

## **CURRICULUM VITAE**

### **David R. Friedland MD**

**Associate Director, Director, Chief, Professor  
Department of Otolaryngology**

#### **OFFICE ADDRESS:**

Hub for Collaborative Medicine  
8701 Watertown Plank Road  
Milwaukee, WI 53226

#### **EDUCATION:**

09/1983 - 06/1987 B.A., Chemistry, University of Chicago, Chicago, IL  
07/1987 - 05/1995 M.D. Mount Sinai School of Medicine, New York, NY  
07/1987 - 10/1993 Ph.D., City University of New York, New York, NY

#### **POSTGRADUATE TRAINING AND FELLOWSHIP APPOINTMENTS:**

07/1995 - 06/1996 Intern, General Surgery, Mount Sinai School of Medicine, New York, NY  
07/1996 - 06/1999 Resident, Otolaryngology, Mount Sinai School of Medicine, New York, NY  
07/1999 - 06/2000 Chief Resident, Otolaryngology, Mount Sinai School of Medicine, New York, NY  
07/2000 - 06/2002 Fellow, Otolaryngology, Neurotology and Skull Base Surgery, Johns Hopkins University School of Medicine, Baltimore, MD

#### **FACULTY APPOINTMENTS:**

07/2002 - 06/2006 Assistant Professor, Department of Otolaryngology and Communications Sciences, Division of Otolaryngology and Neuro-otologic Skull Base Surgery, Medical College of Wisconsin, Milwaukee, WI  
07/2006 - 07/2011 Associate Professor, Department of Otolaryngology and Communication Sciences, Division of Otolaryngology and Neuro-otologic Skull Base Surgery, Medical College of Wisconsin, Milwaukee, WI  
07/2011 - Present Professor, Otolaryngology and Communication Sciences, Otolaryngology and Neuro-otologic Skull Base Surgery, Medical College of Wisconsin, Milwaukee, WI

#### **ADMINISTRATIVE APPOINTMENTS:**

07/2000 - 06/2001 Staff Attending, Department of Surgery, Ambulatory Care/ Otolaryngology, Jamaica Hospital Medical Center, Queens, NY  
07/2002 - 06/30/2022 Staff Physician, Consultant Care Services, Department of Surgery, Otolaryngology, Zablocki VA Medical Center, Milwaukee, WI  
01/2008 - 06/30/2022 Chief, Department of Otolaryngology and Communication Sciences, Division of Otolaryngology and Neuro-otologic Skull Base Surgery, Medical College of Wisconsin, WI  
04/2009 - Present Chief, Department of Otolaryngology and Communication Sciences, Division of Research, Medical College of Wisconsin, WI  
12/2011 - Present Vice-Chairman, Department of Otolaryngology and Communication Sciences, Medical College of Wisconsin  
04/01/2022 - Present Associate Director, CTSI, Medical College of Wisconsin  
04/01/2022 - Present Director, Clinical & Translational Research Center, CTSI

#### **EDUCATIONAL ADMINISTRATIVE APPOINTMENTS:**

07/2003 - 06/2022 Director, Resident Otolaryngology Core Curriculum, Department of Otolaryngology and Communication Sciences, Medical College of Wisconsin, WI  
10/2003 - 06/2018 Director, Temporal Bone Laboratory, Department of Otolaryngology and Communication,

Medical College of Wisconsin, WI

**HOSPITAL AND CLINICAL ADMINISTRATIVE APPOINTMENTS:**

07/2003 - Present Director, Vestibular Disorders Program, Froedtert Hospital  
07/2005 - 04/2009 Chairperson, Patient Care Committee, Department of Otolaryngology and Communication Sciences, Medical College of Wisconsin, WI  
04/2009 - 06/2009 Chairperson, Clinical Care Committee, Department of Otolaryngology and Communication Sciences, Medical College of Wisconsin, WI  
04/2009 - 06/2009 Director, Froedtert/MCW Clinic Operations, Department of Otolaryngology and Communication Sciences, Medical College of Wisconsin, WI  
04/2010 - 06/2022 Medical Director, Koss Cochlear Implant Program, Department of Otolaryngology and Communication Sciences, WI  
07/2010 - Present Member, Otolaryngology Leadership Committee, Department of Otolaryngology and Communication Sciences, Medical College of Wisconsin, WI  
01/2018 - 03/2022 Medical Director, ENT Adult Practice, Otolaryngology and Communication Sciences, Froedtert & MCW

**RESEARCH ADMINISTRATIVE APPOINTMENTS:**

04/01/2009 - Present Chief, Otolaryngology and Communication Sciences, Division of Research, Medical College of Wisconsin

**HOSPITAL STAFF PRIVILEGES:**

07/2002 - Present Froedtert Hospital, 9200 W. Wisconsin Ave., Milwaukee, WI  
07/2002 - Present Children's Hospital of Wisconsin, 9000 W. Wisconsin Ave., Milwaukee, WI  
07/2002 - 06/2022 Zablocki V.A. Medical Center, 9000 W. National Ave, Milwaukee, WI  
10/2008 - 06/2011 Waukesha Memorial Hospital, 725 American Ave, Waukesha, WI

**SPECIALTY BOARDS AND CERTIFICATION:**

<u>Board Certified</u>	<u>Issue Date</u>	<u>Expiration</u>
American Board of Otolaryngology	05/2001	None
Neurotology Specialty Boards - ABOto	06/2010	06/2030

<u>Certificates</u>	<u>Issued By</u>	<u>Issue Date</u>	<u>Expiration</u>
Faculty Leadership Development Program	UWM- Sheldon Lubar School of Business	03/06/2013	None
Lean Healthcare Certification	University of Michigan	10/11/2013	None
NCBI Leadership for Social Inclusion and Equity	NCBI: National Coalition Building Institute	05/18/2015	None
Change Management	Prosci: Change Management Learning Center	06/04/2015	None
Level Loading	MCP Transformation Office	05/11/2021	None
Introduction to Resistance Management	MCP Transformation Office	06/16/2022	None

<u>Licensure</u>	<u>Number</u>	<u>Issue Date</u>	<u>Expiration</u>
New York Licensure	204685	07/1996	09/2002
Maryland Licensure	D0057440	07/2001	09/2002
Wisconsin Licensure	44333-020	04/2002	11/2011

**AWARDS AND HONORS:**

06/1984 Dean's List, University of Chicago  
06/1986 - 06/1987 Dean's List, University of Chicago  
06/1987 Graduation with Honors, University of Chicago  
12/1994 Alpha Omega Alpha, Mount Sinai School of Medicine  
05/1995 Lange Medical Publications Award, Mount Sinai School of Medicine  
09/1998 Ortho-McNeil Resident Travel Award, American Academy of Otolaryngology  
02/2001 Post-Doctoral Fellows Travel-Grant Award, Association for Research in Otolaryngology  
02/2002 Post-Doctoral Fellows Travel-Grant Award, Association for Research in Otolaryngology  
06/2003 Faculty Teaching Award, Medical College of Wisconsin  
2004 - 2014 America's Top Physicians, Consumer Research Council of America  
2005 - 2014 Best Doctors in America, Best Doctors Inc.  
09/2006 Honors Awardee, American Academy of Otolaryngology-HNSF  
01/2009 George L. Adams MD Young Faculty Award, The Triological Society Middle Section  
01/2009 First Place Poster Presentation, The Triological Society Middle Section  
05/2009 Honorable Mention for Clinical Research, The Triological Society Thesis Committee  
2010 Certificate of Appreciation, State of Wisconsin, Examining Board Service  
06/2012 - 09/2012 Carolyn L. Kuckein Student Research Fellowship - Tanner Fullmer (Runge/Friedland mentors), Alpha Omega Alpha  
2014 - 2015 Outstanding Medical Student Teacher, Medical College of Wisconsin  
2015 - 2016 Outstanding Medical Student Teacher, Medical College of Wisconsin  
2015 - 2016 Outstanding Graduate Student Teacher, Medical College of Wisconsin  
10/2018 Distinguished Service Award, American Academy of Otolaryngology-HNSF  
2019 - 2020 Outstanding Medical Student Teacher, Medical College of Wisconsin  
07/2020 Faculty Service Award, Medical College of Wisconsin  
06/2021 Outstanding Faculty Service Award, Medical College of Wisconsin

