]

### **Professional Course/Program Faculty**

Stryker Resident	Temporal Bone	<b>Surgical Dissection</b>	Course
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Cincinnati, OH

03/2013 Co-Course Director

### Stryker ANS Annual Neurotology Fellow Bootcamp

Salt Lake City, UT

05/2018 Co-Course Director 05/2019 Co-Course Director

05/2020 Co-Course Director (Course moved to virtual format)

10/2021 Course Faculty (*Director Emeritus*)

### VIII. ADVISING ACTIVITIES

### **Student Advising**

**University of Kentucky** 

Lexington, KY

### **Undergraduate Student Mentorship**

07/2011-06/2012 **Brandon Fornwalt** 

Projects:

• Hot or Cold: Is Monothermal Caloric Testing Useful and Cost-Effective? (Published)

07/2012-06/2013 Chris Rayle

Projects:

• Rural Barriers to Early Diagnosis and Treatment of Infant Hearing Loss in Appalachia (Published)

07/2016-06/2017 Nicholas Laureano

Projects:

• Systematic Review of Disruptive Behavioral Problems Among Hearing Impaired Children (Published)

12/2021-present Olivia Taylor

Projects:

• The Appalachian STAR trial: qualitative analysis, in progress

12/2022-present **Maddie Duff** 

Projects:

 Chronic Conditions with Hearts and Ears in Appalachia Research Study (CHHEARS)

### **Medical Student Mentorship**

07/2011-06/2013 Ashleigh Long

Projects:

- The clinical utility of magnetic spectroscopy in cerebellopontine angle tumors
- The range of subjective symptoms in patients with normal pure tone audiometry (Published)
- The Effect Operating Room Noise on Auditory Processing (Published)

07/2011-06/2013 William Dougherty

Projects:

- Assessment of vestibular rehabilitation practice patterns and availability of care (Published)
- A case-series review of pediatric autoimmune inner ear disease (Published)

07/2011-06/2013 Kristin Bianchi Projects: Investigation of diagnostic challenges for children with severe hearing loss in rural Kentucky (Published) Geospatial Scan Statistical Analysis of Patterns of Pediatric Hearing Loss in Kentucky (Published) Mariel Osetinsky, PSMRF Award Recipient (Mentor) 07/2011-06/2013 **Projects:** Investigation of delay of hearing healthcare for children with cochlear implants in Appalachia (Published) 07/2012-06/2013 **Ashley Loan** Projects: • Investigation of hearing healthcare and rehabilitative services for children in Central Kentucky (Published) **David Alexander** 07/2012-06/2013 **Projects:** Physician attitudes regarding pediatric hearing loss in rural Kentucky (Published) **Bryan Hardin** 07/2012-06/2013 **Projects:** Rural Barriers to Early Diagnosis and Treatment of Infant Hearing Loss in Appalachia (Published) 07/2013-06/2014 Julia Elpers, PSMRF Award Recipient (Mentor) Projects: • Parental attitudes and experiences regarding pediatric hearing loss in rural Kentucky (Published) Bryce Noblitt, PSMRF Award Recipient (Mentor) 07/2013-06/2015 **Projects:** Analysis of cochlear implant rehabilitation barriers for rural pediatric cochlear implant recipients (Published) Physician attitudes regarding pediatric hearing loss in rural Kentucky (Published) • Promoting Early Diagnosis of Congenital Hearing Loss with Patient Navigation (Published) Stephen Chan, PSMRF Award Recipient (Mentor) 07/2014-06/2015 Projects: Hearing health and healthcare disparities in adult patients (Published) Recipient of Frederick de Beer Medical Student Research Award **Stevie Maxwell** 07/2015-06/2017 **Projects:** Assessment of long-term outcomes for glomus jugulare tumors treated with gamma knife radiation (Published) Vania Rashidi, *PSMRF Award Recipient (Mentor)* 07/2015-06/2018 **Projects:** 

loss (Published)

Assessment of disruptive behavioral problems in children with hearing

07/2015-06/2018 Taylor Shackleford, *PSMRF Award Recipient (Mentor)* Projects: Systematic review of Patient Navigation for underserved and minority populations (Published) Promoting Early Diagnosis of Congenital Hearing Loss with Patient Navigation (Published) Kristen Burke 07/2015-06/2018 **Projects:** Systematic Review of Disruptive Behavioral Problems Among Hearing Impaired Children (Published) Validation of Remote Cochlear Implantation Candidacy Evaluations Julie Johnson 07/2015-06/2018 **Projects:** Current Trends in Evaluation and Management of Acoustic Neuromas 07/2016-06/2018 Kayla Williams **Projects:** Understanding Adult Perspectives Regarding Hearing Healthcare 07/2016-06/2018 Diana Bigler, PSMRF Award Recipient (Mentor) **Projects:** Assessment of disruptive behavioral problems in children with hearing Systematic Review of Disruptive Behavioral Problems Among Hearing Impaired Children (Published) Tianshi ("Mike") Liu 07/2016-06/2018 **Projects:** Systematic review of the Effects of Cochlear Implants and adjunctive rehabilitation therapy on language perception and performance among Infants with Congenital CMV infection (Published) 07/2016-06/2017 Dasha Kenlan Projects: Assessment of an International Otology Collaboration: Educational and Patient Outcomes 07/2016-06/2017 **Erin Wolf-Horrell Projects:** The Natural History and Rehabilitative Outcomes of Hearing Loss in Congenital Cytomegalovirus: A Systematic Review (Published) 07/2016-06/2020 Whitney Powell, PSMRF Award Recipient (Mentor) **Projects:** Understanding Adult Perspectives Regarding Hearing Healthcare (Published) Outpatient Healthcare Access and Utilization for Neonatal Abstinence Syndrome Children: A Systematic Review (Published) 07/2016-06/2020 **Ashley Wicker Projects:** 

Outpatient Healthcare Access and Utilization for Neonatal Abstinence

Syndrome Children: A Systematic Review (Published)

07/2016-06/2020	Anita Shanker, PSMRF Award Recipient (Mentor)
	<ul> <li>Projects:</li> <li>Assessment of Factors Involved in Non-Adherence to Infant Hearing Diagnostic Testing (Published)</li> </ul>
07/2017-06/2020	<ul> <li>No-show rates in a Pediatric Academic Audiology Practice</li> <li>Weston Dicken, PSMRF Award Recipient (Co-Mentor)</li> </ul>
	Projects:  • Validation of Remote Cochlear Implantation Candidacy Evaluations  (Part 1: 1 and 2)
07/2018-06/2020	(Published) Christopher Hayden, PSMRF Award Recipient (Mentor) Projects:
	<ul> <li>Aberrant Facial Nerve Stimulation in Cochlear Implantation: A Systematic Review and Meta-Analysis (Published)</li> </ul>
07/2018-06/2020	Alex Hines Projects:  Negarital Abetinanae Syndrome and Infant Haaring Aggestment: A
07/2019-06/2022	<ul> <li>Neonatal Abstinence Syndrome and Infant Hearing Assessment: A         Kids' Inpatient Database (KID) Review (Published)</li> <li>Jacob Crouch, PSMRF Award Recipient (Mentor)</li> </ul>
	Projects: • Rural Disparities in Pediatric Chronic Suppurative Otitis Media
	<ul> <li>(Published)</li> <li>Impacts of the COVID-19 Pandemic on Communication and Healthcare Access for Adults with Hearing Loss (Published)</li> </ul>
07/2019-06/2022	Jack Laureano, PSMRF Award Recipient (Mentor) Projects:
	<ul> <li>Surgical Factors Associated with Cochlear Implant Wound Complications: A Systematic Review (Published)</li> </ul>
07/2019-06/2022	<ul> <li>Patient Factors Associated with Cochlear Implant Wound Complications: A Systematic Review (Published)</li> <li>Brady Ekman, PSMRF Award Recipient (Mentor)</li> </ul>
07/2017-00/2022	Projects:  • Patient Factors Associated with Cochlear Implant Wound
	Complications: A Systematic Review (Published)  • Surgical Factors Associated with Cochlear Implant Wound
	<ul> <li>Complications: A Systematic Review (Published)</li> <li>CHHIRP: A Qualitative Analysis of Parent Perceptions on a Patient Navigation Program for Newborn Hearing Diagnostic Testing, in</li> </ul>
07/2020-06/2023	progress <b>Gerek Meinhardt</b>
	<ul> <li>Projects:</li> <li>The Applications of Telemedicine for Dizziness Patients: A Systematic Review, submitted</li> </ul>
	<ul> <li>Reporting of Race and Ethnicity in Cochlear Implant Clinical Trials: A Systematic Review and Meta-Analysis (Published)</li> </ul>
07/2020-06/2023	Christine Sharrer, <i>PSMRF Award Recipient (Mentor)</i> Projects:

A Systematic Review and Meta-Analysis, in progress Reporting of Race and Ethnicity in Cochlear Implant Clinical Trials: A Systematic Review and Meta-Analysis (Published) 07/2020-06/2023 Nicole Perez, PSMRF Award Recipient (Mentor) Projects: Racial and Ethnic Disparities in Infant Hearing Healthcare in Kentucky (submitted) Reporting of Race and Ethnicity in Cochlear Implant Clinical Trials: A Systematic Review and Meta-Analysis (Published) Evan Nix, MD 05/2021-06/2022 Projects: Readability and Quality of English and Spanish Online Health Information about Cochlear Implants, accepted for publication (Published) **Abbigayle Rawls** 05/2021-06/2024 Projects: Quality and Readability of Hearing Aid-Related Websites in English & Spanish, in progress Readability and Quality of English and Spanish Online Health Information about Cochlear Implants (Published) 05/2021-06/2024 **Chase Rawls** Projects: Readability and Quality of English and Spanish Online Health Information about Cochlear Implants (Published) Readability and Quality of English and Spanish Online Health Resources Regarding Tympanoplasty with Mastoidectomy, in progress Caroline Heltsley, PSMRF Award Recipient (Mentor) 08/2021-06/2024 Projects: Physical activity and hearing loss scoping review, in progress Hearing Health Assessment in Rural Communities (HHARC): qualitative analysis, in progress Jate Bernard, PSMRF Award Recipient (Mentor) 08/2021-06/2024 • Physical activity and hearing loss scoping review, in progress **Emily Ranseen** 09/2021-06/2024 Projects: CHHIRP: A Qualitative Analysis of Parent Perceptions on a Patient Navigation Program for Newborn Hearing Diagnostic Testing, in progress 09/2021-06/2024 **Margaux Danby** 

Projects:

10/2021-06/2022

progress

**Haseeb Jafary** 

The Relationship of Hemoglobin A1c and Hearing Loss in Diabetics:

• CHHIRP: A Qualitative Analysis of Parent Perceptions on a Patient Navigation Program for Newborn Hearing Diagnostic Testing, in

	Projects:
	• Hearing Rehabilitation and the Progression of Cognitive Decline in the Elderly, in progress
12/2021-06/2024	Alexandra Nwokedi-Ibewuike
	Projects:
	• Social Determinants of Health in Cochlear Implantation: A Systematic Review
01/2022-06/2024	Mary Katherine Oberman, <i>PSMRF Award Recipient (Mentor)</i> Projects:
02/2022-06/2024	<ul> <li>The Appalachian STAR trial: qualitative analysis, in progress</li> <li>Olivia Henderson</li> <li>Projects:</li> </ul>
02/2022-06/2024	• The Appalachian STAR trial: qualitative analysis, in progress <b>Tyler Howard</b>
	<ul> <li>Projects:</li> <li>Readability and Quality of English and Spanish Online Health Resources Regarding Noise Induced Hearing Loss, in progress</li> </ul>
09/2022-06/2024	Meena Pattabiraman
	Projects:  • Hearing Health Assessment in Rural Communities (HHARC): qualitative analysis, in progress
02/2022-06/2023	Amina Anwar
	<ul> <li>Projects:</li> <li>Rural Evaluation of Activity Correlation with Hearing (REACH)</li> <li>Study, in progress</li> </ul>
05/2023-present	Lauren Masden, PSMRF Award Recipient (Mentor) Projects:
	Readability of Internet Health Information in Otolaryngology
	Otolaryngology Resident Mentorship
07/2011-06/2012	Christopher Bingcang, MD Projects:
	<ul> <li>Hot or Cold: Is Monothermal Caloric Testing Useful and Cost- Effective? (Published)</li> </ul>
07/2011-06/2014	Joshua Dixon, MD Projects:
07/2012 07/2015	The effect of middle ear effusion on cochlear implant function (Published)  Company Filthers and MD.
07/2012-06/2015	German Fikhman, MD Projects:  Property of law frequency bearing in each lear implementation
07/2012-06/2013	<ul> <li>Preservation of low-frequency hearing in cochlear implantation</li> <li>Justin Way, MD</li> <li>Projects:</li> </ul>
	<ul> <li>Investigation of the effect of operating room noise on auditory processing (Published)</li> </ul>

07/2012-06/2013 Deann Roberts, MD Projects: The clinical utility and cost-effectiveness of pre-operative imaging studies in cochlear implantation (Published) 07/2014-06/2017 Brian Hixon, MD Projects: Assessment of rural adult hearing healthcare disparities (Published) Systematic review of barriers to hearing healthcare (Published) 07/2014-06/2017 Caitlin Fiorillo, MD **Projects:** Assessing and addressing disruptive behavioral problems in children with hearing loss (Published) 07/2014-06/2017 Kristan Alfonso, MD Projects: Systematic Review of Disruptive Behavioral Problems Among Hearing Impaired Children (Published) 07/2014-06/2017 Mark Ringstrom, MD Projects: • Travel distance: Impact on stage of presentation and treatment choices in head and neck cancer (Published) 07/2014-06/2017 Andrew Ebelhar, MD Projects: Preoperative Assessment of Round Window Anatomy for Cochlear Implantation with Intention of Hearing Preservation via Round Window Insertion Kyle Fletcher, MD 07/2015-06/2019 Projects: • Validation of Remote Cochlear Implantation Candidacy Evaluations (Published) • Systematic review of the Effects of Cochlear Implants and adjunctive rehabilitation therapy on language perception and performance among Infants with Congenital CMV infection (Published) Mitch Dobberpuhl, MD 07/2015-06/2017 Projects: Current Trends in Evaluation and Management of Acoustic Neuromas Treatment Outcomes for Single Modality Management of Glomus Jugulare Tumors with Stereotactic Radiosurgery (Published) 07/2016-06/2017 Mike Kaufman, MD **Projects:** • Systematic review of Patient Navigation for underserved and minority populations (Published) Nicole Colgrove, MD 07/2017-06/2019 Projects: Assessment of Physician Burnout in Otolaryngology Residents 07/2017-06/2020 Adam Van Horn, MD

**Projects:** 

- Neonatal abstinence syndrome (NAS) and Healthcare Utilization: A Systematic Review (Published)
- The Effect of NAS on Early Pediatric Hearing Loss Diagnosis and Intervention (Published)

07/2017-06/2020

### Ryan Neff, MD

Projects:

 Prevalence of Long-term Opioid Usage follow Otologic Surgery (Published)

07/2020-06/2024

### William Ruffin, DO

Projects:

 Rural Disparities in Pediatric Chronic Suppurative Otitis Media (Published)

07/2020-06/2023

### Skylar Trott, MD

Projects:

• The Use of Ultrasound in Evaluation of Pediatric Neck Abscesses (Published)

05/2021-06/2025

### David Adkins, MD

Projects:

