

## CURRICULUM VITAE

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**Bernard Rousseau, Ph.D., MMHC, CCC-SLP, ASHA Fellow**  
Associate Dean, School of Health and Rehabilitation Sciences  
Professor and Chair, Department of Communication Science and Disorders  
University of Pittsburgh

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### BIOGRAPHICAL

**Name:** Bernard Rousseau, Ph.D., MMHC, CCC-SLP, ASHA Fellow  
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### EDUCATION and TRAINING

#### UNDERGRADUATE:

1996-1998	University of Central Florida Orlando, Florida	B.S. 1998	Communicative Disorders
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#### GRADUATE:

1998-2000	University of Central Florida Orlando, Florida	M.A. 2000	Communicative Disorders
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2000-2004	University of Wisconsin Madison, Wisconsin	Ph.D. 2004	Communicative Disorders
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2015-2016	Vanderbilt University Owen Graduate School of Management Nashville, Tennessee	MMHC 2016	Master of Management in Health Care
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#### POSTGRADUATE:

2004-2005	Vanderbilt Voice Center Nashville, Tennessee	CFY 2005	Clinical Fellowship, Speech-Language Pathology
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**APPOINTMENTS AND POSITIONS**

**ACADEMIC:**

2020-present	School of Health and Rehabilitation Sciences, University of Pittsburgh, Pittsburgh, Pennsylvania	Associate Dean for Equity, Inclusion, and Community Engagement
2018-present	Department of Communication Science & Disorders, University of Pittsburgh, Pittsburgh, Pennsylvania	Professor and Chair
2015-2018	Department of Otolaryngology, Vanderbilt University School of Medicine, Nashville, Tennessee	Associate Vice Chair for Research
2015-2017	Vanderbilt University, Nashville, Tennessee	Chancellor Faculty Fellow
2013-2018	Department of Otolaryngology, Vanderbilt University School of Medicine, Nashville, Tennessee	Associate Professor of Otolaryngology (Tenured)
2013-2018	Department of Hearing and Speech Sciences, Vanderbilt University School of Medicine, Nashville, Tennessee	Associate Professor of Hearing and Speech Sciences (Secondary appointment)
2013-2018	Department of Mechanical Engineering, Vanderbilt University School of Engineering, Nashville, Tennessee	Associate Professor of Mechanical Engineering (Secondary appointment)
2005-2013	Department of Otolaryngology, Vanderbilt University School of Medicine, Nashville, Tennessee	Assistant Professor of Otolaryngology (Tenure Track)
2009-2013	Department of Hearing and Speech Sciences, Vanderbilt University School of Medicine, Nashville, Tennessee	Assistant Professor of Hearing and Speech Sciences (Secondary appointment)
2013	Department of Mechanical Engineering, Vanderbilt University School of Engineering, Nashville, Tennessee	Assistant Professor of Mechanical Engineering (Secondary appointment)
2011-2017	Department of Speech, Language, and Hearing Sciences, Purdue University College of Health and Human Sciences, West Lafayette, Indiana	Adjunct Member of Graduate Faculty

**AFFILIATED:**

2004-2018	Department of Otolaryngology, Vanderbilt University Voice Center, Nashville, Tennessee	Speech-Language Pathologist
2005-2018	Center for Matrix Biology, Vanderbilt University Medical Center, Nashville, Tennessee	Research Investigator
2009-2018	Vanderbilt Neuroscience Training Program, Brain Institute, Vanderbilt University Medical Center, Nashville, Tennessee	Training Faculty

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**LEADERSHIP RESPONSIBILITIES**

**As Associate Dean**

**Oversight of policies and best practices in recruitment and retention of academic diversity**

- Responsible for working with the Associate Vice Chancellor for Health Sciences Diversity and the School of Health and Rehabilitation Sciences leadership and faculty to develop policies and best practices in all areas of recruitment and retention, academic diversity, and community engagement initiatives.
- Responsible for development and oversight of a comprehensive program that provides leadership, guidance, and support to promote increased recruitment, retention and advancement of underrepresented minority faculty, staff and students.

**Development of strategic partnerships locally and regionally to foster inclusion**

- Oversight of all diversity, equity, and inclusion activities in the School of Health and Rehabilitation Sciences as they relate to faculty, trainees, students, and staff.
- Responsible for development of strategic partnerships with the Schools of Health Sciences and community health and wellness initiatives, including the University of Pittsburgh Community Engagement Center and the SHRS Wellness Pavilion.