**MEMBERSHIPS IN HONORARY AND PROFESSIONAL SOCIETIES:**

1989 - 1994 New York Academy of Sciences  
1994 - Present Alpha Omega Alpha Medical Honor Society  
1996 - Present AAO-HNSF (Member)  
2000 - 2012 Association for Research in Otolaryngology  
2000 - 2002 American Medical Association  
2001 - Present American Board of Otolaryngology  
2002 - Present Wisconsin Society of Otolaryngology-HNS  
2002 - 2014 Milwaukee Society of Otolaryngology-HNS  
2004 - 2009 The Triological Society (Candidate)  
2005 - 2008 Society of University Otolaryngologists  
2006 - 2008 American Association of Anatomists  
2008 - Present American Neurotology Society  
2009 - Present The Triological Society (Member)  
2009 - 2011 American Auditory Society  
2011 - Present American Otological Society

**EDITORSHIPS/EDITORIAL BOARDS/JOURNAL REVIEWS:**

Editorship  
04/2006 The Anatomical Record, Special Issue, Structure and Function in the Auditory System  
06/2008 Reader's Digest "Disease Free"  
Editorial Board  
12/2008 - 06/2014 Trends in Amplification  
01/2010 - 2019 Anatomical Record  
11/2016 - Present Otology and Neurotology  
01/01/2023 - Present Anatomical Record  
Journal Review  
Brain Structure and Function

JARO  
 Otolaryngology Head Neck Surgery  
 Annals of Otolaryngology  
 Audiology and Neurotology  
 BMC Ear Nose Throat Disorders  
 Ear and Hearing  
 International Journal of Otolaryngology  
 Saudi Medical Journal  
 Eastern Journal of Medicine  
 Pediatrics  
 Herz  
 Archives of Gerontology and Geriatrics  
 International Journal of Audiology  
 PLOS One  
 Atherosclerosis  
 Anatomy and Embryology  
 The Laryngoscope  
 European Journal of Pediatrics  
 Otology and Neurotology  
 Archives of Otolaryngology  
 Journal of Histochemistry and Cytochemistry  
 Ophthalmic Plastic and Reconstructive Surgery

**LOCAL/REGIONAL APPOINTED LEADERSHIP AND COMMITTEE POSITIONS:**

10/2004 - 10/2005 Member-at-large, elected position, Wisconsin Society of Otolaryngology-HNS  
 07/2005 - 10/2005 Interim Secretary-Treasurer, Appointed, Wisconsin Society of Otolaryngology-HNS  
 09/2005 - 12/2009 Otolaryngology Representative, Hearing and Speech Examining Board, State of Wisconsin, Governor's Appointee  
 10/2005 - 10/2010 Secretary-Treasurer, Elected, Wisconsin Society of Otolaryngology-HNS

**NATIONAL ELECTED/APPOINTED LEADERSHIP AND COMMITTEE POSITIONS:**

09/1997 - 08/1998 Northeast Regional Co-Representative, Committee on Residents and Fellows in Training, American Academy of Otolaryngology-HNSF  
 09/1997 - 08/1999 Secretary, Committee on Residents and Fellows in Training, American Academy of Otolaryngology-HNSF  
 09/1998 - 09/1999 Resident Forum Coordinator, Committee on Residents and Fellows in Training, American Academy of Otolaryngology-HNSF  
 09/1999 - 09/2000 Vice-Chair, Committee on Residents and Fellows in Training, American Academy of Otolaryngology-HNSF  
 03/2003 Member, Ad Hoc Evidence-Based Medicine Committee-Otology, American Academy of Otolaryngology-HNSF  
 09/2003 - 2011 Member, Research Grants and Prizes Subcommittee, American Academy of Otolaryngology-HNSF  
 07/2004 Reviewer, Special Emphasis Panel, SBIR, National Institutes of Health  
 07/2005 Reviewer, Special Emphasis Panel, SBIR, National Institutes of Health  
 03/2006 - 02/2009 Chairperson, Physician Research Training Committee, Association for Research in Otolaryngology  
 09/2006 - 2015 Member, Research Committee, American Hearing Research Foundation  
 10/2007 Ad Hoc Reviewer, Special Emphasis Panel, National Institutes of Health  
 10/2007 - 09/2009 Member, Technology Infrastructure Committee, American Academy of Otolaryngology-HNSF  
 03/2008 - 02/2010 Member, Membership Committee, Association for Research in Otolaryngology  
 07/2008 - 06/2009 Member, Scientific Program Committee, American Neurotology Society  
 07/2009 - 2011 Member, Otology and Neurotology Education Cmte, American Academy of Otolaryngology-HNSF  
 04/2010 - 03/2011 Chair-Elect, Otology CORE Section, Research Grants and Prizes Subcommittee, American Academy of Otolaryngology-HNSF

04/2011 - 2015 Chair, Otology CORE Section, Research Grants and Prizes Subcommittee, American Academy of Otolaryngology-HNSF  
 05/2013 Examiner, Otolaryngology Board Examiner, ABOto  
 05/2014 Examiner, Otolaryngology Board Examiner, ABOto  
 05/2014 Examiner, Neurotology Board Examiner, ABOto  
 07/2014 - 06/2015 Member, AOS Program Advisory Committee, American Otological Society  
 09/2014 - 08/2019 Member, ANS Education Committee, American Neurotology Society  
 04/2015 Poster Judge, ANS/AOS  
 04/08/2017 - 04/09/2017 Examiner, American Board of Otolaryngology  
 04/15/2017 - 12/31/2022 Senior Examiner, American Board of Otolaryngology  
 04/2018 - 06/2020 Membership Liaison, American Otological Society  
 05/2020 - 06/2021 Chairperson, Nominating Committee, American Otological Society  
 07/01/2022 - Present Member, Council, American Otological Society  
 07/01/2023 - Present Secretary-Treasurer, American Otological Society

## RESEARCH GRANTS/AWARDS/CONTRACTS/PROJECTS:

### Active

#### Peer Review

Title:	OTO Clinomics: A Precision Health and Outcomes Program in Otolaryngology
Source:	Advancing a Healthier Wisconsin Endowment: Research and Education Program
Role:	Principal Investigator
Dates:	01/01/2020 - 12/31/2024
Direct Funds:	\$1,200,000

### Pending

#### Peer Review

Title:	AWARDED: Development of a novel human-in-the-loop explainable artificial intelligence method for clinical decision support
Source:	CTSI Pilot-Biostatistics, Epidemiology, and Research Design (BERD) Methodological Innovation Award
Role:	PI
PI:	David R Friedland
Dates:	07/01/2024 - 06/30/2025
Direct Funds:	\$25,000
Title:	UNDER REVIEW: Leveraging Explainable AI for Personalized Fall Risk Assessment and Prevention in Older Adults
Source:	NIDCD
Role:	co-PI
PI:	David R. Friedland / Jake Luo
Dates:	09/01/2024 - 08/31/2026
Direct Funds:	\$500,000

### Prior

#### Peer Review

Title:	Development of Auditory Nerve Endings
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Source:	in Humans American Academy of Otolaryngology- HNS / American Neurotology Society; Herbert Silverstein Neurotology Award
Role:	Principal Investigator
Dates:	07/01/2000 - 06/30/2002
Direct Funds:	\$30,000
Title:	Differential Gene Expression in the Cochlear Nucleus
Source:	The Triological Society Career Development Award
Role:	Principal Investigator
Dates:	08/01/2003 - 07/31/2004
Direct Funds:	\$40,000
Title:	Differential Gene Expression in the Cochlear Nucleus
Source:	National Institutes on Deafness and Other Communication Disorders NIDCD/NIH
Role:	Principal Investigator (1 K08 DC006227-01A1)
Dates:	04/01/2004 - 03/31/2010
Direct Funds:	\$941,425 (no cost extension)
Title:	Clinical Correlation between Strial Presbycusis and Cardiovascular
Source:	American Academy of Otolaryngology - Head and Neck Surgery Foundation CORE Grant Award
Role:	Faculty Mentor and Principal Investigator
Dates:	07/01/2007 - 06/30/2009
Direct Funds:	\$10,000
Title:	MicroRNA Regulation of Cholesteatoma Growth
Source:	National Institutes on Deafness and Other Communication Disorders NIDCD/NIH
Role:	Principal Investigator (R21 DC010038-01A1)
Dates:	04/01/2010 - 03/31/2012
Direct Funds:	\$275,000
Title:	Vestibular Disorders Quality Improvement
Source:	National Center for Advancing Translational Sciences, 8UL1TR000055
Role:	PI
PI:	David R. Friedland
Dates:	08/01/2013 - 07/31/2014
Direct Funds:	\$25,000
Title:	MRI of Inner Ear
Source:	Daniel M. Soref Charitable Trust