- Quality and Readability of Hearing Aid-Related Websites in English & Spanish (Published)
- Quality and Readability of Tympanoplasty and Mastoidectomy Website Information in English & Spanish, in progress
- Quality and Readability of Meniere's Disease Information in English & Spanish, in progress
- Quality and Readability of Chronic Cough Website Information in English & Spanish, in progress
- Physical Activity and Hearing Loss: A Scoping Review, in progress
- Rural Evaluation of Activity Correlation with Hearing (REACH) Study, in progress
- Sociodemographic Factors influencing Pandemic-Era EHDI Utilization and Access. JEHDI. (Published)
- Tools for Telehealth: A Correlational Analysis of App-Based Hearing Testing. Laryngoscope Investigative Otolaryngology. 2022. (Published)
- Quality and Readability of Websites regarding Noise-induced Hearing Loss. (in preparation)
- Factor Associated with No-Show Rates in a Pediatric Audiology Clinic. (Published)
- Association of Diabetes Mellitus and Hearing Loss: A Systematic Review. *(in preparation)*
- Social Determinants of Health in Hearing Healthcare: A Scoping Review. *(in preparation)*
- The Role of Telemedicine for Evaluation and Management of Dizzy Patients: A Systematic Review. Otology & Neurotology. (Published)

05/2021-06/2025

**Brian Kinealy, MD** 

### Projects:

- Quality and Readability of Hearing Aid-Related Websites in English & Spanish (Published)
- Quality and Readability of Tympanoplasty and Mastoidectomy Website Information in English & Spanish, in progress
- Quality and Readability of Meniere's Disease Information in English
   & Spanish, in progress
- Quality and Readability of Cochlear Implant-Related Websites in English & Spanish (published)
- Quality and Readability of Websites regarding Noise-induced Hearing Loss. (in preparation)

### University of Nairobi

Nairobi, Kenya

### Otolaryngology Resident Mentorship

07/2015-06/2017

#### Neville Okwiri

**Projects:** 

• Factors Involved in Access and Utilization of Adult Hearing Healthcare: A Systematic Review (Published)

07/2015-06/2017

### Maria Muthoka

Projects:

• The Natural History and Rehabilitative Outcomes of Hearing Loss in Congenital Cytomegalovirus: A Systematic Review (Published)

### **Graduate Student Mentorship**

07/2021-2022

**Marissa Schuh (PhD candidate)** – Dissertation committee Projects:

• Impact of hearing loss on physical activity in older adults

05/2022-present

### Hannah Speaks (PhD candidate)

Projects:

- Hearing Rehabilitation and the Progression of Cognitive Decline in the Elderly, in progress
- Hearing Health Assessment in Rural Communities (HHARC): quantitative analysis, in progress

06/2022-06/2023

#### **Amanda Davis (AuD candidate)**

**Projects:** 

- Cochlear Implant Surgical Disparities in Kentucky, in progress
- Social Determinants of Health in Cochlear Implantation: A Systematic Review, in progress

### **Faculty Mentorship**

06/2022-present

Ian Boggero, PhD (K23 recipient), University of Kentucky

### **Thesis & Dissertation**

03/2021 Doctoral Thesis External Examiner, Megan Barr, PhD candidate,

University of Newcastle (Australia), "An investigation of services for children with hearing loss and the National Disability Insurance Scheme

(NDIS)"

### Referee for Academic Appointment, Promotion or Tenure

10/2016	Dhilin Wastasta DhD Hairranita of Vanturlar
10/2016 10/2017	Philip Westgate, PhD, University of Kentucky Esther Vivas, MD, Emory University
10/2017 05/2018	Brett Comer, MD, University of Kentucky
	Edward Dodson, MD, The Ohio State University
08/2018	John Ayugi, MBChB, MMED (ENT Surg), University of Nairobi
02/2020	Meredith Holcomb, AuD, University of Miami
05/2020	Justin Golub, MD, Columbia University
12/2020	Sam Spear, MD, F. Edward Hebert School of Medicine at the Uniformed
0.4/2021	Services University of the Health Sciences
04/2021	Carrie Nieman, MD, MPH, Johns Hopkins University
06/2021	Beth McNulty, MD, University of Kentucky
06/2021	Brian D'Anza, MD, Case Western Reserve University School of Medicine
01/2022	Esther Vivas, MD, Emory University
07/2022	Liza Creel, MPH, PhD, University of Colorado
08/2022	Cameron Wick, MD, Washington University School of Medicine
10/2022	Heather Weinrich, MD, University of Illinois Chicago
10/2022	Michael Harris, MD, University of Wisconsin
12/2022	Jacob Hunter, MD, Thomas Jefferson University
02/2023	Nicholas Thompson, MD, University of North Carolina – Chapel Hill
07/2023	Amanda Davis, AuD, University of North Carolina – Chapel Hill
07/2023	Ivette Cejas, PhD, University of Miami
08/2023	Robert Yawn, MD, University of Tennessee
08/2023	Julia Toman, MD, University of South Florida
08/2023	Yuri Agrawal, MD, MPH, University of Colorado
11/2023	Kevin Potts, MD, University of Louisville
12/2023	Theodore McRackan, MD, MSR, Medical University of South Carolina
02/2024	Erika Walsh, MD, University of Alabama at Birmingham
04/2024	Flavius Raslau, MD, University of Kentucky (Radiology)
04/2024	Sandra Prentiss, PhD, University of Miami
05/2024	Justin Golub, MD, MS, Columbia University
05/2024	Jerry Lin, MD, University of Louisville
05/2024	Chrisandra Sanchez, AuD, University of Miami
08/2024	Farhan Mirza, MD, University of Kentucky (Neurosurgery)
10/2024	George Wanna, MD, Icahn School of Medicine at Mt. Sinai
11/2024	Richard Roberts, PhD, Vanderbilt University
12/2024	Sarah Bowe, MD, F. Edward Hebert School of Medicine at the Uniformed
	Services University of the Health Sciences

04/2025	Irina Castellano, PhD, Indiana University
04/2025	Mark Severtson, MD, University of Louisville
06/2025	Sharoon Qaiser, MD, University of Kentucky (Neurology)
06/2025	A. Cataline Velez-Ortega, PhD, University of Kentucky
06/2025	Robert Hong, MD, Wayne State University

### IX. ADMINISTRATIVE ACTIVITIES & UNIVERSITY SERVICE

### **University**

### **University of Kentucky**

Lexington, KY

### **Administration**

05/2019-present Member, Press Committee

### **Education & Research**

07/2016-07/2019 Regular Member, Medical Institutional Review Board

07/2018-present Founding Affiliate, University of Kentucky Center for Health Equity

Transformation (CHET)

### **College**

### **University of Kentucky College of Medicine**

Lexington, KY

## **Administration & Clinical Operations**

07/2018-07/2020	Member, International Committee
03/2019-03/2022	Member, Conflict of Interest Committee
06/2021-06/2024	Member, Promotion and Tenure Committee

	Education & Research
01/2014-06/2024	Member, University of Kentucky CCTS TL1 Program Grant Review
	Committee
01/2015-06/2024	Member, University of Kentucky CCTS KL2 Program Grant Review
	Committee
07/2017-06/2024	Member, Taskforce on Mentoring in the College of Medicine
01/2018-06/2024	Member, University of Kentucky Clinical Research Support Office
	(CRSO)/CTMS Implementation Steering Committee
04/0040 00/0004	3.6 1 77.1 1 077 1 0 11 0 1 1 0 1 1 1

01/2018-08/2021 Member, University of Kentucky College of Medicine Strategic Planning,

Community Engagement Pillar Committee

01/2020-06/2024 Associate Director for Scholar Recruitment and Evaluation, University of

Kentucky CCTS TL1 Program

08/2021-06/2025 Chair, University of Kentucky College of Medicine Strategic Planning,

Community Engagement Pillar Committee

01/2023-06/2024	Co-Director, University of Kentucky CCTS, Dissemination and
	Implementation Core
01/2023-06/2024	Member, University of Kentucky College of Medicine Taskforce for
	Clinician Scientist Compensation
01/2023-06/2024	Co-Director, University of Kentucky CCTS, KL2 Career Development
	Core

### **Medical Center**

### **University of Kentucky Medical Center**

Lexington, KY

### **Administration & Clinical Operations**

03/2016-03/2017	Member, Associate Chief Medical Officer Search Committee
07/2017-07/2018	Member, University of Kentucky BEST Program Care Access & Practice
	Efficiency Implementation Team

### **Education & Research**

02/2012-01/2020 Faculty, Interdisciplinary Facial Trauma Conference

### IX. ADMINISTRATIVE ACTIVITIES & UNIVERSITY SERVICE

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### **Department**

University of Kentucky Medical Center	
Department of Otolaryngology - Head and Neck Surgery	7

Lexington, KY

07/2017-11/2023 Vice Chair for Research

**Education & Research** 

07/2012-06/2015 Course Director. Resident Core Curriculum: Otolaryngologic

Manifestations of Systemic Disease.

07/2012-06/2017 Course Director. Resident Core Curriculum: Oral Board Preparation.

07/2013-06/2018 Course Director. Resident Core Curriculum: Neurotology and Cranial

Base Surgery.

07/2013-07/2018 Director, Audiology and Otology Conference

07/2014-11/2023 Chair, Residency Research Committee

07/2015-06/2018 Course Director, Department Grand Rounds

O5/2015 Chair and Organizer, University of Kentucky Department of

Otolaryngology Inaugural Bluegrass Research Symposium: Annual event highlighting resident/department research and hosting a visiting professor

nighting resident/department research and nosting a visiting professo

(Jastin Antisdel, MD)

O5/2016 Chair and Organizer, University of Kentucky Department of

Otolaryngology 2nd Bluegrass Research Symposium: Annual event highlighting resident/department research and hosting a visiting professor

(Meredith Adams, MD)

O5/2017 Chair and Organizer, University of Kentucky Department of

Otolaryngology 3rd Bluegrass Research Symposium: Annual event

highlighting resident/department research and hosting a visiting professor

(Nicholas Smith, MD)

05/2018 Chair and Organizer, University of Kentucky Department of

Otolaryngology 4th Bluegrass Research Symposium: Annual event

highlighting resident/department research and hosting a visiting professor

(Eben Rosenthal, MD)

O5/2019 Chair and Organizer, University of Kentucky Department of

Otolaryngology 5th Bluegrass Research Symposium: Annual event

highlighting resident/department research and hosting a visiting professor

(Kevin Shumrick, MD)

02/2020 Chair and Organizer, University of Kentucky Department of

Otolaryngology 6th Bluegrass Research Symposium: Annual event

highlighting resident/department research and hosting a visiting professor

(Milan Amin, MD)

12/2020-03/2021 Course Director. Resident Core Curriculum: Otology, Neurotology and

Cranial Base Surgery.

12/2022-03/2023 Course Co-Director. Resident Core Curriculum: Otology, Neurotology and Cranial Base Surgery. Chair and Organizer, University of Kentucky Department of 02/2023 Otolaryngology 7th Bluegrass Research Symposium: Annual event highlighting resident/department research and hosting a visiting professor (Edward McCoul, MD, MPH) 02/2024 Chair and Organizer, University of Kentucky Department of Otolaryngology 8th Bluegrass Research Symposium: Annual event highlighting resident/department research and hosting a visiting professor. (Aaron Moberly, MD) Chair and Organizer, University of Kentucky Department of 01/2025 Otolaryngology 9th Bluegrass Research Symposium: Annual event highlighting resident/department research and hosting a visiting professor.

(Brianne Roby, MD)

### X. SPECIAL ASSIGNMENTS

Chairperson, University of Kentucky CCTS Non-Indemnification Non-Cancer Clinical Study Review Committee 07/2018-01/2025

## XI. HONORS & AWARDS

05/2000	<b>MS-I Academic Achievement Award</b> , Given to the first-year medical student with the highest GPA, Marshall University School of Medicine
05/2001	MS-II Academic Achievement Award, Given to the second-year medical student with the highest GPA, Marshall University School of Medicine
05/2001	Joan C. Edwards Scholarship, Financial award given for academic excellence in medical school, Marshall University School of Medicine
05/2002	<b>Alpha Omega Alpha</b> , Beta Chapter of West Virginia, Marshall University School of Medicine
06/2005	University of Kentucky Temporal Bone Lab Resident Award Given for excellence in resident temporal bone dissection, University of Kentucky, Division of Otolaryngology
05/2006	Resident Research Award, Kentucky Society of Otolaryngology
06/2007	University of Kentucky Temporal Bone Lab Resident Award, Given for excellence in resident temporal bone dissection, University of Kentucky, Division of Otolaryngology
05/2007	University of Kentucky Department of Surgery Teaching Award, Given by medical students to residents for excellence in teaching, University of Kentucky, Department of Surgery
01/2008	The G. Slaughter Fitz-Hugh First Place Resident Research Award, The Triological Society
05/2008	Resident Research Award, Kentucky Society of Otolaryngology
05/2011	American Neurotology Society Fellow Research Award, American Neurotology Society
04/2013	Outstanding Poster Award (Cross-cultural Focus), Early Hearing Detection and Intervention Annual Meeting
04/2013	Scholars Abstract Award, Translational Science 2013
10/2014	Songs for Sound Success Award, Songs for Sound
05/2014	Phi Kappa Phi, University of Kentucky Chapter

01/2016-present	Top Doctor, Castle Connolly Medical LTD
06/2016	Kentucky Colonel, Commonwealth of Kentucky Admitted to the honorable order of Kentucky Colonels by Governor Matthew Bevin
03/2017	Phi Kappa Phi Dissertation Fellowship Award, Phi Kappa Phi
04/2017	With Distinction Thesis Award for Clinical Research, The Triological Society
01/2017	Cochrane Conclave Scholarship Award, American Academy of Otolaryngology – Head and Neck Surgery Foundation
07/2017	Wethington Award, University of Kentucky Research award provided for distinguished faculty with at least 30% extramurally funded effort
11/2017	Cochrane Scholarship Award, American Neurotology Society
04/2018	University of Kentucky Department of Surgery Teaching Award, Given by medical students to faculty for excellence in teaching, University of Kentucky, Department of Surgery
07/2018	Wethington Award, University of Kentucky Research award provided for distinguished faculty with at least 30% extramurally funded effort
07/2019	Wethington Award, University of Kentucky Research award provided for distinguished faculty with at least 30% extramurally funded effort
07/2020	Wethington Award, University of Kentucky Research award provided for distinguished faculty with at least 30% extramurally funded effort
06/2021	Wethington Award, University of Kentucky Research award provided for distinguished faculty with at least 30% extramurally funded effort
06/2021	University of Kentucky Department of Otolaryngology Faculty Teaching Award Given to faculty for excellence in teaching, University of Kentucky, Department of Otolaryngology
08/2022	Wethington Award, University of Kentucky

Research award provided for distinguished faculty with at least 30% extramurally funded effort 06/2023 **University of Kentucky Department of Otolaryngology Faculty Teaching Award** Given to faculty by residents for excellence in teaching 08/2023 Wethington Award, University of Kentucky Research award provided for distinguished faculty with at least 30% extramurally funded effort 08/2024 Wethington Award, University of Kentucky Research award provided for distinguished faculty with at least 30% extramurally funded effort 01/2025 **Presidential Early Career Award for Scientists and Engineers** (PECASE), The White House (Biden Administration) The highest honor bestowed by the U.S. government on outstanding scientists and engineers early in their careers. 08/2025 Wethington Award, University of Kentucky Research award provided for distinguished faculty with at least 30% extramurally funded effort

### XII. PROFESSIONAL ACTIVITIES, PUBLIC SERVICE & PROFESSIONAL DEVELOPMENT

### **Memberships**

07/2004-present	Kentucky Society of Otolaryngology, Member
07/2004-present	American Academy of Otolaryngology-Head and Neck Surgery, Member
07/2012-present	American Neurotology Society, Fellow
07/2013-present	Society of University Otolaryngologists, Member
03/2015-present	North American Skull Base Society, Member
04/2015-present	American Cochlear Implant Alliance, Member & Organizational Member
10/2015-present	American College of Surgeons, Fellow
05/2017-present	The Triological Society, Fellow
10/2019-present	American Otological Society, Member
03/2022-present	American Auditory Society, Member