**Leadership of a school-wide cluster-hire initiative**

- Responsible for leading a school-wide cluster-hire initiative “Amplifying the work of justice, equity, diversity, and inclusion (JEDI) change agents to transform the School of Health and Rehabilitation Sciences to train future generations of health professionals to address social determinants of health and health disparities.”

**As Department Chair, Communication Science and Disorders, University of Pittsburgh**

**Leadership of largest department in the School of Health and Rehabilitation Sciences**

- Responsible for leadership of the largest department in the School of Health and Rehabilitation Sciences with an enrollment of 264 students across 5 degree programs.
- Providing strategic direction, oversight, and budgetary management of an operational unit with an approximately \$3M annual operating budget and \$12M in total grant revenue.
- Management of day to day operations of a department of over 21 FTE faculty, 20 adjunct faculty, 9.5 FTE staff, 17 graduate student research assistants, and 4 post-doctoral research fellows.
- Service as chief administrative and academic officer of the department and representative on the Dean's Advisory Council.
- Responsible for leadership of personnel and resources, faculty tenure and promotion, faculty and staff development, and support of academic and research programs.
- Oversight of enrollment management, course scheduling, faculty recruitment and hiring.

**Development, fundraising, managing, and securing resources for Pitt CSD**

- Leadership of development and fundraising activities for the department.
- Responsible for liaising with the University of Pittsburgh Philanthropy and Alumni Engagement Office and development director for the School of Health and Rehabilitation Sciences to prioritize and implement fundraising strategies.

**Management of communications, external engagement, and alumni relations**

- Leadership of alumni relations and external communications for department.
- Responsible for alumni engagement and liaising with staff in the School of Health and Rehabilitation Sciences to plan, organize, and hold alumni events at the annual meetings of the American Speech Language Hearing Association (ASHA) and American Academy of Audiology (AAA).

**Development, recruitment, retention, support, and leadership of faculty & staff**

- Overseeing the personnel of the department including the hiring of tenure stream and appointment stream faculty, staff, performance management and performance improvement plans, support of professional development, and the preparation and submission of annual faculty and staff evaluations.

### **Advancing educational and clinical excellence**

- Leadership of all academic matters in the department including academic degree programs, advancing the schools mission of excellence in research, teaching, and service, and the recruitment, retention and matriculation of undergraduate and graduate students.
- Oversight of curriculum, course coverage, teaching loads, course proposals, and implementation of curricular changes across 5 degree programs, including undergraduate program in communication science (B.S.), doctoral program (Ph.D.) in communication science and disorders, professional programs (Au.D., MASLP) & post-professional clinical doctoral program (CScD).
- Responsible for oversight of clinical training partnerships to build capacity in order to support growth of enrollment across professional training programs.

### **Leading innovation and engagement of the department in research of impact**

- Leadership in advancing the schools mission of excellence in research.
- Development and implementation of research benchmarks to align with key metrics, including grant revenues and indirect cost recovery and return.
- Oversight of Vice Chair for Research and Office of Research support staff to manage efficiency of research operations and departmental grant activity.
- Leadership and support of faculty research pursuits, including year over year increases in publications, grant activity and scholarship success rates.
- Responsible for management of department space, personnel, and research programs to create operational efficiencies, reduce costs, and increase the number of scientific collaborations across the school and university.
- Oversight of space renovations, new buildouts, multi-PI laboratory initiatives, and resource and space allocation to meet the needs of the department.

### **Building a collaborative culture and strengthening connections across university**

- Leadership and advocate for faculty, staff, and students on school-wide task forces to strengthen academic, research, and clinical programs in department.

### **As Associate Vice Chair for Research, Otolaryngology, Vanderbilt Univ Medical Center**

### **Service on the Executive Leadership Team in top-ranked Department of Otolaryngology**

- Responsible for serving on the Executive Leadership Team that reported directly to the Director of the Vanderbilt Bill Wilkerson Center for Otolaryngology and Communication Sciences and the Guy M. Maness Professor and Chairman of Otolaryngology.
- Fiscal and administrative oversight of \$1M research annual operating budget and \$4.7M in annual grant revenue.
- Oversight of the basic science research programs, laboratories, and support for the basic science research missions of the department.
- Leadership of departmental research activities including federal, non-federal, and industry sponsored research grants.