Role:	PI
Dates:	01/01/2015 - 12/31/2015
Direct Funds:	\$7,500
Title:	Development of a Clinical Decision Support System for the Diagnosis of Benign Paroxysmal Positional Vertigo (BPPV)
Source:	CTSI AHW Research and Education Program
Role:	co-PI
PI:	David R. Friedland
Dates:	04/01/2017 - 03/31/2018
Direct Funds:	\$50,000
Title:	Development of a Clinical Decision Support System for the Diagnosis of Benign Paroxysmal Positional Vertigo (BPPV)
Source:	CTSI AHW Mobility Award
Role:	co-PI
PI:	David R. Friedland
Dates:	07/01/2018 - 03/31/2019
Direct Funds:	\$25,000

#### **Non-Peer Review**

Title:	Safety and Effectiveness of Cortical Stimulation in the Treatment of Tinnitus
Source:	Northstar Neuroscience, Inc.
Role:	Principal Investigator
Dates:	08/01/2005 - 06/30/2007
Direct Funds:	\$451,448
Title:	Collaborative Cochlear Implant Research
Source:	University of Wisconsin - Milwaukee
Role:	Collaborator
Dates:	05/01/2010 - 12/31/2011
Direct Funds:	\$20,000
Title:	Evaluation of Performance with the Med El Cochlear Implant
Source:	Med-El Corporation
Role:	Co-Principal Investigator with Christina L. Runge, PhD
Dates:	05/01/2010 - 06/30/2017
Direct Funds:	\$703,543
Title:	Management of Conductive Hearing Loss Due to Ossicular Chain Disruption in the Setting of Temporal Bone Trauma FMLH#: 05-175 HRR#: 383-05
Source:	Toohill Resident Research Fund
Role:	Principal Investigator
Title:	Pupillometry in Autonomic Nervous System Testing FMLH#: 03-174

	HRRC#: 355-03
Role:	Principal Investigator
Title:	Pupillary Dynamics in Otolaryngology Disorders FMLH#: 03-115 HRRC#: 244-03
Source:	Intramural Research Fund and Toohill Research Fund
Role:	Principal Investigator
Title:	Association between Sensorineural Hearing Loss and Hypertension FMLH#: 05-041 HRRC#: 109-05
Source:	Department of Otolaryngology
Role:	Principal Investigator

### **INVITED LECTURES/WORKSHOPS/PRESENTATIONS:**

#### **Local**

Friedland, D.R., Post-Doctoral Options and Career Paths, MSTP Retreat, Medical College of Wisconsin, Waukesha, WI, 10/2005

Mauck, M., Friedland D.R., The Vestibular System: Integrating Basic Science with Clinical Disorders, MSTP Summer Grand Rounds; SPUR Program, Milwaukee, WI, 06/2006

Friedland D.R., Tinnitus: Central Auditory Plasticity and Modulation, Neurosurgery Grand Rounds, Milwaukee, WI, 01/2009

Friedland, D.R., Effective PowerPoint Presentations, Otolaryngology Grand Rounds, Milwaukee, WI, 02/2010

Friedland D.R., Effective Writing for Academia, Otolaryngology Grand Rounds, Milwaukee, WI, 03/2010

Friedland D.R., Approaches to the Petrous Apex, Neurosurgery Grand Rounds, Milwaukee, WI, 04/2011

Friedland D.R., Auditory Research at MCW, Biostatistics Seminar Series, Milwaukee, WI, 12/2012

Friedland D.R., Audiometric Pattern as a Predictor of Cardiovascular Status, Cardiology Grand Rounds, Milwaukee, WI, 01/2013

Friedland D.R., Petrous Apex Lesions and Surgical Approaches, Neurosurgery Grand Rounds, Milwaukee, WI, 11/2013

Friedland, D.R., Vestibular Disorders Quality Improvement, Neurology Grand Rounds, Milwaukee, WI, 11/2013

Friedland, D.R., Cochlear Implants and Implantable Devices, Pediatric Grand Rounds, Children's Hospital of Wisconsin, 10/09/2015

Friedland D.R., Vertigo and Dizziness, Sr. Physicians Alumni Symposium, Milwaukee, WI, 10/20/2015

Friedland D.R., Runge C.L., Maximizing Clinical Efficiency, Faculty Affairs Peer Mentoring Workshop, Milwaukee, WI, 10/22/2015

Friedland D.R., Vestibular Evaluation, Emergency Medicine Grand Rounds, Milwaukee, WI, 10/29/2015

Friedland D.R., Internal Auditory Canal Anatomy, Neurosurgery Skull Base Dissection Course, Medical College of Wisconsin, 11/03/2016

Friedland, D.R., Vestibular Disorders Quality Improvement, CTSI Research Seminar, Medical College of Wisconsin, 10/26/2017

Friedland, DR and Miles, A, Practical Evaluation of the Dizzy Patient, Neurology Grand Rounds, Medical College of Wisconsin, 10/12/2018

Friedland DR, Clinical Trials, 500 Stars, Milwaukee, WI, 07/07/2023

#### **Regional**

Friedland, D.R., Understanding Audiometric and Vestibular Testing of the Dizzy Patient, Wisconsin Speech and Hearing Association, Lake Geneva, WI, 09/2002

Friedland, D.R., Superior Canal Dehiscence and VEMPs, Wisconsin Speech and Hearing Association, Lake Geneva, WI, 09/2002

Friedland D.R., Evaluation of Hearing Loss and Tinnitus, Elmbrook Hospital Family Practice Grand Rounds, Waukesha, WI, 01/2003



Friedland, D.R., Vascular Causes of Vertigo: From Stroke to Migraine, Wisconsin Speech and Hearing Association, Madison, WI, 03/2003

Friedland, D.R., Vestibular Migraine: All the Spins is Not Meniere's, Milwaukee Society of Otolaryngology - HNS, Milwaukee, WI, 03/2004

Friedland, D.R., Gene-Based Therapies for Hearing Loss, Audiology Update, Wisconsin Speech and Hearing Association, Dells, WI, 09/2004

Friedland, D.R., Genetics and Hearing Loss: Welcome to the New Millennium, Society of Head and Neck Nurses, Southeast Wisconsin Chapter, Milwaukee, WI, 01/2005

Friedland, D.R., Dizziness and Tinnitus after Acoustic Neuroma Surgery, Acoustic Neuroma Association of Wisconsin, Milwaukee, WI, 09/2006

Friedland, D.R., Auditory Cortex Stimulation for the Treatment of Tinnitus, Milwaukee Society of Otolaryngology - HNS, Milwaukee, WI, 01/2007

Friedland, D.R., Otology Update, Wisconsin Society of Otolaryngology-Head and Neck Surgery, Lake Geneva, WI, 10/2007

Friedland, D.R., Dizziness and Imbalance, Columbia-St. Mary's Medical Staff Grand Rounds, Milwaukee, WI, 04/2008

Friedland, D.R., Cochlear Implants, Columbia-St. Mary's Medical Staff Grand Rounds, Milwaukee, WI, 09/2008

Friedland, D.R., Tinnitus: Novel Treatment Strategies, Wisconsin Speech and Hearing Association, Milwaukee, WI, 01/2009

Friedland, D.R., Evaluation and Management of Dizziness, Winter Refresher Course for Family Medicine, Waukesha, WI, 02/2009

Friedland, D.R., Effects of Age on Cochlear Implant Performance, WSHA Fall Update, Stevens Point, WI, 09/2009

Friedland, D.R., Music Perception and Cochlear Implantation, WSHA Fall Update, Stevens Point, WI, 09/2009

Friedland, D.R., Baha and VistaFix Surgery, WSHA Fall Update, Stevens Point, WI, 09/2009

Friedland, D.R., Middle Ear Implants, WSHA Fall Update, Stevens Point, WI, 09/2009

Friedland D.R., Evaluation and Management of Dizziness, Wheaton-Franciscan Family Practice Grand Rounds, Milwaukee, WI, 11/2009