### **Positions Held**

### **Local**

**Lexington Hearing and Speech Center** 

Member, Board of Directors 07/2011-07/2016

**Providence Community Church** 

03/2015-present Elder

### State/Regional

### **Kentucky Society of Otolaryngology**

05/2011-05/2012	President-elect
05/2012-05/2013	President
07/2016-07/2019	Socioeconomic and Grassroots Efforts Representative (KY), AAO-HNS Board of Governors

	Kentucky Cabinet for Health and Family Services
07/2014-06/2020	Member, Office for Children with Special Healthcare Needs, Medical
	Advisory Committee
07/2015-06/2023	Member, Kentucky Early Hearing Detection and Intervention Program
	Advisory Board

### Kentucky Board of Speech Language Pathology and Audiology

Frankfort, KY

**Advisory Board Member** 03/2016-03/2019

### National/International

07/2015-07/2019	American Neurotology Society Council Member, Young ANS Member Group
07/2017-07/2020	Member, Scientific Program Committee Member
07/2019-07/2022	Member, Education Committee Member
07/2019-07/2022 05/2022-05/2025	Chair, Socio-Economic Committee Member, Diversity, Equity, and Inclusion Committee
03/2022-03/2023	Wember, Diversity, Equity, and metasion Committee
	American Otological Society
04/2021-04/2022	Nominating Committee, Committee Member
05/2022	COSM AOS Meeting Poster Judging Committee
08/2022-07/2023	Program Advisory Committee
08/2024-07/2025	Program Advisory Committee
	American Cochlear Implant Alliance
04/2015-present	University of Kentucky Cochlear Implant Program Director, ACI Alliance
_	Organizational Members
07/2016-present	Kentucky State Champion, ACI Alliance
03/2017-03/2018	Member, Abstract Review Committee
03/2020-07/2023	Member, CI Conference Scientific Program Committee
05/2020-05/2021	Co-Chair, CI2022 Conference Scientific Program Committee
06/2023-present	Member, Board of Directors
07/2024-present	Board of Directors, Executive Council, Treasurer
	American Academy of Otolaryngology – Head and Neck Surgery
07/2007-07/2009	Member, Hearing Aid Subcommittee
07/2007-07/2012	Member, Credentials and Membership Committee
07/2014-07/2016	Consultant, Humanitarian Efforts Committee
07/2016-07/2018	Member, International Otolaryngology Committee
07/2016-07/2022	Member, Hearing Committee Member
07/2016-07/2019	Socioeconomic and Grassroots Efforts Representative (KY), AAO-HNS
	Board of Governors
03/2017-present	Member, Otology CORE Grant Review Study Section
03/2020-present	Member, Telemedicine Committee
09/2024-10/2025	Coordinator-elect of Research and Quality
10/2025-present	Coordinator of Research and Quality
	The Triological Society
07/2017-present	Member, Systematic Review Committee
07/2018-07/2024	Member, Triological Best Practice Committee
07/2024-present	Member, Research Committee
	American Board of Otolaryngology – Head and Neck Surgery
06/2023-06/2026	Task Force Writer for New Items

# XII. PROFESSIONAL ACTIVITIES, PUBLIC SERVICE & PROFESSIONAL DEVELOPMENT - continued

#### **Advisory Groups**

	American Academy of Otolaryngology – Head and Neck Surgery
	Foundation
07/2018-02/2020	Member, Clinical Practice Guidelines Committee (Meniere's Disease)
09/2022-12/2023	Assistant Chair, Clinical Practice Guidelines Committee (Age-Related
	Hearing Loss)

#### **Review Panels**

	Centers for Disease Control
04/2018-05/2018	Grant Review Panelist (National Center on Birth Defects and
	Developmental Disabilities)
04/2019-05/2019	Grant Review Panelist (National Center on Birth Defects and
	Developmental Disabilities)

#### **Veterans Affairs Scientific Merit Review Board**

08/2023 Grant Review Panelist (HSR1)

### **Editorial Boards**

07/2019-present	Editorial board member, Otology & Neurotology (Wolters Kluwer)
01/2019-present	Assistant Editor, Otology & Neurotology (Wolters Kluwer)
02/2022-present	Associate Editor, Laryngoscope Investigative Otolaryngology (Wiley)

## **Journal Peer-Reviewing**

07/2008-present	Otolaryngology – Head and Neck Surgery (Sage)
07/2010-present	Clinical Anatomy (Wiley)
07/2012-present	Laryngoscope (Wiley)
07/2013-present	Otology & Neurotology (Wolters Kluwer)
01/2013-present	American Journal of Emergency Medicine (Elsevier)
01/2014-present	Annals of Otology, Rhinology, and Laryngology (Sage)
01/2015-present	Ear and Hearing (LWW)
01/2015-present	American Journal of Public Health (APHA)

#### **Media Contributions**

#### **BBC Radio**

05/2013 Radio Interview: "Noise in the Operating Room."

11/2013	Reuters Health News  "Rural children face delays in diagnosis of congenital hearing loss." <a href="http://www.thedoctorschannel.com/view/rural-children-face-delays-in-diagnosis-of-congenital-hearing-loss/">http://www.thedoctorschannel.com/view/rural-children-face-delays-in-diagnosis-of-congenital-hearing-loss/</a>
11/2013	Eastern Kentucky University Morning Edition, Radio Show: "Prescribing Patterns for Otitis Media in Children."
11/2013	American College of Surgeons Press Release: "Too Much Background Noise in the Operating Room Can Impair Communication Among Surgical Team Members." <a href="http://www.eurekalert.org/pub_releases/2013-05/acos-bni051013.php">http://www.eurekalert.org/pub_releases/2013-05/acos-bni051013.php</a>
04/2014	Lane Report  "Ear, nose, and throat doctor at UK aims to reduce state's high rate of hearing loss among children" <a <a="" a="" at="" chair="" endowed="" for="" foundation="" health="" healthy="" href="https://www.lanereport.com/111296/2019/03/foundation-for-a-healthy-kentucky-names-new-endowed-chair-for-rural-health-policy-at-uk/" kentucky="" names="" new="" policy="" rural="" uk."="">https://www.lanereport.com/111296/2019/03/foundation-for-a-healthy-kentucky-names-new-endowed-chair-for-rural-health-policy-at-uk/</a>
04/2014	University of Kentucky UKnow News: "UK Otolaryngologist Works to Address Rural Disparities of Pediatric Hearing Loss." <a href="http://uknow.uky.edu/content/uk-otolaryngologist-works-address-rural-">http://uknow.uky.edu/content/uk-otolaryngologist-works-address-rural-</a>
02/2015	disparities-pediatric-hearing-loss UKnow News: "Interdisciplinary Study of Behavioral Problems in Children with Hearing Loss Gains CCTS Funding".  http://uknow.uky.edu/content/interdisciplinary-study-behavioral-
09/2015	problems-children-hearing-loss-gains-ccts-funding "KL2 Program Fosters Collaborative Research on Hearing Loss, Behavioral Disorders in Appalachia"
11/2015	http://reveal.uky.edu/bush_studts  "Music to their Ears: Musicians Join UK Patients and Faculty to Raise Awareness for Pediatric Cochlear Implant Program"  http://uknow.uky.edu/content/music-their-ears-musicians-join-uk-patients-
11/2015	and-faculty-raise-awareness-pediatric-cochlear-i UK OnCall Magazine, Issue 6: "UK physician's patient navigator program ensures follow-up hearing tests for infants"

07/2016	"UK Surgeon-Researcher Works to Extend Cochlear Implant Program to
	Appalachia."
	http://uknow.uky.edu/content/uk-surgeon-researcher-works-extend-
	cochlear-implant-program-appalachia
10/2016	UK Healthcare Blog: "Dr. Matthew Bush: Giving the Gift of Hearing,
	Here and Around the World"
	http://ukhealthcare.net/blog/making-the-rounds-with-dr-matthew-bush/
10/2016	UK Healthcare Blog: "Songs for Sound event benefits UK Cochlear
	Implant Program"
	http://ukhealthcare.net/blog/songs-for-sound-event-cochlear-implant/
04/2017	UKnow News: "Bush Awarded Phi Kappa Phi Dissertation Fellowship"
	https://uknow.uky.edu/uk-healthcare/bush-awarded-phi-kappa-phi-
	<u>dissertation-fellowship</u>
07/2019	UKnow News: "\$3.2 Million Grant Helps Families Access Diagnostic
	Hearing Tests for Infants."
	http://uknow.uky.edu/research/32-million-grant-helps-families-access-
	<u>diagnostic-hearing-tests-</u>
	infants?j=144973&sfmc_sub=122680030&l=19069_HTML&u=4343423
	<u>∣=10966798&amp;jb=0</u>
07/2019	UK CCTS News: "\$3.2 Million Grant Helps Families Access Diagnostic
	Hearing Tests for Infants."
	https://www.ccts.uky.edu/news/32-million-grant-helps-families-access-
	diagnostic-hearing-tests-infants
04/2021	The Loop: "TRIPPPLe: 'An Alliance of Alliances' to Improve Health
	Care Practice, Populations, and Policy"
	https://theloop.ukhc.org/Interact/Pages/Content/Document.aspx?id=5844
08/2021	WUKY Radio Broadcast: Improving Access to and Delivery of Hearing
	Healthcare
08/2023	Faculty Spotlight Video
	https://youtu.be/-gLVmwTmmQU
02/2025	UK researcher working to improve access for hearing care honored with
	2025 presidential award.
	https://uknow.uky.edu/research/uk-researcher-working-improve-access-
	hearing-care-honored-2025-presidential-
	award?j=812386&sfmc_sub=302671727&l=7849_HTML&u=33864124&
	mid=10966798&jb=6004
	ENTtoday
06/2016	"Call of Duty: Personal, Professional Merits of Humanitarian Work."
	http://www.enttoday.org/article/call-duty-personal-professional-merits-
	humanitarian-work/?elq_mid=10215&elq_cid=3437612
05/2021	"Challenges of Getting Otology Care in Socioeconomically Impacted
	Areas." https://www.enttoday.org/article/challenges-of-getting-otology-
	care-in-socioeconomically-impacted-areas/

**KY Forward** "Chandler Medical Center Surgeon Matthew Bush Named Foundation for 03/2019 a Healthy KY Endowed Chair." https://www.kyforward.com/chandler-medical-center-surgeon-matthewbush-named-foundation-for-a-healthy-ky-endowed-chair/ **Spectrum News 1** 08/2019 "\$3.2 Million Grant Helps Families Access Diagnostic Hearing Tests for Infants." https://www.ccts.uky.edu/news/32-million-grant-helps-families-accessdiagnostic-hearing-tests-infants **American Neurotology Society Diversity and Inclusion Newsletter** "Health Equity in Neurotology: Where Do We Begin?" 04/2021 https://ans.memberclicks.net/assets/Spring%202021%20ANS%20DI%20 Newsletter.pdf All Ears at Child's Voice: A Hearing Loss Podcast "Healthcare Disparities for Children with Hearing Loss." 08/2021 https://childsvoice.org/a-hearing-loss-podcast-episode-35-notes-andtranscript/ "Doc Talk" by MedAudPro Cochlear Implant Podcast 10/2022 "Addressing Disparities in Cochlear Implant Candidacy" https://anchor.fm/medaudpro/episodes/12---Matt-Bush--MD--Cochlear-Implants-Series--available-but-not-accessible--talking-health-disparity-access--and-fixing-problems-together-e1p3r1v empowEar Audiology 12/2022 "Health Disparities in Hearing Health" https://podcasts.apple.com/us/podcast/empowearaudiology/id1530082864?i=1000588479305 **UK College of Medicine (About the College)** 01/2023 "Why Faculty Love Working at the University of Kentucky College of Medicine" https://medicine.uky.edu/about-college https://www.youtube.com/watch?v=vefTygr095k **UK College of Medicine** "Dr. Matthew Bush named chair of otolaryngology – head and neck 01/2023 surgery" https://medicine.uky.edu/news/dr-matthew-bush-named-chairotolaryngology-head-2023-11-03t16-40-35

#### Sirius XM, Doctor Radio Channel

The Otolaryngology Show

11/20/2024 Live Guest: Age-Related Hearing Loss

#### **American Cochlear Implant Alliance**

02/2025 Presidential Early Career Award for Scientists and Engineers Given to Dr.

Matthew Bush.

https://www.acialliance.org/news/691309/Presidential-Early-Career-Award-for-Scientists-and-Engineers-Given-to-Dr.-Matthew-Bush.htm

#### The White House

01/2025 President Biden Honors Nearly 400 Federally Funded Early-Career

Scientists. <a href="https://bidenwhitehouse.archives.gov/ostp/news-">https://bidenwhitehouse.archives.gov/ostp/news-</a>

updates/2025/01/14/president-biden-honors-nearly-400-federally-funded-

early-career-scientists/

#### American Academy of Otolaryngology - Head and Neck Surgery

**Foundation** 

05/2025 Voices of Otolaryngology: Hearing Every Child: Rural Healthcare

Innovation. https://entnet.libsyn.com/hearing-every-child-rural-healthcare-

innovation

#### **Professional Development**

	American Academy of Audiology
02/2013	eAudiology session: "Neuroradiology and Related Neuroanatomy for the
	Audiologist." 1 hour CEU credit
04/2013	eAudiology session: "Hearing Preservation in Cochlear Implantation." 1
	hour CEU credit
02/2015	eAudiology session: "Bridging the Gaps: Assessment of Rural Pediatric
	Hearing Health Disparities." 1 hour CEU credit
	Audiology Online
11/2022	"Pragmatic Approaches to Overcoming Hearing Healthcare Disparities." 1
	hour CEU credit. https://www.audiologyonline.com/audiology-
	ceus/course/pragmatic-approaches-to-overcoming-hearing-38133
02/2022	"An Overview of Hearing Healthcare Disparities." 1 hour CEU credit.
	https://www.audiologyonline.com/audiology-ceus/course/overview-
	hearing-healthcare-disparities-38328

# XIII. INVITED SPEAKING ENGAGEMENTS

<u>Local</u>	
<u>——</u>	University of Louisville, Division of Audiology
02/2012	Louisville, KY <b>Grand Rounds Presentations:</b> Neuroradiology and Clinical Implications for the Audiologist.
03/2012	Hearing Loss Association of America, Kentucky Chapter (Lexington) Lexington, KY HLAA Monthly Meeting: "Breaking the Silence: An Overview of Cochlear Implantation."
05/2013	University of Kentucky, Department of Pediatrics Lexington, KY Contemporary Pediatrics Conference: "Pediatrician's Guide to Healthy Ears."
10/2013	University of Kentucky, Department of Otolaryngology – Head and Neck Surgery Lexington, KY University of Kentucky Department of Otolaryngology 25 <sup>th</sup> Anniversary Alumni Symposium: "An Expanding Gap: Addressing Rural Hearing Healthcare Disparities and Delays."
11/2013	University of Kentucky, Department of Family and Community Medicine Lexington, KY Family Medicine Review: "An Update on Infant Hearing Loss and Diagnostic Testing."
05/2014	Hearing Loss Association of America, Kentucky Chapter (Lexington) Lexington, KY HLAA Monthly Meeting: "Why Can't I Hear? An Overview of Hearing Loss Causes."
05/2014	University of Kentucky, Department of Family and Community Medicine Lexington, KY Family Medicine Review: "An Update on Infant Hearing Loss and Diagnostic Testing."
04/2015	Lexington Hearing and Speech Center Lexington, KY Lexington Hearing and Speech Center Little Peeps Symposium: "Not a Second to Lose! The Race for Auditory Development."