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## LEADERSHIP ACHIEVEMENTS

### **As Associate Dean**

- Established the Office of Equity, Inclusion, & Community Engagement (OEICE) in the School of Health and Rehabilitation Sciences to support faculty, students & staff.
- Appointed two new OEICE staff positions: 1) Senior Director of Strategic Programs and Services, and 2) Program Coordinator to support the school's vision for equity, inclusion, and community engagement.
- Led the submission of a proposal to the Office of the Senior Vice Chancellor for Health Sciences to increase the representation of underrepresented minority faculty in the School of Health and Rehabilitation Sciences by 5% over the next 3 years through a cluster-hire initiative to recruit faculty with expertise in addressing the social determinants of health and wellness, health equity, and health care disparities in the rehabilitation professions.

### **As Department Chair, Communication Science and Disorders, University of Pittsburgh**

- Created a senior executive leadership team with appointment of three new vice chair positions in the department: 1) Vice Chair for Academic Affairs, 2) Vice Chair for Clinical Education, and 3) Vice Chair for Research.
- Led a departmental reorganization, including the establishment of four new offices to support faculty, staff, and students: 1) CSD Office of Research, 2) CSD Office of Clinical Education, 3) CSD Office of Academic Affairs, and 4) CSD Office of the Chair.
- Led a successful reorganization of staff responsibilities to provide increased support to faculty involved in research; program directors providing oversight of degree programs; and faculty and staff supporting clinical education and network clinical placements across the UPMC and VAMC healthcare system.

- Successful recruitment of 2 tenure stream and 1 appointment stream faculty in 2018/2019 to add expertise and depth to the department in the area of speech disorders in children and the development of brain functions for attention and language, structural and functional architecture of neural systems in the human brain to support speech and language processes, and pediatric audiology.
- Successful recruitment and appointment of 1 appointment stream faculty member in 2019/2020; a new director of the Clinical Science Doctoral Program (CScD) in speech-language pathology.
- Successful recruitment of 1 tenure stream faculty member in 2019/2020 to strengthen our program in Audiology and our PhD program in Communication Science and Disorders and add expertise and depth to the department in the area of auditory neuroscience, hearing loss, and aging.
- Increased the number of grants, contract submissions, and grant revenue by 900% (\$750K to \$12M) in the department from the period 2017/2018 to 2019/2020.
- Increased enrollment in the PhD Program in Communication Science and Disorders by 30% from the period 2017/2018 to 2019/2020.
- Increased enrollment in the MA SLP Program by 18% from the period 2017/2018 to 2019/2020.
- Provided oversight and resources for the renovation of 3 department laboratories, including a new buildout at Bridgeside Point on the River Campus: 1) The Department of Communication Science and Disorders Basic Science Laboratory a 2,000 square foot multi-PI laboratory with a comprehensive molecular biology, tissue culture, microscopy, tissue histology, and wet lab space to accommodate up to 18 researchers and an additional 625 square feet of office and conferencing space for faculty, staff and students; 2) The Brain and Auditory Sciences Research Initiative, a 1,500 square foot multi-PI research dedicated facility housed in the School of Health and Rehabilitation Sciences that houses state-of-the-art neuroscience and psychoacoustics laboratories as well as dedicated workspace for staff and students involved in brain and auditory sciences research. The capabilities of the laboratory are extensive and designed to facilitate neuroimaging research; and 3) Research Enterprises for Voice and Swallowing, a 1,100 square foot multi-PI laboratory housed in the School of Health and Rehabilitation Sciences that includes a lab and participant room, dark room, student workspace, and waiting area for up to 3 PI's to perform voice and swallowing research.
- Increased alignment of faculty, space, and research programs to increase research operational efficiencies and lower the costs of new faculty laboratory renovations by approximately \$250-350 K.