Friedland, D.R. (Director), DIZZINESS: A Practical Approach to Evaluating and Managing the Patient with Vestibular Complaints, Vestibular Course for Professionals, Milwaukee, WI, 01/2010

Friedland D.R., Dizziness: Evaluation and Diagnosis, Columbia-St. Mary's Medical Grand Rounds, Milwaukee, WI, 03/2010

Friedland D.R., Hearing Rehabilitation in 2010 and Beyond, WSO-HNS, Great Wolf Resort, The Dells, WI, 10/2010

Friedland D.R. et al., Pediatric Audiology Update, WSHA Annual Meeting, Stevens Point, WI, 02/2011

Friedland D.R., Hearing Loss and Cardiovascular Disease, WUWM Lake Effect Radio Show, Milwaukee, WI, 10/2012

Friedland D.R., Guidelines for Cochlear Implantation in Children, WSO-HNS Annual Meeting, The Dells, WI, 10/24/2015

Friedland D.R., Vestibular Migraine and Other (Less Common) Vestibular Disorders, CSM Medical Grand Rounds, Milwaukee, WI, 11/03/2015

Friedland D.R., Vestibular Evaluation, SOHN Meeting, Milwaukee, WI, 11/12/2015

Friedland D.R., Vestibular Disorders: Practice Management, WSO-HNS, Lake Geneva, WI, 10/02/2016

Friedland D.R., Dizziness and Imbalance, Watertown Medical Center Medical Staff CME, 09/02/2021

### **National**

Friedland, D.R., Comparative Anatomy of Locomotion, Hunter College, City University of New York, New York, NY, 1992

Friedland, D.R., Cost Effectiveness Analyses of Infant Hearing Screening Protocols, Johns Hopkins University, Department of Otolaryngology Grand Rounds, Baltimore, MD, 09/1994

Friedland, D.R., Temporal Bone Anatomy, Mount Sinai School of Medicine M1 Course, New York, NY, 12/2001

Friedland, D.R., Evaluation of the Dizzy Patient, Society of Otorhinolaryngology - Head and Neck Nurses, Nashville, TN, 05/2003

Friedland D.R., VEMP Testing: A New Modality in Audiometric and Vestibular Evaluation, Kansas City

Otolaryngology and Ophthalmology Annual Meeting, Kansas City, KS, 01/2004

Friedland, D.R., Evaluation of the Dizzy Patient: Bedside and Clinic Exam, Kansas City Otolaryngology and Ophthalmology Annual Meeting, Kansas City, KS, 01/2004

Friedland, D.R., Panel Discussion; Sudden Hearing Loss: What Now?, Triological Society Middle Section Meeting, Chicago, IL, 01/2008

Friedland, D.R., The Atraumatic Cochleostomy and EAS Implant., Hearing Preservation Workshop VII, Kansas City, KS, 10/2008

Friedland, D.R., Audiometric Pattern as a Predictor of Cardiovascular Status, UCSF Grand Rounds, San Francisco, CA, 01/2009

Friedland, D.R., Baha and VistaFix, Univ Michigan Temporal Bone Course, Ann Arbor, MI, 09/2010

Friedland, D.R., Can an Audiogram Predict a Stroke: Audiometric Pattern as a Predictor of Cardiovascular Status, Univ Michigan Grand Rounds, Ann Arbor, MI, 09/2010

Friedland, D.R., Complications of Otitis Media, Univ Michigan Temporal Bone Course, Ann Arbor, MI, 09/2010

Friedland, D.R. (Co-Director and Organizer), Cochlear Implants: Beyond Speech Understanding, Full day national research forum, Milwaukee, WI, 05/2011

Friedland, D.R., Invited Host and Moderator, Med El Surgeons Advisory Board Meeting, Milwaukee, WI, 05/2011

Friedland DR, Kim H, Meniere's Disease, Society of Head and Neck Nurses, Chicago, IL, 09/10/2017

Friedland, D.R., The Future is Now: Artificial Intelligence in Otolaryngology, Society University Otolaryngologists, Chicago, Ill, 11/23/2019

Friedland D.R., Soft Wall Reconstruction in Cholesteatoma Surgery, Michigan Ear Institute Otology Update, Traverse City, MI, 06/11/2022

Friedland D.R., Hearing Rehabilitation: Present and Future, Michigan Ear Institute Otology Update, Traverse City, MI, 06/11/2022

Friedland D.R., A Practical Approach to Dizziness, Michigan Ear Institute Otology Update, Traverse City, MI, 06/12/2022

Friedland D.R. (Moderator and Speaker), The Future is Now: AI in Otology, American Otological Society, Boston, MA, 05/06/2023

Friedland D.R., chatGPT and Large Language Models, American Otological Society, Boston, MA, 05/06/2023

### **International**

Friedland D.R. (moderator), Surgeons Round Table and Case Study Session, MED-EL NA Investigators Meeting, Zell am Ziller, Austria, 12/2007

Friedland D.R., EAS Implant Experience, MED-EL NA Investigators Meeting, Zell am Ziller, Austria, 12/2007

Friedland D.R., Runge-Samuelson C.L., Music Perception and EAS, MED-EL NA Investigators Meeting, Seefeld, Austria, 09/2009

Friedland D.R., Invited Instructor, Temporal Bone Course, Vienna, Austria, 10/2009

Friedland D.R., Hearing Preservation Workshop, Miami, FL, 10/2010

Friedland D.R. (presenter and panel moderator), Cholesteatoma: Is a second look still necessary?, 10th International Symposium on Otitis Media, New Orleans, LA, 06/2011

Friedland D.R., Musical Experiences and Outcomes, MED-EL Satellite Symposium; 13th Symposium on Cochlear Implants in Children, Chicago, IL, 07/2011

Friedland D.R., Invited Member of Organizing Committee, The 9th International Conference on Cholesteatoma and Ear Surgery, Nagasaki, Japan, 06/2012

Friedland D.R., Music: Best Benefit for Patients with Cochlear Implants, realLIFE Conference, Rome, Italy, 11/2012

Friedland D.R. and Runge C.L., Outcomes in Geriatric Cochlear Implantation, Hearing Implants for Older Adults, New York, NY, 01/2014

Friedland, D.R. et al., Fine Structure Contributions to Discrimination of Musical Stimuli, 13th International Conference on Cochlear Implants and Other Implantable Auditory Technologies, Munich, Germany, 06/2014

Friedland, D.R., Invited Moderator: Basic Research Section, 15th Symposium on Cochlear Implants in Children, San Francisco, CA, 07/28/2017

Friedland, D.R., Dizziness and Imbalance in the Elderly, American Neurotology Society Fall Meeting,

Atlanta, GA, 10/06/2018  
Friedland, DR, Hearing Loss and Hearing Rehabilitation Associated with Chronic Otitis Media Panel,  
Surgeon's Symposium: International Society for Otitis Media, Milwaukee, WI, 06/20/2023

## **PEER REVIEWED WORKSHOPS/PRESENTATIONS:**

### **Regional**

Wisconsin Society of Otolaryngology-HNS, Wisconsin Dells, WI, 10/2002  
Wisconsin Society of Otolaryngology-HNS, Lake Geneva, WI, 10/2003  
Wisconsin Society of Otolaryngology-HNS, Milwaukee, WI, 09/2004  
Wisconsin Society of Otolaryngology-HNS, Milwaukee, WI, 09/2004  
Wisconsin Society of Otolaryngology-HNS, Milwaukee, WI, 10/2006  
Wisconsin Society of Otolaryngology-HNS, Milwaukee, WI, 10/2010  
Wisconsin Speech-Language Pathology and Audiology Association, Stevens Point, WI, 02/2011  
Wisconsin Speech-Language Pathology and Audiology Association, Milwaukee, WI, 02/2012