University of Kentucky, Center for Clinical and Translational Science Lexington, KY 05/2016 CCTS Clinical Research Update: "Interdisciplinary Research with Children: Examples from Biomedical and Behavioral Studies." University of Kentucky, Global Health Leadership Symposium Lexington, KY 09/2020 "Surgery in Low Resource Settings" **University of Kentucky College of Nursing DREAM Scholars Program** 02/2022 "An Introduction to Dissemination and Implementation Research" University of Kentucky College of Medicine Department of Psychiatry **Diversity and Inclusion Day** 04/2022 "COVID-19 Impacts on the Deaf and Hard of Hearing Population" State/Regional **Ohio Academy of Audiology** Columbus, OH 02/2011 Ohio Academy of Audiology Annual Meeting: "Neuroradiology and Related Neuroanatomy for the Audiologist." **Kentucky Society of Otolaryngology** Lexington, KY 05/2011 Kentucky Society of Otolaryngology Annual Meeting: "Vestibular Schwannoma: Update on Current Therapies and Potential Future Options." **Heuser Hearing Institute** Louisville, KY 05/2011 Heuser Hearing Institute Grand Rounds: "Pediatric Neuroradiology and Neuroanatomy for the Hearing Specialist." **Ohio School Speech Pathology Educational Audiology Coalition** Columbus, OH 10/2011 Ohio School Speech Pathology Educational Audiology Coalition Fall Conference: "Pediatric Neuroradiology and Clinical Implications for the Pediatric Hearing Specialist."

**Kentucky Coalition of Nurse Practitioners and Nurse Midwives** 

Louisville, KY

04/2012 The Kentucky Coalition of Nurse Practitioners and Nurse Midwives 24th Annual Conference: "ENT Through the Lifespan: Caring for the Ear from Cradle to Grave." Hearing Loss Association of America, Kentucky Chapter (Louisville) Louisville, KY 05/2012 HLAA Monthly Meeting: "Breaking the Silence: An Overview of Cochlear Implantation." **Heuser Hearing Institute** Louisville, KY 06/2012 Heuser Hearing Institute Grand Rounds: "Horizon of Hope: Addressing Audiologic Barriers in East Africa." **Kentucky Academy of Physician Assistants** Lexington, KY 10/2012 Kentucky Association of Physician Assistants Annual Meeting: "Evaluation of Dizziness in the Primary Care Setting." Hearing Loss Association of America, Kentucky Chapter (Bardstown) Bardstown, KY 10/2012 HLAA Monthly Meeting: "Breaking the Silence: An Overview of Cochlear Implantation." **Kentucky Speech and Hearing Association** Lexington, KY 02/2013 Kentucky Speech and Hearing Association Annual Meeting: "Diagnostic and Therapeutic Inequities in Appalachian Pediatric Congenital Hearing Loss." Hearing Loss Association of America, Kentucky Chapter Louisville, KY 07/2013 **HLAA Annual Meeting:** #1: "Pediatric Congenital Hearing Loss in Appalachia: Assessing and Addressing Diagnostic Delays." #2: "Hearing Preservation in Cochlear Implantation." **Kentucky Speech and Hearing Association** Lexington, KY 02/2015 Kentucky Speech and Hearing Association Annual Meeting: "Hearing Preservation in Cochlear Implantation." **Kentucky Society of Otolaryngology** Lexington, KY 04/2015 Kentucky Society of Otolaryngology Annual Meeting: "Resident Quiz Bowl."

**Kentucky Academy of Audiology** Lexington, KY 07/2015 Kentucky Academy of Audiology Annual Meeting: "Bridging the Gaps: Assessing and Addressing Pediatric Rural Hearing Healthcare Disparities." Hearing Loss Association of America, Kentucky Chapter Louisville, KY 09/2015 **HLAA Annual Meeting:** #1: "Hearing Preservation in Cochlear Implantation." #2: "Diseases of Balance and Equilibrium." **Kentucky Academy of Physician Assistants** Lexington, KY 11/2015 Kentucky Academy of Physician Assistants Annual Meeting: "Hearing Loss and Cochlear Implantation." **Kentucky Systems of Care Academy** Lexington, KY 05/2016 Annual Meeting: "Panel Discussion: 'But He Wears Hearing Aids!' – A Primer on Meeting the Holistic Needs of Children who are Hard of Hearing." **Kentucky Society of Otolaryngology** Lexington, KY 04/2019 Kentucky Society of Otolaryngology Annual Meeting: "Panel Moderator, Otology Case Studies." **Kentucky Primary Care Association** Lexington, KY "Hearing Healthcare Disparities" 10/2021 **Kentucky Speech and Hearing Association** Lexington, KY 02/2022 Kentucky Speech and Hearing Association Annual Meeting: "An Update on Cochlear Implantation Research." **Kentucky Speech and Hearing Association** Lexington, KY 02/2024 Kentucky Speech and Hearing Association Annual Meeting: "Global Health Priorities for the Hearing Professional."

**Kentucky Speech and Hearing Association** 

Lexington, KY

02/2025

Kentucky Speech and Hearing Association Annual Meeting: "Connecting Radiology to Clinical Decision Making: Transdisciplinary Cases for the Hearing Healthcare Provider."

## National/International

	American Academy of Audiology Dallas, TX
04/2009	Learning Lab at the American Academy of Audiology Annual Meeting: "Neuroradiology and Related 3D Neuroanatomy for the Audiologist."
	American Academy of Audiology San Diego, CA
04/2010	Featured Session at the American Academy of Audiology Annual Meeting: "Neuroradiology and Related 3D Neuroanatomy for the Audiologist."
	American Academy of Audiology Chicago, IL
04/2011	Featured Session at the American Academy of Audiology Annual Meeting: "Neuroradiology and Related 3D Neuroanatomy for the Audiologist."
	Alabama Academy of Audiology Sandestin, FL
10/2011	Featured Session at the Alabama Academy of Audiology Annual Meeting: "Neuroradiology and Related 3D Neuroanatomy for the Audiologist."
	American Academy of Audiology Anaheim, CA
04/2013	Featured Session at the American Academy of Audiology AudiologyNOW!: "Hearing Preservation in Cochlear Implantation."
	Indiana University, Department of Otolaryngology – Head and Neck Surgery
03/2014	Indianapolis, IN <b>Devault Research Symposium Keynote Speaker:</b> Bridging the Gaps: Assessing and Addressing Rural Pediatric Hearing Health Disparities.
08/2015	National Center for Hearing Assessment and Management Webinar: "Family Perceptions and Experiences with the Early Hearing Detection and Intervention System in Rural Communities." <a href="http://www.infanthearing.org/resources_home/events/family-perceptions.html">http://www.infanthearing.org/resources_home/events/family-perceptions.html</a>

Johns Hopkins University, Center for Hearing and Balance Baltimore, Maryland 01/2016 Grand Rounds Presentations: Bridging the Gaps: Assessing and Addressing Hearing Health Disparities. **American Cochlear Implant Alliance** Toronto, Ontario, Canada 05/2016 CI2016 International Cochlear Implant Meeting. Session Moderator. **American Neurotology Society** Chicago, IL 09/2017 American Neurotology Society, Fall Scientific Program: Session Comoderator. "Technical Challenges in Cochlear Implantation" American Academy of Otolaryngology – Head Neck Surgery Chicago, IL 09/2017 AAO-HNS Annual Meeting: Miniseminar Panelist. "I Hate My Hearing Aids: Other Options for Hearing Loss." American Academy of Otolaryngology – Head Neck Surgery Atlanta, GA 10/2018 AAO-HNS Annual Meeting: Miniseminar Moderator. "Policy and Practice: How Changing Policy Affects Hearing Healthcare Delivery." American Academy of Otolaryngology – Head Neck Surgery Atlanta, GA 10/2018 AAO-HNS Annual Meeting: Miniseminar Panelist. "I Hate My Hearing Aids: Other Options for Hearing Loss." **American Academy of Audiology** Columbus, OH 03/2019 American Academy of Audiology Annual Meeting: #1: Adult Grand Rounds (Panelist) #2: "Neuroradiology for the Hearing Healthcare Provider." The Triological Society Austin, TX 03/2019 Triological Society Meeting at Combined Otolaryngology Society Meeting (COSM): Congenital Hearing Loss (Panelist) **American Neurotology Society** New Orleans, LA ANS 54th Annual Fall Meeting: "Neurotology 2019: Extending Our 09/2019 Reach" American Academy of Otolaryngology – Head Neck Surgery

New Orleans, LA

09/2019	AAO-HNS Annual Meeting: Mini-seminar Panelist. "Clinical Practice Guideline: Meniere's Disease."
	Virginia Mason Medical Center, Temporal Bone Lab and Current Management Techniques in Otology and Otolaryngology Seattle, Washington
11/2019	<b>Keynote Speaker:</b> Principles for the Practical Management of Meniere's Disease Patients
	Johns Hopkins University, Center for Hearing and Balance Baltimore, Maryland
12/2019	<b>Grand Rounds Presentations:</b> Reaching the Unreachable: The Evidence for Telemedicine in Hearing Healthcare.
	Vanderbilt University, Department of Otolaryngology – Head and Neck Surgery Vail, CO
02/2020	42 <sup>nd</sup> Annual Sisson-Ossoff International Workshop:
	<ul><li>#1: Acoustic Neuromas – Current Topics (Panelist)</li><li>#2: Modern Diagnosis &amp; Treatment of Vertiginous Syndromes</li></ul>
	#3: Cochlear Implant: Current Topics
	University Hospitals Ear, Nose, and Throat Institute, Case Western Reserve University, 18 <sup>th</sup> Annual Temporal Bone Surgical Course with Microsurgical and Endoscopic Approaches to Otologic Disease Cleveland, OH (hybrid virtual meeting)
10/2020	Guest Faculty: Current Updates in Meniere's Disease
	Kenya ENT Society (virtual meeting)
06/2020	"Maximizing Outcomes in Middle Ear and Mastoid Surgery"
00/2020	American Auditory Society
08/2020	Disparities in Hearing Health Care Seminar "Bridging the Gaps in Hearing Health Care"
	American Academy of Otolaryngology – Head Neck Surgery
10/2020	Virtual Meeting AAO-HNS Annual Meeting: Moderator and Panelist. "Expanding Criteria
	for Cochlear Implantation."
	American Academy of Audiology
04/2021	Virtual Meeting AAA Annual Meeting: "Neuroradiology for the Audiologist."
	American Cochlear Implant Alliance Virtual Meeting

04/2021	CI2020 Session Moderator, "Social Justice and Hearing Healthcare: Addressing Equity in Cochlear Implantation."
09/2021	Kenya ENT Society (virtual meeting) "COVID-19 Links to Hearing Loss, Tinnitus, and Vertigo"
	American Speech-Language-Hearing Association Washington, DC
11/19/2021	Annual Meeting: "Hearing Health Care Disparities in Children."
01/22/2022	Coalition of Global Hearing Health (virtual meeting) Otitis Media Panel "Podictorio GSOM Disposition and the Social Determinants of Health."
01/22/2022	"Pediatric CSOM Disparities and the Social Determinants of Health"
02/1/2022	Cochlear Implant Innovation, Research, and Advancement (CIRCA) Workshop (virtual meeting) Panelist: "Cochlear Implant Disparities"
	American Speech-Language-Hearing Association, SIG 9, Pediatric
02/16/2022	Hearing and Hearing Disorders, Lunch and Learn (virtual) "Pediatric Hearing Healthcare Disparities"
	American Auditory Society
02/26/2022	Scottsdale, AZ Annual Meeting: Invited Lecturer for <i>Translational Research Lecture</i>
	"Pragmatic Approaches to Address Hearing Healthcare Disparities."
	University of Minnesota
03/28/2022	Department of Otolaryngology – Head & Neck Surgery Grand Rounds "Pragmatic Approaches to Address Hearing Healthcare Disparities"
	Cook Children's Hospital
04/26/2022	Pediatric Grand Rounds "Assessing and Addressing Pediatric Hearing Healthcare Disparities"
	American Society of Pediatric Otolaryngology
	Dallas, TX
04/30/2022	Cotton-Fitton Lecture: "Addressing Otolaryngology Disparities in Children: A Discussion of Multilevel Interventions."
	George Washington University
	Washington, DC Speech, Language, and Hearing Sciences Guest Speaker
05/18/2022	"Assessing and Addressing Pediatric Hearing Healthcare Disparities"
	American Cochlear Implant Alliance

05/2022	Washington, DC CI2022 Cochlear Implant Meeting. Session Moderator.
06/19/2022	Hearing Across the Lifespan (HEAL) 2022 Lake Como, Italy Improving EHDI. Session Moderator.
06/22/2022	University of North Carolina Department of Otolaryngology – Head & Neck Surgery Grand Rounds "Pragmatic Approaches to Address Hearing Healthcare Disparities"
09/28-29/2022	University of Michigan, Department of Otolaryngology – Head and Neck Surgery 168 <sup>th</sup> Temporal Bone Course Ann Arbor, MI Guest Faculty
10/13/2022	1st International Vestibular Course Kenyan ENT Society Invited Speaker, "Practical Vestibular Anatomy" and "Physiology of the Vestibular System"
11/07/2022	Fall CI 2022 #1: Hearing Health Disparities #2: Hearing Health Care Disparities in Cochlear Implantation (Panelist)
11/11-13/2022	Florida Combined Otolaryngology Meeting 2022 Guest Faculty #1: Radiology for the Hearing Healthcare Provider #2: Managing Auditory Processing Disorders in ENT
12/02/2022	Pennsylvania EHDI Meeting "Pediatric Hearing Healthcare Disparities"
01/18-19/2023	International Federation of Otorhinolaryngological Societies (IFOS) Invited Speaker, Humanitarian Track
02/03/2023	Albert Einstein College of Medicine/Montefiore Medical Center Department of Otolaryngology – Head & Neck Surgery Grand Rounds "An Update on Single Sided Deafness"
03/01/2023	Population Hearing Health Care Scottsdale, AZ Invited Speaker, "Community-based Pediatric Hearing Healthcare Research to Promote Equity"
	American Otological Society

**Annual Spring Meeting (COSM)** Boston, MA 05/07/2023 Moderator, Featured Panel: "An Overview of Otologic Disparities Across the Lifespan" **Nemours Children's Hospital** Orlando, FL 05/17/2023 2<sup>nd</sup> Annual Research Week, Keynote Lecture: "A Commitment to Equitable Healthcare: The Power of Pragmatic Research." Surgery Grand Rounds: "The Role of a Surgeon in Addressing Health Disparities" **American Cochlear Implant Alliance** Dallas, TX 06/2023 CI2023 Cochlear Implant Meeting. Session Moderator. American Academy of Otolaryngology – Head Neck Surgery Virtual Meeting AAO-HNS Annual Meeting: Panelist. "Helping Patients with Hearing 10/01/2023 Loss Overcome Barriers to Surgical Procedures." **Fall CI 2023** 10/22-24/2023 #1: Challenges to Providing Care in the Community: Near and Far (Panelist) #2: Battle of the Experts: Electrode Selection in Hearing Preservation Surgery (Moderator)

**Boys Town National Research Hospital** 

Omaha, NE

11/02/2023 Patrick E. Brookhouser Keynote Lecture: "Promoting Equity in Pediatric

Hearing Healthcare"

Florida Combined Otolaryngology Meeting 2023

11/02-03/2023 Guest Faculty

#1: Neuroimaging of the Auditory and Vestibular Systems: What every

ear specialist should know (Moderator)

#2: To Implant or Not to Implant: Interactive Case Study Discussion

(Panelist)

Icahn School of Medicine at Mount Sinai Medical Center

New York, New York

12/2023 Grand Rounds Presentations: Promoting Health Equity in

Otolaryngology.

**Ultimate Colorado Mid-Winter Ski Meeting** 

Vail, Colorado

01/28-30/2023	Invited Presentation: Health Equity Initiative in ENT Panelist: Otology Broad Implications Moderator: Management of Temporal Bone Disease Invited Presentation: Current Management of CSF Otorrhea
	University of Cincinnati Department of Otolaryngology Cincinnati, OH Grand Rounds Presentation: "Promoting Health Equity in
03/2024	Otolaryngology"  Guest Professor and Temporal Bone Lab Instructor
04/2024	Columbia University Irving College of Medicine Department of Otolaryngology – Head and Neck Surgery New York, New York Grand Rounds Presentation: "Promoting Health Equity in
	Otolaryngology"  Association for Research in Otolaryngology/Triological Society
04/29/2024	Webinar Panelist: Landing Your First R01- The K-To-R Transition
06/20-21/2024	NIDCD Hearing Health Care Panel Invited Panelist: Hearing health care consequences and outcomes
07/2024	American Cochlear Implant Alliance Vancouver, CA CI2024 Cochlear Implant Meeting. Session Moderator.
	House Ear Clinic Grand Rounds
08/16/2024	Prioritizing Hearing Health Equity: The Power of Pragmatic Research
08/16/2024 04/04/2025	
	Prioritizing Hearing Health Equity: The Power of Pragmatic Research  The Ohio State University, Department of Speech and Hearing Science Columbus, OH Visiting Professor: A Commitment to Equitable Healthcare: The Power of

#### XIV. RESEARCH & INTELLECTUAL CONTRIBUTIONS

#### A. PUBLICATIONS

#### Peer-Reviewed Original Research in Professional, Scientific or Educational Journals

- **1. Bush M**, Gupta S. Lilliputian Hallucinations and Marijuana Dependence in a Bipolar Patient. The Jefferson Journal of Psychiatry. 2002. 17(1): 68-72.
- **2. Bush M**, Shinn J, Young AB, Jones R. Long-term Hearing Results in Gamma Knife Radiosurgery for Acoustic Neuromas. Laryngoscope. 2008 Jun; 118(6): 1019-22. PMID: 18364592.
- **3. Bush M**, Jones R, Shinn J. Auditory Brainstem Response Threshold Differences in Patients with Vestibular Schwannoma: A New Diagnostic Index. Ear, Nose, and Throat Journal. 2008 Aug; 87(8):458-62. PMID: 18712694.
- 4. **Bush M**, Jones R, Givens C. The value of CT venography in the diagnosis of jugular bulb diverticulum: a series of 3 cases Ear, Nose, and Throat Journal. 2009 April; 88(4): E04. PMID: 19358118.
- 5. Shinn J, **Bush M**, Jones R. Correlation of Central Auditory Processing Deficits and Vascular Loop Syndrome. Ear, Nose, and Throat Journal. 2009 Oct;88(10): E34-7. PMID: 19826989.
- **6. Bush M**, Jones R, Shinn J. The Clinical Reliability of Vestibular Evoked Myogenic Potentials. Ear, Nose, and Throat Journal 2010 Apr; 89(4): 170-6. PMID: 20397145.
- **7. Bush M**, Pritchett C, Packer M, Ray-Chaudhury, A, Jacob A. Hemangioblastoma of the Cerebellopontine Angle. Archives of Otolaryngology Head and Neck Surgery. 2010 Jul; 136(7): 734-8. PMID: 20644074.
- **8. Bush M**, Oblinger J, Brendel V, Santarelli G, Huang J, Akhmametyeva E, Burns S, Wheeler, Davis J, Yates C, Chaudhury A, Kulp S, Chen C, Chang L, Welling D, Jacob A. AR42, A Novel Histone Deacetylase Inhibitor, as a Potential Therapy for Vestibular Schwannomas and Meningiomas. Neuro Oncology 2011 Sep. 13(9): 983-99. PMID: 21778190.
- **9.** Jacob A, Oblinger J, **Bush M**, Brendel V, Santarelli G, Chaudhury AR, Kulp S, La Perle KMD, Chen CS, Chang LS, Welling DB. Preclinical Validation of AR42, a Novel Histone Deacetylase Inhibitor, as Treatment for Vestibular Schwannomas. Laryngoscope. 2012 Jan; 122(1):174-89. PMID: 22109824.
- **10. Bush M**, Oblinger J, Davletova S, Burns S, Chang LS, Welling DB, Jacob A. Treatment of Vestibular Schwannoma Cells with ErbB Inhibitors. Otology & Neurotology. 2012 Feb; 33(2):244-57. PMID: 22222570
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- **7. Bush ML.** Hearing Health Healthcare Disparities in Appalachia. J Appalach Health 2021;3(4):5–10.

- **8.** Sataloff RT, **Bush ML**, Chandra R, Chepeha D, Rotenberg B, Fisher EW, Goldenberg D, Hanna EY, Kerschner JE, Kraus DH, Krouse JH, Li D, Link M, Lustig LR, Selesnick SH, Sindwani R, Smith RJ, Tysome J, Weber PC, Welling DB. Systematic and Other Reviews: Criteria and Complexities. Annals of Otology, Rhinology, and Laryngology. 2021. 130(7):649-652. PMID: 33759576.
- 9. Sataloff RT, Bush ML, Chandra R, Chepeha D, Rotenberg B, Fisher EW, Goldenberg D, Hanna EY, Kerschner JE, Kraus DH, Krouse JH, Li D, Link M, Lustig LR, Selesnick SH, Sindwani R, Smith RJ, Tysome J, Weber PC, Welling DB. Systematic and Other Reviews: Criteria and Complexities. Laryngoscope. 2021. 131(7):1443-1445. PMID:34000067. 10. Sataloff RT, Bush ML, Chandra R, Chepeha D, Rotenberg B, Fisher EW, Goldenberg D, Hanna EY, Kerschner JE, Kraus DH, Krouse JH, Li D, Link M, Lustig LR, Selesnick SH, Sindwani R, Smith RJ, Tysome J, Weber PC, Welling DB. Systematic and Other Reviews: Criteria and Complexities. J Neurol Surg B Skull Base. 2021. 82(3):273-276. PMID:34026402. 11. Sataloff RT, Bush ML, Chandra R, Chepeha D, Rotenberg B, Fisher EW, Goldenberg D, Hanna EY, Kerschner JE, Kraus DH, Krouse JH, Li D, Link M, Lustig LR, Selesnick SH, Sindwani R, Smith RJ, Tysome J, Weber PC, Welling DB. Systematic and Other Reviews: Criteria and Complexities. Head Neck. 2021. 43(7):1979-1982. PMID:34118119. 12. Sataloff RT, Bush ML, Chandra R, Chepeha D, Rotenberg B, Fisher EW, Goldenberg D, Hanna EY, Kerschner JE, Kraus DH, Krouse JH, Li D, Link M, Lustig LR, Selesnick SH, Sindwani R, Smith RJ, Tysome J, Weber PC, Welling DB. Systematic and Other Reviews: Criteria and Complexities. Am J Rhinol Allergy. 2021;35(4):412-416. PMID: 34151616 13. Sataloff RT, Bush ML, Chandra R, Chepeha D, Rotenberg B, Fisher EW, Goldenberg D, Hanna EY, Kerschner JE, Kraus DH, Krouse JH, Li D, Link M, Lustig LR, Selesnick SH, Sindwani R, Smith RJ, Tysome J, Weber PC, Welling DB. Systematic and Other Reviews: Criteria and Complexities. J Otolaryngol Head Neck Surg. 2021;50(1):41. PMID: 34193276. 14. Sataloff RT, Bush ML, Chandra R, Chepeha D, Rotenberg B, Fisher EW, Goldenberg D, Hanna EY, Kerschner JE, Kraus DH, Krouse JH, Li D, Link M, Lustig LR, Selesnick SH, Sindwani R, Smith RJ, Tysome J, Weber PC, Welling DB. Systematic and Other Reviews: Criteria and Complexities. Int J Pediatr Otorhinolaryngol. 2021; 147:110640. PMID: 34246491. 15 Sataloff RT, Bush ML, Chandra R, Chepeha D, Rotenberg B, Fisher EW, Goldenberg D, Hanna EY, Kerschner JE, Kraus DH, Krouse JH, Li D, Link M, Lustig LR, Selesnick SH, Sindwani R, Smith RJ, Tysome J, Weber PC, Welling DB. Systematic and Other Reviews: Criteria and Complexities. J Laryngol Otol. 2021;135(7):565-567. PMID: 34254580. 16. Sataloff RT, Bush ML, Chandra R, Chepeha D, Rotenberg B, Fisher EW, Goldenberg D, Hanna EY, Kerschner JE, Kraus DH, Krouse JH, Li D, Link M, Lustig LR, Selesnick SH, Sindwani R, Smith RJ, Tysome J, Weber PC, Welling DB. Systematic and Other Reviews: Criteria and Complexities. Ear Nose Throat J. 2021;100(6):403-406. PMID: 34259592. 17. Sataloff RT, Bush ML, Chandra R, Chepeha D, Rotenberg B, Fisher EW, Goldenberg D, Hanna EY, Kerschner JE, Kraus DH, Krouse JH, Li D, Link M, Lustig LR, Selesnick SH, Sindwani R, Smith RJ, Tysome J, Weber PC, Welling DB. Systematic and Other Reviews: Criteria and Complexities. Zhonghua Er Bi Yan Hou Tou Jing Wai Ke Za Zhi. 2021;56(7):687-
- **18.** Sataloff RT, **Bush ML**, Chandra R, Chepeha D, Rotenberg B, Fisher EW, Goldenberg D, Hanna EY, Kerschner JE, Kraus DH, Krouse JH, Li D, Link M, Lustig LR, Selesnick SH, Sindwani R, Smith RJ, Tysome J, Weber PC, Welling DB. Systematic and Other Reviews: Criteria and Complexities. J Voice. 2021;35(4):509-511. PMID: 34384584.

690. PMID: 34344093.

- **19.** Sataloff RT, **Bush ML**, Chandra R, Chepeha D, Rotenberg B, Fisher EW, Goldenberg D, Hanna EY, Kerschner JE, Kraus DH, Krouse JH, Li D, Link M, Lustig LR, Selesnick SH, Sindwani R, Smith RJ, Tysome J, Weber PC, Welling DB. Systematic and Other Reviews: Criteria and Complexities. World J Otorhinolaryngol Head Neck Surg. 2021;7(3):236-239. PMID: 34430831.
- **20.** Sataloff RT, **Bush ML**, Chandra R, Chepeha D, Rotenberg B, Fisher EW, Goldenberg D, Hanna EY, Kerschner JE, Kraus DH, Krouse JH, Li D, Link M, Lustig LR, Selesnick SH, Sindwani R, Smith RJ, Tysome J, Weber PC, Welling DB. Systematic and Other Reviews: Criteria and Complexities. Am J Otolaryngol. 2021;42(5):102957. PMID: 34446167.
- **21.** Sorkin D, **Bush ML**, Park L. Proceedings of the CI 2022DC Symposium: Emerging Issues in Cochlear Implantation. Otology & Neurotology. 2023. 44(8): p.e612.
- **22**. **Bush ML**. Hearing Loss Among Adults What's Up with That? JAMA Otolaryngol Head Neck Surg. May 1, 2025 (online).
- **23.** Lane, H., Oberman, M.K., Jenson, M.I., Volkheimer, J., Bettger, J.P., Deshpande, S., Robler, S.K., **Bush**, **M.** and Emmett, S. Designing with implementation in mind: rapid analysis of community input to adapt and implement an evidence-based hearing health intervention across two large, randomized trials. *Annals of Behavioral Medicine*. Vol. 58, pp. S116-S116. 2024.

#### **Work In-Progress**

- **1.** Masden L, Willgruber A, Vivas E, Kinealy B, Adkins D, **Bush ML**. Quality and Readability of Websites regarding Meniere's Disease. *JAMA OTO*. 2025 (submitted)
- **2.** Sharrer C, Meinhardt G, Perez N, Mahairas A, Adkins D, Burruss C, **Bush ML**. Association of Diabetes Mellitus and Hearing Loss: A Systematic Review. *(in preparation)*
- **3.** Rawls C, Leader P, Crouch J, Kinealy B, Adkins D, Willgruber A, Schuh M, Zeitler D, Jones R, Bush ML. Quality and Readability of Websites regarding Tympanoplasty and Mastoidectomy. *(in preparation)*
- **4.** Boggero IA, Patel N, Brown C, Adatorwovor R, Litt MD, Fillingim RB, Moreno-Hay I, Shaddox L, **Bush ML**. Initial Evidence for a Brief Psychological Telehealth Intervention for Patients with Chronic Masticatory Pain: Study Design and Protocol. The Journal of the American Dental Association. 2025. (under review)

#### **Books, Book Chapters, Monographs**

- **1. Bush M.** *Diseases of the external and middle ear,* in <u>Disorders of the Auditory System,</u> Musiek F, Baran J, Shinn J, Jones R, eds. San Diego: Plural Pub. 2012.
- **2. Bush M.** *Diseases of the cochlea,* in <u>Disorders of the Auditory System</u>, Musiek F, Baran J, Shinn J, Jones R, eds. San Diego: Plural Pub. 2012.
- **3. Bush M**, Welling DB. *Neurofibromatosis Type 2*, in <u>The Five-Minute Neurology Consult</u>, 2<sup>nd</sup> ed. Lynn DJ, Newton HB, Rae-Grant AD, eds. Philadelphia: Lippincott Williams & Wilkins. 2012. ISBN: 9781451100129
- **4. Bush M**, Welling DB. *Cerebellopontine Angle Tumors*, in <u>Head and Neck Surgery Otolaryngology</u>, 5<sup>th</sup> Johnson JT and Rosen CA, eds. Philadelphia: Lippincott Williams & Wilkins. 2013. ISBN: 9781609136020.

- **5.** McNulty B, **Bush M**. *Non-fluctuating Unilateral Vestibular Loss*, in Diagnosis and Treatment of Vestibular Disorders. Babu S, Schutt CA, Bojrab DI, eds. Cham, Switzerland: Springer. 2019. ISBN: 9783319978574.
- **6.** Silver N, **Bush M**, Myers J. *Management of the Facial Nerve*. In <u>Temporal Bone Cancer</u>, edited by Gidley P, Weber R, and DeMonte F. New York: Springer. 2018. ISBN: 3319745387
- **7. Bush M**. *Outer and Middle Ear Disorders*, in <u>Disorders of the Auditory System</u>, 2<sup>nd</sup> ed. Musiek F, Baran J, Shinn J, Jones R, eds. San Diego: Plural Pub. 2020.
- **8. Bush M**. *Inner Ear Disorders*, in <u>Disorders of the Auditory System</u>, 2<sup>nd</sup> ed. Musiek F, Baran J, Shinn J, Jones R, eds. San Diego: Plural Pub. 2020.
- **9. Bush M**, Iverson K, McNulty B. *Myringoplasty*, in <u>Surgery of the Ear</u>, 7<sup>th</sup> ed. Haynes D, Minor L, Carlson M, Welling DB, eds. Raleigh: People's Medical Publishing House. (In Press)
- **10.** Song Y, **Bush M**, Welling DB. *Cerebellopontine Angle Tumors*, in <u>Head and Neck Surgery Otolaryngology</u>, 6<sup>th</sup> Johnson JT and Rosen CA, eds. Philadelphia: Lippincott Williams & Wilkins, 2023.
- **11.** Cass N, Adkins D, **Bush M**. *Diffuse Osseous Lesions of the Temporal Bone*, in <u>Neurotology</u>, 3<sup>rd</sup> ed. edited by Jackler RK, Santa Maria P, Gurgel RK. Philadelphia: Elsevier. (2024 In press)
- **12.** Warren S, Coco L, Clark C, Wieser M, **Bush M**. *Person- and Family-Centered Care Considerations for Diverse Populations*. Eds: Munoz K, Twohig M. <u>Person- and Family-Centered Care in Audiology</u>. Oxford: Oxford University Press. In press.
- **13.** Davis AG, Schuh M, Hawley K, **Bush ML**, *Chapter 13 Disparities in cochlear implantation: summary and recommendations*. Eds: Bowe SN, Faucett EA, <u>Healthcare Disparities in Otolaryngology</u>, Elsevier, 2024, Pages: 223-251. ISBN 9780443107146.