### **National**

Association for Research in Otolaryngology, Annual Midwinter Research Meetings, St. Petersburg Beach,  
01/1991  
Society for Neuroscience, Annual Meeting, various locales, 1991 - 1995  
American Association of Anatomists, Annual Meeting, various locales, 1991 - 1995  
Association for Research in Otolaryngology, Annual Midwinter Research Meetings, St. Petersburg Beach,  
01/1992  
Amer. Assoc. of Physical Anthropologists, 61st Ann. Meeting, Las Vegas, NV, 1992  
Association for Research in Otolaryngology, Annual Midwinter Research Meetings, St. Petersburg Beach,  
01/1993  
Association for Research in Otolaryngology, Annual Midwinter Research Meetings, St. Petersburg Beach,  
01/1994  
Association for Research in Otolaryngology, Annual Midwinter Research Meetings, St. Petersburg Beach,  
02/1995  
American Society of Pediatric Otolaryngology, Annual Meeting, Durango, CO, 1995  
Association for Research in Otolaryngology, Annual Midwinter Research Meetings, St. Petersburg Beach,  
02/2001  
Association for Research in Otolaryngology, Annual Midwinter Research Meetings, St. Petersburg Beach,  
02/2002  
American Otological Society, COSM, Boca Raton, FL, 05/2002  
Association for Research in Otolaryngology, Annual Midwinter Research Meetings, Daytona Beach, FL,  
02/2003  
Triological Society Middle Section Meeting, Marco Island, FL, 01/2004  
Association for Research in Otolaryngology, Annual Midwinter Research Meetings, Daytona Beach, FL,  
02/2004  
American Otological Society, COSM, Phoenix, AZ, 05/2004  
American Neurotology Society, COSM, Phoenix, AZ, 05/2004  
American Academy of Otolaryngology - HNSF, Los Angeles, CA, 09/2005  
American Neurotology Society, COSM, San Diego, CA, 04/2007  
American Academy of Otolaryngology - HNSF, Chicago, IL, 09/2008  
Triological Society Section Meeting, Bonita Springs, FL, 01/2009  
Association for Research in Otolaryngology, Baltimore, MD, 02/2009  
7th Molecular Biology of Hearing and Deafness Conference, Boston, MA, 06/2009  
American Auditory Society Annual Meeting, Scottsdale, AZ, 03/2010  
American Neurotology Society, COSM, Las Vegas, NV, 05/2010  
Hearing Loss Association of America, Milwaukee, WI, 06/2010  
AAO-HNSF Annual Meeting, Boston, MA, 09/2010  
American Auditory Society Annual Meeting, Scottsdale, AZ, 03/2011  
Runge C.L., Friedland D.R., Auditory Neuropathy: An Evidence-Based Clinical Approach, AAO-HNSF  
Annual Meeting Instruction Course, San Diego, CA, 09/18/2016  
Friedland D.R., Evidence-Based Approach to Practice Management of Dizzy Patients, AAO-HNSF Annual

Meeting Instruction Course, San Diego, CA, 09/18/2016  
 Friedland D.R. et al, Feasibility of a direct to patient electronic survey for the diagnosis of BPPV, American Otolological Society, National Harbor, MD, 04/21/2018  
 Friedland D.R. et al, Unique clinical language patterns among expert vestibular providers can predict vestibular diagnoses, American Neurotology Society, National Harbor, MD, 04/22/2018  
 Friedland D.R., Advances in Electronic Health Records, American Neurotology Society, National Harbor, MD, 04/22/2018

### **International**

10th International Conference on Cochlear Implants and other Implantable Auditory Technologies, San Diego, CA, 04/2008  
 7th Asia Pacific Symposium on Cochlear Implants and Related Sciences, Singapore, 12/2009  
 11th International Conference on Cochlear Implants and Other Implantable Auditory Technologies, Stockholm, Sweden, 07/2010  
 13th International Symposium on Cochlear Implants in Children, Chicago, IL, 07/2011  
 12th International Conference on Cochlear Implants and Other Implantable Auditory Technologies, Baltimore, MD, 05/2012  
 11th International Congress of the European Society of Pediatric Otorhinolaryngology, Amsterdam, The Netherlands, 05/2012  
 Newborn Hearing Screening 2012, Cernobbio, Italy, 06/2012  
 American Academy of Otolaryngology-Head and Neck Surgery Foundation Annual Meeting, Washington, DC, 09/2012  
 20th World Congress of the International Federation of Oto-Rhino-Laryngological Societies, Seoul, South Korea, 06/2013  
 American Academy of Otolaryngology-Head and Neck Surgery Foundation Annual Meeting, Vancouver, BC, 09/2013  
 13th International Conference on Cochlear Implants and other Implantable Auditory Technologies, Munich, Germany, 06/2014  
 American Academy of Otolaryngology-Head and Neck Surgery Foundation Annual Meeting, Orlando, FL, 09/2014  
 Runge CL, Friedland DR, Auditory Neuropathy: An Evidence Based Approach, AAO-HNSF Annual Meeting, Chicago, IL, 09/10/2017  
 Friedland DR, Evidence Based Approach to Practice Management of the Dizzy Patient, AAO-HNSF Annual Meeting, Chicago, IL, 09/10/2017

### **COMMITTEE SERVICE:**

#### **Medical College of Wisconsin**

07/2002 - 06/2003 Member, Education Committee, Department of Otolaryngology and Communication Sciences  
 07/2003 - 07/2007 Chair, Resident Research Review Committee, Department of Otolaryngology and Communication Sciences  
 07/2005 - 04/2009 Chair, Patient Care Committee, Department of Otolaryngology and Communication Sciences  
 07/2005 - 06/2009 Member, Ad Hoc MD/PhD Advisory Committee, Medical College of Wisconsin  
 07/2005 - 06/2009 Chair, Patient Care Committee, Otolaryngology and Communication Science, Medical College of Wisconsin  
 08/2005 - 06/2008 Member, Research Affairs Committee, Medical College of Wisconsin  
 08/2005 - 07/2008 Member, Research Affairs Committee, Medical College of Wisconsin  
 07/2006 - 06/2009 Member, Billings and Collections Committee, Department of Otolaryngology and Communication Sciences  
 09/2006 - 2019 Member, Education Work Group, Department of Otolaryngology and Communication Sciences  
 04/2007 - 12/2008 Member, Physician Scientist Development Program, Medical College of Wisconsin  
 04/2007 - 12/2008 Member, Physician Scientist Development Program, Medical College of Wisconsin  
 07/2007 - Present Member, Resident Research Review Committee, Department of Otolaryngology and Communication Sciences

11/2012 - 12/2013 Member, Pre-Proposal Resource Office Advisory Committee, Research, Medical College of Wisconsin  
 07/2013 - 2019 Member, Clinical Competency/Performance Evaluation, Otolaryngology and Communication Sciences, Medical College of Wisconsin  
 01/2014 - 01/2015 Member, Affiliate Support Committee, Medical College of Wisconsin  
 01/2014 - 12/2015 Member, Affiliate Support Committee, Medical College of Wisconsin  
 01/2015 - 12/2015 Member, Radiation Oncology Chair Search Committee  
 07/01/2016 - 06/30/2018 Member, Professionalism Enrichment Committee, Medical College of Wisconsin  
 02/01/2017 - Present Member, Department Mentoring Champions, Medical College of Wisconsin  
 10/19/2017 Table Mentor, Academic Advancement Workshop, Faculty Affairs, Medical College of Wisconsin  
 06/01/2018 - 2019 Member, Chair Search Committee - Family and Community Medicine, Medical College of Wisconsin  
 07/01/2018 - 06/30/2019 Chair-Elect, Professionalism Enrichment Committee, Medical College of Wisconsin  
 07/01/2019 - 06/30/2020 Chair, Professionalism Enrichment Committee, Medical College of Wisconsin  
 05/2021 - 01/2022 Member, Search Committee - Neuroscience Institute Director, Medical College of Wisconsin  
 04/2022 - Present Member, Human Research Oversight Committee: HROC, Medical College of Wisconsin  
 07/2022 - 06/2023 Member, Data Science Institute Director Search Committee  
 07/2022 - 06/2023 Co-Chair, CTSI, Data Science, Associate Director Search Committee, CTSI  
 09/2023 - Present Member, Institute for Health and Equity Director Search Committee  
 04/2024 - Present Chair, Clinical Trials Compensation Workgroup

### **Hospital**

12/2004 - 12/2007 Member, Laboratory Committee, Froedtert Hospital  
 12/2004 - 12/2007 Member, Laboratory Committee, Froedtert Hospital  
 12/2010 - 01/2012 Member, Surgical Services, Froedtert Hospital  
 10/2014 - 2016 Member, CFAC Clinic Space Planning, Otolaryngology and Communication Sciences, Froedtert Hospital  
 11/2014 Presenter, Capital Budget Ranking, OR Services, Froedtert Hospital  
 03/2015 - 06/2017 Member, Chronic Migraine Program Development, Department of Neurology, Froedtert and Medical College  
 11/2023 - Present Member, Clinical Strategy Leadership Integration Committee, Clinical Research