#### **Books**

Neuroimaging of the Auditory and Vestibular Systems A Clinician's Guide. **Bush ML**, Shinn J, Zeitler D, Chapman M, eds. San Diego: Plural Pub. 2024. ISBN 13: 9781635504316

#### Letters, Book Reviews, Lay Press

None

#### **PhD Dissertation**

**Bush, M.** "Promotion of Early Pediatric Hearing Detection Through Patient Navigation" (2017). *Theses and Dissertations—CTS*. 6.

#### XIV. RESEARCH & INTELLECTUAL CONTRIBUTIONS - continued

#### **B. ABSTRACT PRESENTATIONS**

#### **POSTER PRESENTATIONS**

#### Local/State/Regional Meetings

- 1. 04/2009 **Bush M**, Burns S, Kulp S, Chen CS, Jacob A, Welling DB, Chang LS. Mutation Analysis and *In Vitro* HDAC Inhibitor Treatment of Benign Human Meningioma Cells. The Ohio State University Medical Center Research Day, Columbus, OH.
- 2. 02/2010 Burns S, **Bush M,** Davis J, Welling DB, Chang LS. Intracranial Xenograft Models for Benign and Malignant *NF2*-Deficient Meningiomas. The Ohio State University Comprehensive Cancer Center Annual Conference. Columbus, OH.
- 3. 02/2010 Oblinger J, Lee T, Packer M, Huang J, **Bush M,** Kulp S, Chen CS, Giovannini M, Welling DB, Jacob A, Chang LS. HDAC42 and OSU-03012, Novel Small-Molecule Inhibitors for the Treatment of Vestibular Schwannomas. The Ohio State University Comprehensive Cancer Center Annual Conference. Columbus, OH.
- 4. 04/2010 Burns S, **Bush M**, Davis J, Welling DB, Chang LS. Intracranial Xenograft Models for Benign and Malignant *NF2*-Deficient Meningiomas. Nationwide Children's Hospital Research Institute Research Week. Columbus, OH.
- 5. 04/2010 Davis J, Burns S, **Bush M**, Welling DB, Chang LS. Establishment of Benign and Malignant *NF2*-Deficient Meningioma Mouse Models. The Ohio State University Annual Research Day, Columbus, OH.
- 6. 04/2010 Hull B, **Bush M**, Yates C, Miles-Markley B, Chang LS, Welling DB. Assessment of Color Vision and Developmental Anomalies in Neurofibromatosis type 2 Patients. The Ohio State University Annual Research Day, Columbus, OH.
- 7. 02/2011 Burns S, Akhmametyeva E, Oblinger J, **Bush M**, Huang J, Senner V, Giovannini M, Chen CS, Jacob A, Welling DB, Chang LS. AR-42 and AR-12 Potently Inhibit the Growth of NF2-deficient Human Meningiomas. The Ohio State University Comprehensive Cancer Center Annual Conference. Columbus, OH.
- 8. 04/2011 Burns S, Akhmametyeva E, Oblinger J, **Bush M**, Huang J, Senner V, Giovannini M, Chen CS, Jacob A, Welling DB, Chang LS. AR-42 and AR-12 Potently Inhibit the Growth of NF2-deficient Human Meningiomas. Nationwide Children's Hospital Research Institute Research Week, Columbus, OH.
- 9. 04/2011 **Bush, M**, Oblinger J, Brendel V, Santarelli G, Huang J, Akhmametyeva E, Burns S, Wheeler, Davis J, Yates C, Chaudhury A, Kulp S, Chen C, Chang L, Welling D, Jacob A. AR42, A Novel Histone Deacetylase Inhibitor, as a Potential Therapy for Vestibular Schwannomas and Meningiomas. Nationwide Children's Hospital Research Institute Research Week, Columbus, OH.
- 10. 04/2011 **Bush M,** Oblinger J, Davletova S, Burns S, Chang LS, Welling DB, Jacob A. Treatment of Vestibular Schwannoma Cells with ErbB Inhibitors. The Ohio State University Annual Research Day, Columbus, OH.
- 11. 04/2011 **Bush M**, Oblinger J, Brendel V, Santarelli G, Huang J, Akhmametyeva E, Burns S, Wheeler, Davis J, Yates C, Chaudhury A, Kulp S, Chen C, Chang L, Welling

- D, Jacob A. AR42, A Novel Histone Deacetylase Inhibitor, as a Potential Therapy for Vestibular Schwannomas and Meningiomas. The Ohio State University Annual Research Day, Columbus, Ohio.
- 12. 02/2012 Burns S, Akhmametyeva E, Oblinger Huang J, **Bush M**, Senner V, Chen CS, Jacob A, Welling DB, Chang LS. AR-42, a Novel Histone Deacetylase Inhibitor, Causes G2 Arrest in Meningioma Cells while Arresting Normal Meningeal Cells at G1 and Potently Inhibits Tumor Growth in a Quantifiable NF2-deficient Benign Meningioma Model. The 14<sup>th</sup> Ohio State University Comprehensive Cancer Center Annual Scientific Meeting, Columbus, OH.
- 13. 04/2012 Burns, S.S., E.A. Akhmametyeva, J.L. Oblinger, **Bush M**, J. Huang, A. Qian, V. Senner, C.-S. Chen, A. Jacob, D.B. Welling, L.-S. Chang. AR-42, a Novel Histone Deacetylase Inhibitor, Differentially Affects Cell-Cycle Progression of Meningeal and Meningioma Cells and Potently Inhibits Tumor Growth in a Quantifiable NF2-deficient Benign Meningioma Model. The Research Institute at Nationwide Children's Hospital 2012 Research Week, Columbus, Ohio.
- 14. 04/2012 Burns S, Akhmametyeva E, Oblinger J, Huang J, **Bush M**, Senner V, Chen CS, Jacob A, Welling DB, Chang LS. AR-42, a Novel Histone Deacetylase Inhibitor, Causes G2 Arrest in Meningioma Cells while Arresting Normal Meningeal Cells at G1 and Potently Inhibits Tumor Growth in a Quantifiable NF2-deficient Benign Meningioma Model. The Research Institute at Nationwide Children's Hospital 2012 Research Week, Columbus, OH.
- 15. 02/2013 Osetinsky M, Shinn J, Fardo, Gal TJ, Schoenberg N, **Bush M**. Congenital Sensorineural Hearing Loss in Appalachia. AOA Groves Memorial MD/PhD Program Student Research Symposium, University of Kentucky, Lexington, Kentucky. February 20, 2013.
- 16. 03/2014 **Bush M**, Hardin B, Rayle C, Lester C, Studts C, Shinn J. Rural Barriers to Early Diagnosis and Treatment of Infant Hearing Loss in Appalachia. 9th Annual CCTS Spring Conference University of Kentucky Center for Clinical and Translational Science, Lexington Convention Center, Lexington, Kentucky.
- 17. 03/2014 Noblitt B, Alexander D, Lester C, Shinn J, **Bush M**. Rural Primary Care Provider Knowledge and Practice Patterns of Congenital Hearing Loss. 9th Annual CCTS Spring Conference University of Kentucky Center for Clinical and Translational Science, Lexington Convention Center, Lexington, Kentucky.

#### National/International Meetings

- 1. 03/2006 **Bush M**, Jones R, Musiek F & Shinn J. Auditory Brainstem Response and Behavioral Testing in Acoustic Neuroma Detection. American Auditory Society Meeting, Scottsdale, AZ.
- 2. 03/2007 **Bush M**, Jones R, Shinn J. Test-Retest Reliability of VEMPS. American Auditory Society Meeting, Scottsdale, AZ.
- 3. 06/2009 **Bush M**, Oblinger J, Burns S, Kulp S, Chen CS, Senner V, Jacob A, Welling DB, Chang LS. Preclinical Evaluation of HDAC Inhibitors and an EGFR Inhibitor on Vestibular Schwannoma and Meningioma. Childrens Tumor Foundation NF Conference. Portland, OR.

- 4. 06/2011 **Bush M**, Bratasz A, Brendel V, Manning A, Oblinger J, Chang LS, Welling DB, Jacob A, Powell K. The Use of Magnetic Resonance Spectroscopy (MRS) in Monitoring Vestibular Schwannoma Growth and Treatment Effect. Childrens Tumor Foundation NF Conference. Jackson Hole, WY.
- 5. 06/2011 **Bush M**, Oblinger J, Brendel V, Santarelli G, Huang J, Akhmametyeva E, Burns S, Wheeler, Davis J, Yates C, Chaudhury A, Kulp S, Chen C, Chang L, Welling D, Jacob A. AR42, A Novel Histone Deacetylase Inhibitor, as a Potential Therapy for Vestibular Schwannomas and Meningiomas. Childrens Tumor Foundation NF Conference. Jackson Hole, WY.
- 6. 09/2011 Walz P, **Bush M**, Robinett Z, Kirsch C, Welling DB. 3D Volumetric Conformal Analysis of Vestibular Schwannomas: Comparison of volumetric and linear measurements for estimation of sporadic vestibular schwannoma growth.

  American Academy of Otolaryngology Head and Neck Surgery Annual Meeting, San Francisco, CA.
- 7. 03/2012 Chang E, Bingcang C, Fornwalt B, **Bush M**, Gal T, Jones R, Shinn J. The Utility of Monothermal Caloric Testing in Screening for Vestibular Dysfunction. American Auditory Society Annual Meeting. Scottsdale, AZ.
- 8. 04/2013 **Bush M**, Burton M, Loan A, Shinn J. Timing Discrepancies of Early Intervention Hearing Services in Urban and Rural Cochlear Implant Recipients. American Otological Society Annual Meeting COSM. Orlando, FL.
- 9. 04/2013 **Bush M**, Bianchi K, Osetinsky M, Shinn J. Rural Pediatric Hearing Healthcare Disparity: Factors in Delayed Congenital Hearing Loss Diagnosis and Intervention. Triological Society Annual Meeting COSM. Orlando, FL.
- 10. 04/2013 Roberts D, **Bush M**, Jones R. Adult Progressive Sensorineural Hearing Loss: Is pre-operative imaging necessary prior to cochlear implantation. American Neurotology Society Annual Meeting COSM. Orlando, FL.
- 11. 04/2013 **Bush M**, Bianchi K, Osetinsky M, Shinn J. Bridging the Gap: Assessment of Hearing Healthcare Barriers in Appalachia. Early Detection Hearing and Intervention Annual Meeting, Glendale, AZ. *Outstanding Poster Award (Cross-cultural Focus)*
- 12. 04/2013 **Bush M,** Bianchi K, Lester C, Shinn J, Gal TJ, Fardo D, Schoenberg N. Diagnostic Disparities of Pediatric Congenital Hearing Loss in Appalachia. Translational Science 2013, Washington, DC. *Scholars Abstract Award*.
- 13. 05/2014 Alexander D, Noblitt B, Lester C, Shinn J, **Bush M.** Rural Primary Care Provider Knowledge and Practice Patterns of Congenital Hearing Loss. Triological Society Annual Meeting COSM. Las Vegas, NV.
- 14. 03/2015 **Bush M**, Christian J, Bianchi K, Lester C, Schoenberg N. Targeting Regional Pediatric Congenital Hearing Loss Using a Spatial Scan Statistic. National Early Hearing Detection and Intervention Meeting. Louisville, KY.
- 15. 01/2016 Hixon B, Chan S, Shinn J, **Bush M**. Impacts of Hearing Loss and Access to Hearing Healthcare in Rural Adult Cochlear Implant Recipients. Triological Society Combined Section Meeting. Miami, FL. *John E. Bordley, MD Resident Research Award (Southern Section)*.
- 16. 03/2016 Noblitt B, **Bush M**. Barriers and Outcomes of Cochlear Implantation Rehabilitation in Rural Appalachia. 15<sup>th</sup> Annual Early Hearing Detection and Intervention Meeting. San Diego, CA.

- 17. 03/2016 Taylor Z, Anderson S, **Bush M**. Addressing Pediatric Hearing Loss Educational and Practice Gaps in Primary Care Providers. World Congress on Continuing Professional Development. San Diego, CA.
- 18. 05/2016 Chan S, Hixon B, Shinn J, **Bush M**. Hearing Loss in Rural Adults: A Geographic Comparison of Access to Care in Hearing Aid Recipients. American Otological Society Annual Meeting (COSM). Chicago, IL.
- 19. 05/2016 Ritchie R, Alfonso K, Cheriyan M, **Bush M**, Jones R, Weihing J, Shinn J. Effect of Noise on Anesthesiologist Auditory Processing in the Operating Room. International Anesthesia Research Society Annual Meeting and International Science Symposium. San Francisco, CA.
- 20. 01/2017 Fiorillo C, Hughes A, I-Chen C, Westgate P, Gal T, **Bush M**, Comer B. Factors Associated with Patient No-Show Rates in an Academic Otolaryngology Practice. Triological Society Combined Section Meeting. New Orleans, LA.
- 21. 04/2017 Trott S, Cline T, Weihing J, Beshear D, **Bush M**, Shinn J. Hormones and Hearing. American Academy of Audiology Annual Meeting, Indianapolis, Indiana.
- 22. 05/2017 Fiorillo C, Rashidi V, Westgate P, Jacobs J, Studts C, **Bush M**. Assessment of Behavioral Problems in Children with Hearing Loss. American Neurotology Society Annual Meeting (COSM). San Diego, CA. April 28-30, 2017. *President's Award*, 1st Place, ANS Poster Sessions.
- 23. 06/2017 Creel L, Jennings J, Lester C, **Bush M**. Impact of Hospital Scheduling on Follow-Up Appointments After a Failed Newborn Hearing Screen. Academy Health Annual Research Meeting, New Orleans, LA.
- 24. 07/2017 Bigler D, Pilar M, Merritt A, Jacobs J, **Bush M,** Studts C. Parental Psychosocial Barriers in Pediatric Hearing Healthcare: A Qualitative Analysis. 15th Symposium on Cochlear Implants in Children (CI2017). San Francisco, CA.
- 25. 07/2017 Fletcher KT, Liu T, Horrell Wolf EM, Muthoka M, **Bush M**. The Natural History and Rehabilitative Outcomes of Hearing Loss in Congenital Cytomegalovirus: A systematic review. 15th Symposium on Cochlear Implants in Children (CI2017). San Francisco, CA.
- 26. 04/2018 Trott S, Colgove N, Westgate P, **Bush M,** Iverson K. Nasal Endoscopy in Congenital Nasolacrimal Duct Obstruction: A Systematic Review. Annual American Society of Pediatric Otolaryngology Meeting (COSM). National Harbor, MD.
- 27. 04/2018 Alfonso KP, Dicken FW, Rojas Ramirez M, **Bush M,** Comer B. Factors Impacting Otolaryngology in Training (ITE) Scores. Triological Society Annual Meeting (COSM). National Harbor, MD.
- Van Horn A, Creel L, Hines A, **Bush ML**. Neonatal Abstinence Syndrome and Infant Hearing Assessment: A Kid's Inpatient Database (KID) Review. Triological Society Combined Sections Meeting. Coronado, CA. *Frances E. LeJeune Sr., MD Resident Research Award (Southern Section)*
- 29. 03/2019 Shanker A, Rojas-Ramirez M, Jacobs J, Studts C, **Bush M**. Determining the Caregiver Demographic Factors Involved in Non-Adherence to Infant Hearing Diagnostic Testing. National Early Hearing Detection and Intervention Meeting. Chicago, IL.

- 30. 05/2019 Van Horn A, Fitzgerald C, **Bush M**, Iverson KC, Harmon T, Azbell C. Improved Delivery of Care after Hiring a Pediatric Cochlear Implant Coordinator. Annual American Society of Pediatric Otolaryngology Meeting (COSM). Austin, TX.
- 31. 10/2021 Trott S, Young R, Hayden C, Yessin O, **Bush ML**, Gupta N. Risk Factors for OR No-Show in an Academic Otolaryngology Practice. AAO-HNSF 2021 Annual Meeting. Los Angeles, CA.
- 32. 04/2022 Pappal R, Burress C, Witt M, Harryman C, Ali S, **Bush ML**, Fritz M. Risk Factors for the Development of Subglottic and Tracheal Stenosis from the Medical Intensive Care Unit. ABEA Annual Meeting. Dallas, TX.
- 33. 06/2022 Musalia J, Keck J, **Bush ML**, Razick R, Mohammadie S, Hamm J. Performance of Formal Smell Testing and Symptom Screening for Identifying SARS-CoV-2 Infection. Preventive Medicine 2022. Denver, CO.
- 34. 09/2022 Batey K, Thiel C, **Bush ML**, Gupta N. An Evaluation of Factors Influencing Clinician Time Spent with Patients. AAO-HNSF 2022 Annual Meeting. Philadelphia, PA.
- 35. 03/2023 Mahairas M, **Bush M**. A Qualitative Analysis of Parent Perceptions on a Patient Navigation Program for Newborn Hearing Diagnostic Testing. EHDI Annual Conference. Cincinnati, OH.
- 36. 02/2024 Oberman MK, Schuh M, Emmett S, **Bush M**. Adaptation of a Rural School-Based Telehealth Hearing Screening Program. American Auditory Society Annual Meeting. Scottsdale, AZ.
- 37. 02/2024 **Bush M**, Adkins D, Mahairas A, Mangino A, Kinealy B, Yun D, Anwar A. The Impact of Cochlear Implantation on Physical Activity in Adults. CI2024 Spain, Las Palmas, Gran Canaria, Spain.
- 38. 05/2025 Bobo C, Smith E, Elliott L, Karnik K, Leader P, **Bush ML**. Batey K. Geographic Disparities in NOE Fractures: Injury Patterns, Care Delivery, and Clinical Outcomes. COSM 2025 Annual Meeting. New Orleans, LA.
- 39. 10/2025 Kaur I, **Bush ML**. Geospatial Analysis of the Audiologist and Speech-Language Pathologists Workforce in the United States. AAO-HNSF 2025 Annual Meeting. Indianapolis, IN.

#### **PODIUM PRESENTATIONS**

#### **Local/State/Regional Meetings**

- 1. 05/2006 **Bush M**, Jones R, Musiek F & Shinn J. Auditory Brainstem Response and Behavioral Testing in Acoustic Neuroma Detection, Kentucky Society of Otolaryngology Annual Meeting, Dale Hollow Lake Resort, KY. *Kentucky Society of Otolaryngology 1st Place Resident Research Award*
- 2. 05/2007 **Bush M**, Shinn J, Young B, Jones R. Long-term Hearing Results in Gamma Knife Radiosurgery for Acoustic Neuromas. Kentucky Society of Otolaryngology Annual Meeting, Louisville, KY.
- 3. 04/2008 **Bush M**, Jones R, Shinn J. Test-Retest Reliability of VEMPS. Kentucky Society of Otolaryngology Annual Meeting. Harrodsburg, KY *Kentucky Society of Otolaryngology 1st Place Resident Research Award*

- 4. 06/2011 **Bush M**, AR42, A Novel Histone Deacetylase Inhibitor, as a Potential Therapy for Vestibular Schwannomas and Meningiomas. Nineteenth Annual Department of Otolaryngology Alumni Symposium. The Ohio State University, Columbus, OH.
- 5. 06/2012 **Bush M**. Bridging the Gaps: Assessment of Appalachian Pediatric Hearing Loss. 20<sup>th</sup> Annual Department of Otolaryngology Saunders Symposium. The Ohio State University, Columbus, OH.
- 6. 02/2013 Osetinsky M, Shinn J, Fardo, Gal TJ, Schoenberg N, **Bush M**. Congenital Sensorineural Hearing Loss in Appalachia. AOA Groves Memorial MD/PhD Program Student Research Symposium, University of Kentucky, Lexington, Kentucky.
- 7. 04/2013 **Bush M**. Pediatric Congenital Hearing Loss in Appalachia: Assessing and Addressing Diagnostic Delays. 8th Annual CCTS Spring Conference University of Kentucky Center for Clinical and Translational Science, Lexington Convention Center, Lexington, Kentucky.
- 8. 04/2013 **Bush M.** Pediatric Congenital Hearing Loss in Appalachia: Assessing and Addressing Diagnostic Delays. Kentucky Society of Otolaryngology Annual Meeting, University of Kentucky, Lexington, Kentucky.

#### National/International Meetings

- 1. 05/2006 Shinn J, **Bush M**. Current Trends in Electrophysiology. University of Connecticut 1<sup>st</sup> Annual Symposium on (C)APD. Storrs, CT.
- 2. 01/2008 **Bush M**, Shinn J, Young B, Jones R. Long-term Hearing Results in Gamma Knife Radiosurgery for Acoustic Neuromas. The Triological Society Southern Section Meeting, Naples, FL. *The G. Slaughter Fitz-Hugh First Place Resident Research Award*
- 3. 10/2009 Oblinger J, **Bush M**, Kulp S, Chen CS, Jacob A, Chang LS, Welling DB. Radiosensitization of Vestibular Schwannomas by HDAC42. American Acadeemy of Otolaryngology Head and Neck Surgery Annual Meeting. San Diego, CA.
- 4. 10/2009 **Bush M**, Oblinger J, Kulp S, Chen CS, Jacob A, Chang LS, Welling DB. Novel Inhibitors of Vestibular Schwannomas and Meningiomas. American Acadeemy of Otolaryngology Head and Neck Surgery Annual Meeting. San Diego, CA.
- 5. 06/2010 Oblinger J, Lee T, Packer M, Huang J, **Bush M**, Kulp S, Chen CS, Giovannini M, Welling DB, Jacob A, Chang LS. HDAC42 and OSU-03012, Novel Small-Molecule Inhibitors for the Treatment of Vestibular Schwannomas. Children's Tumor Foundation NF Conference. Baltimore, MD.
- 6. 04/2011 **Bush M**, Oblinger J, Davletova S, Burns S, Chang LS, Welling DB, Jacob A. Treatment of Vestibular Schwannoma Cells with ErbB Inhibitors. Combined Otolaryngology Society Meeting (American Neurotology Society). Chicago, IL. *American Neurotology Society Fellow Research Award*
- 7. 06/2011 Burns S, Akhmametyeva E, Oblinger J, **Bush M**, Huang J, Senner V, Giovannini M, Chen CS, Jacob A, Welling DB, Chang LS. AR-42 and AR-12 Potently Inhibit the Growth of NF2-deficient Human Meningiomas. Childrens Tumor Foundation NF Conference. Jackson Hole, WY.

- 8. 01/2012 Cipolla M, Iyer P, Dome C, Welling DB, **Bush M**. Modification and Comparison of Minimally Invasive Cochleostomy Techniques: A Pilot Study. The Triological Society Combined Sections Meeting, Miami, FL. *Paul Holinger, MD Resident Research Award (Middle Section)*
- 9. 05/2014 **Bush M**, Hardin B, Rayle C, Lester C, Studts C, Shinn J. Rural Barriers to Early Diagnosis and Treatment of Infant Hearing Loss in Appalachia. American Otological Society Annual Meeting COSM. Las Vegas, NV.
- 10. 12/2014 **Bush M**. Targeting Regional Pediatric Congenital Hearing Loss Using a Spatial Scan Statistic. 14<sup>th</sup> Annual Cochlear Implants in Children Conference. Nashville, TN.
- 11. 12/2014 Elpers J, **Bush M**. Family Perceptions and Experiences with the Early Hearing Detection and Intervention System in Rural Communities. 14<sup>th</sup> Annual Cochlear Implants in Children Conference. Nashville, TN.
- 12. 12/2014 **Bush M**. Surgical Survey on the Usability and Applicability of the HiFocus Mid Scala Electrode. 14<sup>th</sup> Annual Cochlear Implants in Children Conference. Nashville, TN.
- 13. 05/2015 **Bush M**. Family Perceptions and Experiences with the Early Hearing Detection and Intervention System in Rural Communities. National EHDI Conference. Louisville, KY.
- 14. 05/2016 Hixon B, Chan S, Shinn J, **Bush M**. Assessment of Rural Adult Hearing Health Disparities--Access to Care in Cochlear Implantation. ACIA 14<sup>th</sup> International Conference on Cochlear Implants. Toronto, CA.
- 15. 05/2016 **Bush M**, Noblitt B, Adkins M. Rehabilitation Barriers for Rural Pediatric Cochlear Implant Recipients. 14<sup>th</sup> International Conference on Cochlear Implants. Toronto, CA.
- 16. 02/2017 Creel L, Lester C, **Bush M**. Impact of Hospital Scheduling on Follow-Up Appointments After a Failed Newborn Hearing Screen. National EHDI Conference. Atlanta, GA.
- 17. 07/2017 Fletcher KT, Liu T, Horrell Wolf EM, Muthoka M, **Bush M**. The Natural History and Rehabilitative Outcomes of Hearing Loss in Congenital Cytomegalovirus: A systematic review. Poster Highlights Session. 15th Symposium on Cochlear Implants in Children (CI2017). San Francisco, CA. *ACIA Scholarship Award*
- 18. 10/2018 Fletcher KT, Dicken FW, Adkins M, Cline T, McNulty B, Shinn J, **Bush M**. Comparison of In-Person versus Telemedicine Cochlear Implant Evaluations: A Pilot Study. AAO-HNS Annual Meeting. Atlanta, GA.
- 19. 10/2018 Neff R, Jicha G, Shinn J, **Bush M**, McNulty B. Neuropathological Findings of Dementia Associated with Hearing Loss. AAO-HNS Annual Meeting. Atlanta, GA.
- 20. 09/2019 McNulty B, **Bush M**, Neff R. Association of Hearing Loss and ApoE4 Allele on Alzheimer Disease Prevalence. AAO-HNS Annual Meeting. New Orleans, LA.
- 21. 01/2022 Ruffin W, Couch J, Burress C, **Bush M**. Sociodemographic Factors and Healthcare Utilization in Pediatric Chronic Suppurative Otitis Media. The Triological Society Combined Sections Meeting. Coronado, CA.
- 22. 03/2022 Perez N, **Bush M**. Factors Influencing Pandemic Era EHDI Utilization and Access. EHDI Annual Conference. Cincinnati, OH.

- 23. 05/2022 Nix E, Willgruber A, Rawls C, Kinealy B, Zeitler D, **Bush M**. Readability and Quality of English and Spanish Online Health Information about Cochlear Implants. CI2022 ACIA Annual Conference. Washington, DC.
- 24. 05/2022 Sharrer C, Meinhardt G, Perez N, Downes A, Davidowitz T, Schuh M, Robinson L, Lustig L, **Bush M**. Reporting of Race, Ethnicity, and Sociodemographics in Cochlear Implant Clinical Trials: A Systematic Review. CI2022 ACIA Annual Conference. Washington, DC.
- 25. 06/2022 **Bush M**, Van Horn A, Creel L. In-Utero Opioid Exposure, Neonatal Abstinence Syndrome, and Infant Hearing Loss: A KID'S Database Review. HEAL 2022. Lake Como, Italy.
- 26. 06/2022 **Bush M**, Shinn J, Creel L, Studts C. Improving EHDI Efficiency and Adherence Through Patient Navigation: A Randomized Controlled Trial. HEAL 2022. Lake Como, Italy.
- 27. 06/2023 Davis A, Creel L, **Bush ML**. Cochlear Implant Surgical Disparities in Kentucky. CI2023 Annual Meeting. Dallas, TX.
- 28. 11/2023 Adkins D, Rojas-Ramirez M, Shanker A, Burruss C, Mirsky B, Westgate P, Shinn J, **Bush ML.** Factor Associated with No-Show Rates in a Pediatric Audiology Clinic. Fall CI 2023. Watercolor, FL.
- 28. 02/2024 **Bush M**, Adkins D, Rojas-Ramirez M, Shanker A, Burruss C, Mirsky B, Westgate P, Shinn J. Factors Associated with No-Show Rates in a Pediatric Audiology Clinic. CI2024 Spain, Las Palmas, Gran Canaria, Spain.
- 29. 02/2024 **Bush M**, Nix E, Willgruber A, Kinealy B, Zeitler D, Adkins D, Shinn J, Cline T, Board R. Readability and Quality of Online Health Information about Cochlear Implants and Hearing Aids. CI2024 Spain, Las Palmas, Gran Canaria, Spain.
- 30. 06/2024 **Bush M,** Adkins D, Phuong A, Cline T, Shinn J. Tools for Telehealth: A Correlational Analysis of App-Based Hearing Testing. HEAL 2024. Cernobbio, Lake Como, Italy.
- 31. 06/2024 **Bush M,** Nix E, Willgruber A, Kinealy B, Zeitler D, Adkins D, Shinn J, Cline T, Board R. Readability and Quality of Online Health Information about Cochlear Implants and Hearing Aids. HEAL 2024. Cernobbio, Lake Como, Italy.
- 32. 06/2024 **Bush M,** Heltsley C, Bernard J, Adkins D, Mahairas A. Analyzing the Relationship between Hearing Loss and Physical Activity: A Scoping Review. HEAL 2024. Cernobbio, Lake Como, Italy.
- 33. 06/2024 **Bush M,** Patel M, Adkins D, Bellnier L, Mahairas A. Assessment of Hearing Health Among Adults in Rural Primary Care Clinics. HEAL 2024. Cernobbio, Lake Como, Italy.