## **MEDICAL COLLEGE TEACHING ACTIVITIES:**

### **Community/Lay Public**

12/09/2013 Administrative Assistant Lunch and Learn: Otology

### **Medical Student Education**

07/2002 - Present Attending Staff, M4 Senior Rotation  
 07/2002 - Present Attending Staff, M3 Subspecialty Clerkship  
 04/2005 Department Representative, Attending Staff, AMA Residency Day  
 06/2006 Invited Lecturer, SPUR/MSTP Grand Rounds  
 02/2013 Lecture, Vestibular System, Medical Neuroscience Course  
 02/2013 Lab, Auditory System, Medical Neuroscience  
 02/2014 Lab, Auditory System, Medical Neuroscience  
 02/2014 Lecture, Vestibular System, Medical Neuroscience Course  
 03/2015 Lecture, Structure and Function of the Auditory System, Medical Neuroscience Course  
 03/2015 Lab, Auditory System, Medical Neuroscience  
 03/2015 Lecture, Vestibular System, Medical Neuroscience Course  
 09/27/2016 Rounding with the Professor: Hearing Loss  
 03/2017 Lecture, Vestibular Disorders, Medical Neuroscience Course  
 03/2017 Inner Ear Histology, Lab, Medical Neuroscience Course  
 02/2018 - Present Lecture (yearly), Vestibular Disorders, Medical Neuroscience Course  
 02/2018 Inner Ear Histology, Lab, Medical Neuroscience Course

### **Resident and Fellow Education**

07/2002 - Present Teaching Role, Team A Otology Service  
07/2002 - 06/2009 Teaching Role, Zablocki VA Otology Service  
07/2002 - Present Director, Otology Conference Series  
10/2002 - 11/2002 Co-Director, Temporal Bone Surgery Course  
06/2003 Director, Otology Core Curriculum  
09/2003 Director, Otology Core Curriculum  
10/2003 - 11/2003 Director, Temporal Bone Surgery Course  
10/2003 Director, Otology Core Curriculum  
05/2005 Director, Temporal Bone Surgery Course  
09/01/2005 Core Lecture - Temporal Bone and Skull Base Anatomy  
10/20/2005 Core Lecture - Clinic and Bedside Evaluation of the Vestibular System  
01/2006 Director, Temporal Bone Surgery Course  
01/2007 Director, Temporal Bone Surgery Course  
06/04/2007 Core Lecture - Otologic Neoplasms I  
06/07/2007 Core Lecture - Sensorineural Hearing Loss  
06/11/2007 Core Lecture - Otosclerosis  
06/18/2007 Core Lecture - Otologic Neoplasms II  
07/06/2007 Core Lecture - Otitis Externa / Aural Atresia  
08/03/2007 Core Lecture - Noise Induced Hearing Loss / Tinnitus / Ototoxicity  
09/06/2007 Core Lecture - Vestibular Exam  
09/07/2007 Core Lecture - Trauma and Reconstruction  
09/20/2007 Core Lecture - Vestibular Test Interpretation  
10/05/2007 Core Lecture - Cholesteatoma and Surgery  
10/08/2007 Core Lecture - Audiogram Interpretation / BAHA  
10/15/2007 Core Lecture - Tympanoplasty  
10/22/2007 Core Lecture - Autoimmune and Systemic Diseases of the Ear  
10/25/2007 Core Lecture - Complications of Otitis Media  
11/02/2007 Otology Journal Club  
12/07/2007 Core Lecture - Infections of the Labyrinth / Facial Paralysis  
01/06/2008 Core Lecture - Peripheral Vestibular Disorders  
03/07/2008 Core Lecture - Medical and Surgical Treatment of Vestibular Disorders  
03/2008 Director, Temporal Bone Surgery Course  
05/02/2008 Core Lecture - CPA Tumors and Sudden Hearing Loss  
03/2009 Director, Temporal Bone Surgery Course  
06/04/2009 Core Lecture - Temporal Bone CT Anatomy  
06/05/2009 Otology Conference  
06/08/2009 Core Lecture - Physical Examination  
06/11/2009 Core Lecture - Physiology of the Vestibular System  
06/22/2009 Core Lecture - Vestibular Testing  
07/03/2009 Otology Conference  
08/07/2009 Otology Conference  
09/03/2009 Core Lecture - Facial Nerve Testing  
09/04/2009 Otology Conference  
10/01/2009 Diseases, Disorders and Conditions-I  
10/02/2009 Otology Conference  
10/15/2009 Core Lecture - Surgical Concepts  
10/19/2009 Core Lecture - Surgical Monitoring and Anesthesia  
10/22/2009 Core Lecture - Diseases, Disorders and Conditions-II  
10/29/2009 Core Lecture - Diseases, Disorders and Conditions-III  
06/02/2011 Core Lecture - Temporal Bone Surgical Anatomy  
06/03/2011 Otology Conference  
06/09/2011 Temporal Bone Dissection lab  
06/30/2011 Core Lecture - Surgical Concepts  
07/01/2011 OTO 911  
09/01/2011 Core Lecture - Physiology of the Vestibular System

09/02/2011 Core Lecture - Interpretation of Vestibular Testing  
 09/15/2011 Core Lecture - Physical Exam  
 09/22/2011 Core Lecture - Surgical Monitoring and Anesthesia  
 10/06/2011 Core Lecture - Otologic Diseases I  
 10/07/2011 Core Lecture - Otologic Diseases II  
 12/17/2012 Core Lecture - Vestibular Physiology  
 12/20/2012 Core Lecture - Vestibular Disorders  
 01/14/2013 Core Lecture - CT Temporal Bones  
 01/21/2013 Core Lecture - Complications of Otitis Media  
 02/18/2013 Core Lecture - Vestibular and Related Testing  
 05/01/2013 Radiation Oncology Resident Conference - Otologic Issues  
 08/02/2013 OTO 911  
 08/01/2014 OTO 911  
 12/05/2014 Core Lecture - CT Temporal Bones  
 12/18/2014 Core Lecture - Cochlear Implants and Other Implantable Technologies  
 01/22/2015 Core Lecture - Complications of Otitis Media  
 01/29/2015 Core Lecture - Vestibular Physiology  
 02/05/2015 Core Lecture - Vestibular Disorders  
 02/12/2015 Core Lecture - Vestibular and Related Testing  
 02/19/2015 Core Lecture - Cholesteatoma/Mastoidectomy  
 03/23/2015 Mock Oral Exams, Otology  
 11/04/2016 Neurology Resident Lecture Series  
 12/08/2016 Core Lecture - Vestibular Physiology  
 12/15/2016 Core Lecture - Vestibular Testing  
 01/05/2017 Core Lecture - Vestibular Disorders  
 01/12/2017 Core Lecture - Cholesteatoma/Mastoidectomy  
 01/26/2017 Core Lecture - Complications of Otitis Media  
 02/02/2017 Core Lecture - CT Temporal Bones  
 08/25/2017 Neurology Resident Lecture Series  
 08/31/2018 Neurology Resident Lecture Series  
 2019 - Present at least 6 formal lectures yearly, Core Curriculum

### **Continuing Medical Education**

10/2002 Presenter, Balance Issues After Acoustic Neuroma Surgery, Otology Update: Frontiers in Acoustic Neuroma Management, Department of Otolaryngology CME Course  
 11/2004 Audiology Division Update, VEMPs in Audiology, Allied Professional Conference, Froedtert Hospital  
 01/2005 Presenter, Society of Head and Neck Nurses (CME Credit), Genetics and Hearing Loss, Southeast Chapter, Milwaukee  
 05/2007 Director, Temporal Bone Dissection Course, 2-day National Course, Medical College of Wisconsin  
 12/2007 Lecturer, Department of Neurology, Clinical Neurophysiology Lecture Series, Medical College of Wisconsin  
 06/2008 Presenter, 9th Annual Otolaryngology Alumni Day, Molecular Biology in Otologic Research  
 02/2009 Lecturer, Winter Refresher Course - Family Medicine, Evaluation and Management of Dizziness (CME Credit)  
 01/2010 Director, Dizziness: A Practical approach to evaluating and managing the patient with vestibular complaints, Full Day Regional Course, Medical College of Wisconsin  
 01/22/2013 Biostatistics Conference; Collaborative Research in Otolaryngology  
 01/31/2013 Cardiovascular Grand Rounds; Audiometric Pattern and Cardiovascular Disease  
 04/24/2018 Grand Rounds: PechaKucha Sudden Hearing Loss  
 05/31/2018 Senior Physicians Symposium: Vertigo - An Update