#### XIV. RESEARCH & INTELLECTUAL CONTRIBUTIONS - continued

#### C. SPONSORED RESEARCH PROJECTS, GRANT & CONTRACT ACTIVITIES

#### **Active**

**Project Title:** Appalachian STAR Trial (AppSTAR)

**Project Number:** U01DC021719

Principal Investigator(s): Matthew Bush, MD, PhD, MBA and Susan Emmett, MD, MPH

**Role in Project:** Co-PI

**Effort:** 20% (Y1-Y5)

**Institution/University:** University of Arkansas (Subaward to the University of Kentucky)

**Source of Funding:** NIH (OD/NIDCD) (U01) (Extramural)

**Duration of Project:** 9/23/2021 - 9/24/2026

**Total Award:** \$5,143,363

**Project Title:** Appalachian STAR Trial – Diversity Supplement

Project Number: U01DC021719-04S1

Principal Investigator(s): Matthew Bush, MD, PhD, MBA and Susan Emmett, MD, MPH

**Role in Project:** Co-PI

**Effort:** No funded effort

**Institution/University:** University of Arkansas

**Source of Funding:** NIH (OD/NIDCD) (U01) (Extramural)

**Duration of Project:** 5/15/2022 –8/31/2025

**Total Award:** \$362,886

**Project Title:** Hearing Healthcare Assessment in Rural Communities (HHARC)

**Project Number:** R21/R33 DC019602

Principal Investigator(s): Matthew Bush, MD, PhD, MBA

**Role in Project:** PI

**Effort:** 15% (Y1-Y2), 20% (Y3-Y5) **Institution/University:** University of Kentucky

**Source of Funding:** NIH (NIDCD) (R21/R33) (Extramural)

**Duration of Project:** 7/1/2021 - 6/30/2026

**Total Award:** \$1,908,067

**Project Title:** Communities Helping the Hearing of Infants by Reaching Parents:

The CHHIRP Navigator Trial

**Project Number:** R01DC017770

Principal Investigator(s): Matthew Bush, MD, PhD, MBA

**Role in Project:** PI **Effort:** 30%

**Institution/University:** University of Kentucky

**Source of Funding:** NIH (NIDCD and OD) (R01) (Extramural)

**Duration of Project:** 04/2019-03/2026 (NCE phase)

**Total Award:** \$3,172,743

**Project Title:** Institutional Career Development Core (CCTS)

**Project Number:** 5KL2TR001996

Principal Investigator(s): Matthew Bush, MD, PhD, MBA and Thomas Kelly, PhD

**Role in Project:** Co-PI **Effort:** 10%

Institution/University: University of Kentucky
Source of Funding: NIH (NCATS) (Extramural)

**Duration of Project:** 09/2016-06/2026 **Total Award:** \$6,227,766

#### XIV. RESEARCH & INTELLECTUAL CONTRIBUTIONS - continued

# C. SPONSORED RESEARCH PROJECTS, GRANT & CONTRACT ACTIVITIES – continued

#### **Inactive**

**Project Title:** Behavioral Parent Training for Families with Deaf and Hard of

**Hearing Preschoolers** 

**Project Number:** R01DC016957

**Principal Investigator(s):** Christina Studts, PhD (Sub-award PI: Julie Jacobs, MPH)

**Role in Project:** Co-Investigator

**Effort:** 5%

**Institution/University:** University of Colorado (Sub-award to University of Kentucky)

**Source of Funding:** NIH (NIDCD) (Extramural)

 Duration of Project:
 06/2018-05/2023

 Total Award:
 \$3,932,390

 Grant Number:
 3200003140

**Project Title:** The University of Kentucky Translation of Research Interventions

in Practice, Populations, and Policy Leadership (TRIPPPLe) Team

Alliance

Principal Investigator(s): Matthew Bush, MD, PhD, Nancy Schoenberg, PhD, Hannah

Knudsen, PhD

**Role in Project:** Co-PI

**Effort:** No funded effort

**Institution/University:** University of Kentucky

**Source of Funding:** University of Kentucky College of Medicine

**Duration of Project:** 08/2020-07/2022

Total Award: \$200,000 Grant Number: TBD

**Project Title:** COVID-19 Effects on Children who are Deaf or Hard of Hearing

and their Families: Rapid and Rigorous Mixed-Methods Research

to Inform Care

**Project Number:** 7R01 DC016975-03

**Principal Investigator(s):** Christina Studts, PhD (Sub-award PI: Julie Jacobs, MPH)

**Role in Project:** Co-Investigator

**Effort:** 2.5%

**Institution/University:** University of Colorado (Sub-award to University of Kentucky)

**Source of Funding:** NIH (NIDCD) (Extramural)

**Duration of Project:** 06/2020-05/2021

Total Award: \$74,245 Grant Number: TBD **Project Title:** STINCKY: Smell Testing for Infection with Novel Coronavirus in

Kentucky

**Project Number:** N/A

Principal Investigator(s): Joel Hamm, MD
Role in Project: Co-Investigator
No funded effort

**Institution/University:** University of Kentucky

**Source of Funding:** UK Cure Alliance Pilot Program

**Duration of Project:** 7/1/2020 - 12/31/2020

Total Award: \$16,915 Grant Number: TBD

**Project Title:** In vitro and in vivo response to HDAC inhibitors by vestibular

schwannomas

Principal Investigator(s): Matthew Bush, MD, PhD

**Role in Project:** PI

**Effort:** No salary support

**Institution/University:** The Ohio State University

**Source of Funding:** American Hearing Research Foundation Wiley H. Harrison Grant

AAO-HNS CORE grant (Extramural)

**Duration of Project:** 07/2009-12/2010

**Total Award:** \$25,000

**Project Title:** Pediatric Hearing Loss in Rural Appalachia: Assessment of

Successful Identification and Timely Intervention

Principal Investigator(s): Matthew Bush, MD, PhD

**Role in Project:** PI

Effort: No salary support University: University of Kentucky

**Source of Funding:** NIH Health Disparities Loan Repayment Award (Extramural)

**Duration of Project:** 10/2012-10/2014

**Total Award:** Medical School Educational Loan Repayment

**Project Title:** Bridging the Gaps: Assessment of Pediatric Hearing Loss in

Appalachia

Project Number: 8KL2TR000116
Principal Investigator(s): Philip Kern, MD
Role in Project: KL2 Scholar

**Effort:** 50%

**Institution/University:** University of Kentucky

Source of Funding: NIH (NCATS)
Duration of Project: 07/2012-02/2015
Grant Number: 3049025063

**Project Title:** Resources for Mentorship of Clinician Scientists in Hearing and

Balance Disorders

**Project Number:** 1U24DC012079 **Principal Investigator(s):** Deb Tucci, MD

**Role in Project:** Mentorship Program Mentee

**Effort:** No Salary Support **Institution/University:** Duke University

**Source of Funding:** NIH (NIDCD) (Extramural)

**Duration of Project:** 11/2012-11/2015

**Project Title:** Promoting Early Diagnosis of Congenital Hearing Loss through

Patient Navigation

Principal Investigator(s): Matthew Bush, MD, PhD

**Role in Project:** PI **Effort:** 8%

**Institution/University:** University of Kentucky

**Source of Funding:** AAO-HNSF/Triological Society Career Development Award

(Extramural)

**Duration of Project:** 08/2014-07/2016

**Total Award:** \$40,000 **Grant Number:** 3048111555

**Project Title:** Assessing and Addressing Disruptive Behavioral Problems in

Children with Hearing Loss

Project Number: <u>UL1TR000117 (PI: Kern)</u>

Principal Investigator(s): Tina Studts, PhD/Matthew Bush, MD, PhD

**Role in Project:** Co-PI

**Effort:** No salary support

**Institution/University:** University of Kentucky

**Source of Funding:** University of Kentucky CCTS Junior Investigator Pilot Award

(Intramural)

**Duration of Project:** 02/2015-08/2016

**Total Award:** \$25,000 **Grant Number:** 1012142740

**Project Title:** Promoting Early Diagnosis of Congenital Hearing Loss through

Patient Navigation

**Project Number:** 1K23DC014074

Principal Investigator(s): Matthew Bush, MD, PhD

**Role in Project:** PI **Effort:** 50%

Institution/University: University of Kentucky
Source of Funding: NIH (NIDCD) (Extramural)

**Duration of Project:** 03/2015-03/2019

**Total Award:** \$685,149 **Grant Number:** 3048112341

**Project Title:** Hearing Rehabilitation and the Progression of Cognitive Decline in

the Elderly

**Project Number:** UL1TR000117 (PI: Kern)

Principal Investigator(s): Beth McNulty, MD
Role in Project: Co-Investigator
Effort: No salary support
University of Kentucky

**Source of Funding:** University of Kentucky CCTS Pilot Award (Intramural)

**Duration of Project:** 06/2017-06/2018

**Total Award:** \$25,000

**Project Title:** Implantation of the HiRes90K<sup>TM</sup> Advantage Cochlear Implant with

HiFocus<sup>TM</sup> Mid-Scala and Development of a Combined Electric and Acoustic Stimulation Technology in Adults with Partial

Deafness

**Project Number:** CR0114

Principal Investigator(s): Matthew Bush, MD, PhD

Role in Project: Study site PI
Effort: No salary support
University: University of Kentucky

**Source of Funding:** Advanced Bionics (Extramural)

**Duration of Project:** 02/2016-02/2018

**Total Award:** \$97,939 **Grant Number:** 3048112980

**Project Title:** Adaptation and Pilot Implementation of the Family Check-Up for

Deaf and Hard of Hearing Children

**Project Number:** <u>UL1TR000117 (PI: Kern)</u>

Principal Investigator(s): Christina Studts, PhD/Matthew Bush, MD, PhD

**Role in Project:** Co-PI

**Effort:** No salary support **Institution/University:** University of Kentucky

Source of Funding: University of Kentucky College of Medicine (VI<sup>2</sup>P Grant Program)

**Duration of Project:** 08/2017-04/2019

**Total Award:** \$100,000

#### XIV. RESEARCH & INTELLECTUAL CONTRIBUTIONS - continued

#### **D. NON-SPONSORED RESEARCH PROJECTS**

**Project Title:** Pulmonary and Critical Care Biobank

**Project Number:** IRB# 44204

**Principal Investigator(s):** Jamie Sturgill, PhD **Role in Project:** Co-investigator

**Date Started:** 04/2018 **Date to be Completed:** 03/2023

**Institution/University:** University of Kentucky

**Project Title:** Parental Readiness for Telehealth

**Project Number:** IRB# 46395

**Principal Investigator(s):** Julie Lowman, PhD **Role in Project:** Co-investigator

**Date Started:** 08/2018 **Date to be Completed:** 08/2020

**Institution/University:** University of Kentucky

**Project Title:** Factors Affecting In-Training Examination Scores of Residents

**Project Number:** IRB# 42735

Principal Investigator(s): Brett Comer, MD
Role in Project: Co-investigator

**Date Started:** 12/2017 **Date to be Completed:** 11/2020

**Institution/University:** University of Kentucky

**Project Title:** Validity, Reliability, and Accuracy of Audiological iOS

Applications as Screening Tools for Hearing Loss in the Primary

Care Setting

**Project Number:** IRB# 45467

Principal Investigator(s): Jennifer Shinn, PhD
Role in Project: Co-investigator

**Date Started:** 09/2018 **Date to be Completed:** 08/2020

**Institution/University:** University of Kentucky

**Project Title:** Diagnosis of Noise-Induced Hidden Hearing Loss

**Project Number:** IRB# 47746

**Principal Investigator(s):** Jennifer Shinn, PhD **Role in Project:** Co-investigator

**Date Started:** 12/2018 **Date to be Completed:** 10/2020

**Institution/University:** University of Kentucky

**Project Title:** Factors Affecting Clinical Compliance Rates in the

Otolaryngology Academic Setting

Project Number: IRB# 46381

Principal Investigator(s): Matthew Bush, MD, PhD

**Role in Project:** PI

**Date Started:** 08/2018 **Date to be Completed:** 06/2021

**Institution/University:** University of Kentucky

**Project Title:** Pediatric Otolaryngology Outcomes

Project Number: IRB# 56428
Principal Investigator(s): Chris Azbell, MD
Role in Project: Co-investigator

Date Started: 01/2020
Date to be Completed: 01/2021

**Institution/University:** University of Kentucky

**Project Title:** COVID-19 Impact on Adults Who are Hard of Hearing

**Project Number:** IRB# 59581

Principal Investigator(s): Matthew Bush, MD, PhD

**Role in Project:** PI

**Date Started:** 05/2020 **Date to be Completed:** 05/2026

**Institution/University:** University of Kentucky

**Project Title:** COVID-19 Mucosal Prophylaxis Using Povidone-Iodine

**Project Number:** IRB# 58748

Principal Investigator(s): Alexandra Kejner, MD

**Role in Project:** Co-investigator

**Date Started:** 04/2020 **Date to be Completed:** 04/2021

**Institution/University:** University of Kentucky

**Project Title:** Assessment of International Collaboration on Education and

Patient Outcomes: A Study of Neurotology in Kenya

Project Number: IRB# 45313

Principal Investigator(s): Matthew Bush, MD, PhD

**Role in Project:** PI

**Date Started:** 06/2018 **Date Completed:** 06/2019

**Institution/University:** University of Kentucky/University of Nairobi (Kenya)

**Title:** Comparison of Patient & Provider Outcomes with In-Person versus

Remote Cochlear Implant Candidacy Evaluations

**Project Number:** IRB# 45754

Principal Investigator(s): Matthew Bush, MD, PhD

**Role in Project:** PI

**Date Started:** 06/2018 **Date Completed:** 06/2019

**Institution/University:** University of Kentucky

Title: Understanding Adult Perspectives Regarding Hearing Healthcare

**Project Number:** IRB# 43842

Principal Investigator(s): Matthew Bush, MD, PhD

**Role in Project:** PI

Date Started:05/2018Date Completed:02/2020

**Institution/University:** University of Kentucky

Title: The Use of Magnetic Resonance Spectroscopy in Monitoring

Benign Cerebellopontine Angle Tumor Growth and Treatment

Effect

**Project Number:** IRB# 46396

Principal Investigator(s): Matthew Bush, MD, PhD

**Role in Project:** PI

**Date Started:** 08/2018 **Date Completed:** 04/2020

**Institution/University:** University of Kentucky

#### XIV. RESEARCH & INTELLECTUAL CONTRIBUTIONS - continued

#### **E. OTHER CREATIVE ACTIVITIES**

**University of Kentucky CE Central** 

07/2015-present

Designer and Developer, **Online Center for Hearing Health** Educational program to provide providers and patients information regarding pediatric hearing loss. Currently being used to train patient navigators for NIH-funded intervention study.

https://www.cecentral.com/node/1559

Commonwealth Colloquium on Hearing and Balance: Practice and Policy, Commonwealth Stadium, Lexington, KY

09/08/2018-present

Co-organizer and Co-chair

Multi-disciplinary conference focused on the following objectives:

- 1) Discuss solutions for patients with hearing loss,
- 2) Identify new hearing healthcare policies influencing practice
- 3) Assess the impact of aging on hearing loss https://www.cecentral.com/live/14299

### XV. OTHER ACTIVITIES

**Project Ear, Inc** 

01/2007 Surgical Team Member

Team member on a humanitarian mission team to Dominican Republic. Participated in surgical management of patients with ear

diseases.

10/2008 Surgical Team Member

Team member on a humanitarian mission team to Dominican Republic. Participated in surgical management of patients with ear

diseases.

Hear the Music Event - Lexington Event, Songs for Sound

10/2014 Coordinator and Host

Coordinated a non-profit event in conjunction with Songs for Sound to support the pediatric cochlear implant program at the

University of Kentucky

Hear the Music Event - Lexington Event, Songs for Sound

11/2015 Coordinator and Host

Coordinated a non-profit event in conjunction with Songs for Sound to support the pediatric cochlear implant program at the University of Kentucky. <a href="http://uknow.uky.edu/content/music-their-ears-musicians-join-uk-patients-and-faculty-raise-awareness-">http://uknow.uky.edu/content/music-their-ears-musicians-join-uk-patients-and-faculty-raise-awareness-</a>

pediatric-cochlear-i

Hear the Music - Lexington Event, Songs for Sound

11/2016 Coordinator and Host

Coordinated a non-profit event in conjunction with Songs for Sound to support the pediatric cochlear implant program at the University of Kentucky. <a href="http://ukhealthcare.net/blog/songs-for-">http://ukhealthcare.net/blog/songs-for-</a>

sound-event-cochlear-implant/

Med El Surgical Advisory Board Meeting, Lexington, KY

08/2019 Host

Coordinating host for the annual North America surgical advisory board meeting for a major cochlear implant company, Med El Inc.

Sikiza Society, Inc (501c3 Non-Profit Organization)

02/2020-12/2023 Founder and President of Board of Directors

Sikiza Society is a non-profit organization focused on developing international collaborations to promote global health through research, education and clinical care. This organization has a foundation from a long-term collaborative relationship between Otolaryngologists from the University of Kentucky and the University of Nairobi.

03/2022	Hearing Healthcare Collaborative Collaborative Member
06/2022	Cochlear Implant: Pediatric Access to Hearing (CI:PATH) Collaborative Initiative Member

# **END OF DOCUMENT**