### **Graduate Student Education**

03/2016 Lecturer, Fundamentals of Neuroscience - Auditory  
 03/2016 Lecturer, Fundamentals of Neuroscience - Vestibular  
 03/2017 Lecturer, Fundamentals of Neurosciences - Vestibular

03/2017 Lecturer, Fundamentals of Neuroscience - Auditory  
02/2018 Lecturer, Fundamentals of Neurosciences - Auditory  
02/2018 Lecturer, Fundamentals of Neurosciences - Vestibular

**EXTRAMURAL TEACHING:**

**Continuing Medical Education**

01/2003 Elmbrook Hospital, Presenter, Family Practice Grand Rounds (CME Credit), Evaluation of Hearing Loss and Tinnitus, Elmbrook Hospital  
04/2007 Columbia St Mary's, Lecturer, Columbia-St. Mary's Medical Staff Grand Rounds, Dizziness and Imbalance (CME Credit)  
09/2008 Columbia-St Mary's, Lecturer, Columbia-St. Mary's Medical Staff Grand Rounds, Cochlear Implants (CME Credit)  
09/2009 WSHA Fall Update, Lecturer, WSHA Fall Update, Baha, Middle Ear Implants, Cochlear Implants (CE Credit)  
11/2009 Wheaton-Franciscan, Lecturer, Wheaton-Franciscan Family Practice Grand Rounds, Evaluation and Management of Dizziness  
12/2010 Zablocki VA, Lecturer, Geriatric Grand Rounds, Zablocki VA, Audiometric patterns and cardiovascular disease  
07/2013 Columbia St Mary's, Medical Grand Rounds; Dizziness and Balance Disorders  
08/03/2014 THE MEDICAL COLLEGE OF WISCONSIN INC, Best Evidence 2014 - Sudden Hearing Loss Guideline  
08/03/2014 THE MEDICAL COLLEGE OF WISCONSIN INC, Best Evidence 2014 - Dizziness Panel  
08/2014 THE MEDICAL COLLEGE OF WISCONSIN INC, Conference Director - Best Evidence ENT 2014  
07/27/2015 THE MEDICAL COLLEGE OF WISCONSIN INC, Best Evidence 2015 - Evaluation of Dizziness: Best Practices  
07/2015 THE MEDICAL COLLEGE OF WISCONSIN INC, Conference Director - Best Evidence ENT 2015  
07/27/2016 THE MEDICAL COLLEGE OF WISCONSIN INC, Best Evidence 2015 - Tympanoplasty Panel  
07/27/2016 THE MEDICAL COLLEGE OF WISCONSIN INC, Best Evidence 2015 - Sudden Sensorineural Hearing Loss Guideline  
08/07/2016 THE MEDICAL COLLEGE OF WISCONSIN INC, Best Evidence 2016 - Moderator: Chronic Draining Ear Panel  
08/07/2016 THE MEDICAL COLLEGE OF WISCONSIN INC, Best Evidence 2016 - Tinnitus: Clinical Practice Guideline  
08/07/2016 THE MEDICAL COLLEGE OF WISCONSIN INC, Best Evidence 2016 - Metric Madness: Lag Time  
08/2016 THE MEDICAL COLLEGE OF WISCONSIN INC, Conference Director - Best Evidence ENT 2016  
08/04/2017 THE MEDICAL COLLEGE OF WISCONSIN INC, Best Evidence 2017 - Moderator: Vestibular Migraine  
08/04/2017 THE MEDICAL COLLEGE OF WISCONSIN INC, Best Evidence 2017 - Sudden Hearing Loss Guideline  
08/2017 THE MEDICAL COLLEGE OF WISCONSIN INC, Conference Director - Best Evidence ENT 2017  
08/11/2018 THE MEDICAL COLLEGE OF WISCONSIN INC, Best Evidence 2018- Sudden Hearing Loss Guideline  
08/11/2018 THE MEDICAL COLLEGE OF WISCONSIN INC, Best Evidence 2018- Vestibular Evaluation: Evidence Based Diagnosis  
08/11/2018 THE MEDICAL COLLEGE OF WISCONSIN INC, Best Evidence 2018 – Vestibular Disorders Panel  
08/09/2019 THE MEDICAL COLLEGE OF WISCONSIN INC, Best Evidence 2019 – Eustachian Tube Dysfunction Panel  
08/11/2019 THE MEDICAL COLLEGE OF WISCONSIN INC, Best Evidence 2019 – Hearing Rehabilitation Update



08/11/2019 THE MEDICAL COLLEGE OF WISCONSIN INC, Best Evidence 2019 - Sudden Hearing Loss Guideline  
 08/11/2019 THE MEDICAL COLLEGE OF WISCONSIN INC, Best Evidence 2019 – Tinnitus Panel  
 07/28/2022 THE MEDICAL COLLEGE OF WISCONSIN INC, Best Evidence 2022 – Intratympanic Injections  
 07/28/2022 THE MEDICAL COLLEGE OF WISCONSIN INC, Best Evidence 2022 – Hearing Rehabilitation Update  
 07/28/2022 THE MEDICAL COLLEGE OF WISCONSIN INC, Best Evidence 2022 - Sudden Hearing Loss Guideline  
 07/29/2022 THE MEDICAL COLLEGE OF WISCONSIN INC, Best Evidence 2022 – OTO Clinomics  
 07/31/2022 THE MEDICAL COLLEGE OF WISCONSIN INC, Best Evidence 2022 – COVID and Otology

### **Graduate Student Education**

10/22/2012 University of Wisconsin - Steven's Point AuD Program, Lecturer, Vestibular Evaluation  
 10/21/2013 University of Wisconsin - Steven's Point AuD Program, Lecturer, Vestibular Evaluation

## **MCW STUDENTS, FACULTY, RESIDENTS AND CLINICAL/RESEARCH FELLOWS MENTORED:**

### **Medical Students**

Erica Samuel, M2, Howard Hughes Fellow, MCW, 07/2003 - 05/2007 Mentor  
 Ben Ringger, M1, Summer Fellowship Awardee, MCW, 01/2005 - 09/2005 Medical Student Summer Research Program  
 Victor Scapa, M4, MCW, 07/2005 - 09/2005 Manuscript Preparation  
 Ana Cabán Cardona, M1, MCW, 01/2006 - 05/2008 Medical Student Summer Research Program  
 Jill Arganbright, MCW, 05/2007 - 05/2008 Project design and manuscript preparation and submission  
 Humera Baig, MCW, 06/2008 - 09/2008 Medical Student Summer Research Program  
 John Nash, MCW, 09/2008 - 06/2010 Research Advisor (with Drs Rhee and Runge-Samuels)on  
 Brad Schow, MCW, 01/2009 - 01/2010 Medical Student Summer Research Program  
 Edward Lee, MCW, 01/2009 - 09/2009 Medical Student Summer Research Program  
 Nicholas Hartog, MCW, 07/2009 - 01/2011 Medical Student Physician Scientist Pathway  
 Haoganag (Howie) Zhang, MCW, 06/2010 - 2011 Medical Student Summer Research Program  
 Andrew Johnson, MCW, 06/2010 - 2011 Medical Student Summer Research Program  
 Edward Lee, MCW, 02/2011 - 05/2012 Career and Clinical Rotation Advisor  
 Tanner Fullmer, MCW, 01/2012 - 2013 Advisor, Summer Research Program, Pathway Student  
 Alison Crane, MCW, 06/2012 - 2013 Medical Student Summer Research Program  
 Since 2013 I no longer track students mentored. I run the department MSSRP program and as of 2020 implemented OTO Clinomics. Through these programs I have provided active mentoring and research oversight for over 40 additional undergraduate and medical students., Medical College of Wisconsin, Research/Academic, Summer Rotations, Publications, Presentations, OTO Clinomics

### **Residents**

Rebecca Duke M.D., PGY2, MCW, 08/2002 - 05/2006 Research Advisor Project Design, Presentations and Grant Submission  
 Stacey Ishman, M.D., PGY4, MCW, 09/2003 Grand Rounds, Research and Career Development Advisor, Manuscript and Abstract Preparation and Submission  
 Jon Grant M.D.,PGY3, MCW, 07/2005 - 01/2008 Research Advisor, Project Design, Implementation and IRB Submission  
 Christopher Cederburg MD, PGY2, MCW, 08/2005 - 2007 Research Advisor, Project Design, Presentations and Grant Submission  
 Nima Shemirani MD, PGY3-5, MCW, 09/2006 - 09/2008 Project Design, Presentation  
 I stopped tracking individuals as we have 3-4 residents annually in the program for which I mentor the research rotations and otology subsection. Among those mentored include Beth Kelly, Karl Doerfer, Mana Espahbodi, Adam Thompson-Harvey, and Erin Harvey who are pursuing Neurotology subspecialty fellowship training. This includes pediatric fellows who have joined academic practices and are in, or run, cochlear implant programs., Medical College of Wisconsin, 2009 - Present  
 Research/Academic/Career

## **PROGRAMMATIC DEVELOPMENTS:**

### **Clinical Programs**

Tinnitus and Hyperacusis Program  
Children's Hospital of Wisconsin Hearing Loss Program (CHW HeLP)  
Vestibular Disorders Program

### **Community Programs**

Patient Education Otology Brochures  
Cochlear Implant Candidates Meetings  
Annual Cochlear Implant Picnic

## **COMMUNITY SERVICE ACTIVITIES:**

09/2002 Acoustic Neuroma Support Group (Milwaukee Chapter): talk on coping after acoustic neuroma surgery  
12/2005 Wauwatosa Rotary Club: educational talk on "Understanding Dizziness"  
03/2008 Froedtert Hospital Community Education Program: educational talk on "Understanding Dizziness"  
10/2008 Froedtert Hospital Community Education Program: educational talk on "Tinnitus"  
12/2008 Froedtert Hospital Community Education Program: educational talk on "Tinnitus" (repeat of 10/2008 talk due to overwhelming demand)  
04/01/2015 St. John's on the Lake Retirement Community: educational talk on aging and hearing loss  
08/06/2022 Mega Science Cafe, CTSI: Hearing Loss and Hearing Rehabilitation at Greater Little Hills Church of God in Christ, Milwaukee WI  
11/05/2022 United Way Snacks for Kids Drive  
02/28/2023 Mega Science Cafe, CTSI: Hearing Loss and Hearing Rehabilitation (virtual), Canaan Baptist Church of the General Baptist State Convention, Milwaukee WI  
05/13/2023 Mega Science Cafe, CTSI: Hearing Loss and Hearing Rehabilitation; Hearing Loss and Cardiovascular Disease and Dementia, Greater Galilee Baptist Church, Milwaukee WI

## **GRANT/ DISSERTATION/PROPOSAL REVIEWS:**

12/2016 Reviewer: MRC UK Research Fellowship Grant Proposal  
04/2023 Dissertation review committee member, Christopher Smith, Icahn School of Medicine

## **BIBLIOGRAPHY**

### **Refereed Journal Publications/Original Papers**

1. **Friedland, D.R.**, Eden, A.R. and Laitman, J.T. Naturally occurring motoneuron cell death in rat upper respiratory tract motor nuclei: a histological, fast-DiI and immunocytochemical study in the nucleus ambiguus. *J. Neurobiol.* 26(4):563-578, 1995.
2. **Friedland, D.R.**, Eden, A.R. and Laitman, J.T. Naturally occurring motoneuron cell death in rat upper respiratory tract motor nuclei: a histological, fast-DiI and immunocytochemical study in the hypoglossal nucleus. *J. Neurobiol.* 27(4):520-534, 1995.
3. **Friedland, D.R.**, Eden, A.R. and Laitman, J.T. Use of the Novel Carbocyanine Tracer Fast-DiI for Investigating Upper Respiratory Tract Cranial Nerves in Prenatal Rats. *Laboratory Animal Sciences* 46(2):220-225, 1996.
4. **Friedland, D.R.**, Fahs, M.C and Catalano, P.J. Infant hearing screening: A cost effectiveness analysis of the high risk register and auditory brainstem response. *Int. J. Pediatr. Otorhinolaryngol.* 38(2):115-130, 1996.
5. **Friedland, D.R.** and Wackym, P.A. Endoscopic auditory brainstem implantation: evaluation of surgical approaches. *Laryngoscope* 109(2):175-180, 1999.
6. **Friedland, D.R.** and Wackym, P.A. A critical appraisal of spontaneous perilymphatic fistulas. *Am. J. Otol.* 20(2):261-276, 1999.

7. **Friedland, D.R.**, Rhee, J.R., Finn, M.S. and Wackym, P.A. Cochlear implantation for auditory rehabilitation in Camurati-Engelmann disease. *Ann Otol Rhinol Laryngol.* Feb;109(2):160-162, 2000.
8. **Friedland, D.R.** and Rothschild, M.A. Rapid resolution of fetal goiter associated with maternal Grave's disease: a case report. *Int J Pediatr Otorhinolaryngol* Aug;54(1):59-62, 2000.
9. Fliegelman, L.J., **Friedland, D.R.**, Brandwein, M., and Rothschild, M.A. Lymphatic malformation: predictive factors for recurrence. *Otolaryngol. Head Neck Surg.* 123(6):706-710, 2000.
10. **Friedland, D.R.**, Delgado, M., Isenberg, H., Simpson, E., Holzman, I., and Rothschild, M.A. Bacterial colonization of endotracheal tubes in the intubated neonate. *Arch Otolaryngol Head Neck Surg.* 127:525-528, 2001.
11. Plaza-Ruiz, A., **Friedland, D.R.** and Niparko, J.K. Radiology Quiz Case 2: Cochlear Otosclerosis. *Arch Otolaryngol Head Neck Surg.* 128(10):1214-1217, 2002.
12. **Friedland, D.R.**, Pongstaporn, T., Doucet, J.R., and Ryugo, D.K. Ultrastructural examination of the somatic innervation of ventrotubercular cells in the rat. *J. Comp. Neurol.* 459(1):77-89, 2003.
13. Halum, S.L., Erbe, C.B., **Friedland, D.R.**, and Wackym, P.A. Gene discovery using a human vestibular schwannoma cDNA library constructed from a patient with neurofibromatosis type 2 (NF2). *Otolaryngol Head Neck Surg.* 128(3):364-71, 2003.
14. **Friedland, D.R.**, Venick, H., and Niparko, J.K. Choice of ear in cochlear implantation: Effect of implantation in the poorer ear on predicted post-operative performance. *Otol. Neurotol.* 24(4):582-289, 2003. [7th Most Cited Paper for O&N in 2003]
15. Ishman, S. and **Friedland, D.R.\*** Temporal bone fractures: Revisiting the traditional classification scheme and its clinical relevance. *Laryngoscope* 114(10):1734-41, 2004 (\*2nd prize for Resident Manuscript - Paul Holinger Award)
16. **Friedland, D.R.**, Los, J.G. and Ryugo, D.K. A modified Golgi staining protocol for use in the human auditory brain stem and cerebellum. *J. Neurosci. Methods* 150(1):90-95, 2006.
17. **Friedland, D.R.** and Michel, M.A. Cranial thickness in superior canal dehiscence syndrome: Implications for canal resurfacing surgery. *Otol. Neurotol.* 27(3):346-354, 2006.
18. **Friedland, D.R.**, Popper, P., Eernisse, R., Ringger, B. and Cioffi, J. Differential expression of cytoskeletal genes in the cochlear nucleus. *Anat Rec A Discov Mol Cell Evol Biol.* 288(4):447-65, 2006.
19. **Friedland, D.R.**, Structure and Function in the Auditory System: From Cochlea to Cortex. *Anat Rec A Discov Mol Cell Evol Biol.* 288(4):326-30, 2006.
20. **Friedland, D.R.**, Popper, P., Eernisse, R. and Cioffi, J. Differentially expressed genes in the rat cochlear nucleus. *Neuroscience* Oct 27;142(3):753-68, 2006.
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