- Created operational efficiencies through greater alignment of CSD space, personnel, and research programs to reduce costs and increase the number of scientific collaborations of greater impact within the department and across the school and university.
- Strengthened collaborations between the Department of Communication Science and Disorders and several academic units across the university and greater Pittsburgh region, including the Department of Otolaryngology in the School of Medicine; Electrical and Computer Engineering in the Swanson School of Engineering; Center for Neuroscience at the University of Pittsburgh; Center for Neural Basis of Cognition: a joint venture between the University of Pittsburgh and Carnegie Mellon University; VA Pittsburgh Healthcare System; and the UPMC Children’s Hospital of Pittsburgh.
- Established a formal partnership between the University of Pittsburgh School of Health and Rehabilitation Sciences and DePaul School for Hearing and Speech, marked by the signing of a memorandum of understanding to provide research and educational opportunities, clinical training, adjunct teaching, summer camps and professional development, and high-quality research training experiences for students.
- Led the successful renegotiation of clinical per diem contract with UPMC Passavant.
- Established a gift with the University of Pittsburgh to create an endowed fund, the Bernard Rousseau Student Resource Fund in Communication Science and Disorders to support the University’s commitment to diversity by enhancing opportunities for underrepresented students in the School of Health and Rehabilitation Sciences. The endowment income provides support for education-related expenses for underrepresented students in the Department of Communication Science and Disorders, including but not limited to books, lab fees, and travel.
- Commissioned an Equity, Justice, and Inclusion workgroup in the department to develop action-oriented solutions to promote diversity, equity, and inclusion in CSD.
- Increased gifts to the department from the period 2017/2018 to 2019/2020.
- Increased alumni engagement and attendance at alumni events at the American Speech Language Hearing Association (ASHA) and American Academy of Audiology (AAA).
- Increased engagement with alumni through the establishment of a Chair’s Newsletter and improved external communications to provide regular updates on CSD accomplishments.
- Developed and implemented departmental academic, clinical, and research benchmarks; including the implementation of a departmental scientific review process to increase faculty publications, grant activity and success rates by 20%.
- Significant improvement in 2021 U.S. News & World Report rankings, with Speech-Language Pathology realizing the largest climb in the Best Graduate Schools rankings up four spots from its previous # 7 ranking to the #3 ranked SLP program in the country.



**As Associate Vice Chair for Research, Otolaryngology, Vanderbilt Univ Medical Center**

- Growth of departmental research laboratories, faculty, infrastructure, and support for faculty research activities led to a *37% increase in federal research funding* and *23% increase in funding for industry sponsored clinical trials*, during the period 2015-2017.
- Increase in ranking to the #4 ranked department of otolaryngology in NIH sponsored research in 2017.

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**CERTIFICATION and LICENSURE**

**SPECIALTY CERTIFICATION:**

American Speech-Language-Hearing Association 2005-present  
Speech Language Pathology  
Certificate of Clinical Competence  
License #12019218

**MEDICAL or OTHER PROFESSIONAL LICENSURE**

Department of Health, Board of Communication 2005-2018  
Sciences and Disorders  
Speech-Language Pathology  
State of Tennessee License  
License #3195

Department of Commerce and Insurance 2006-2018  
Board of Pharmacy  
State of Tennessee Researcher License  
License #0000010743

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**MEMBERSHIP in PROFESSIONAL and SCIENTIFIC SOCIETIES**

American Speech Language Hearing Association (ASHA) 2004-present

ASHA Special Interest Group 3, Voice and Voice Disorders 2004-present  
Co-Chair, Research Committee  
Member, Steering Committee  
Associate Editor, Perspectives on Voice and Voice Disorders  
Editor, Perspectives on Voice and Voice Disorders

The Voice Foundation 2004-2008

Tennessee Association of Audiology and Speech Language Pathology	2004-2008
American Academy of Otolaryngology Head and Neck Surgery	2004-2008
American Laryngological Association	2013-present

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## HONORS

### PROFESSIONAL RECOGNITION:

**Associate Fellow\***, American Laryngological Association ¥. 2013

\* Associate fellowship of the American Laryngological Association recognizes non-physicians for distinguished contributions to the field of laryngology, care of patients with disorders of the larynx and upper aerodigestive tract, and for contributions to the teaching of laryngology in medical schools and post-graduate medical education.

**Fellow\***, American Speech-Language-Hearing Association ¥. 2014

\* Fellowship is one of the highest honors bestowed by the American Speech-Language-Hearing to recognize outstanding contributions to the discipline of communication sciences and disorders. ¥ Dr. Rousseau is one of only 10 individuals to ever become elected fellow of both societies.

**Chancellor Faculty Fellow**, Vanderbilt University 2015-2017

Discretionary funds awarded to an inaugural class of 15 faculty members across the humanities, social sciences, natural and physical sciences, and the clinical sciences as well as engineering, law and music as a show of commitment of the Chancellor to support mid-career faculty, advance trans-institutional scholarship, and propel the goals and aspirations as outlined in the academic strategic plan. Faculty members hold the title of Chancellor Faculty Fellow for two years and are supported by an allocation of \$40,000 a year for two years to support innovative research, scholarship and creative expression that further propel the career of the awardee.

### ALUMNI RECOGNITION:

Outstanding Alumni Award, University of Central Florida,  
Department of Communication Sciences and Disorders. 2013

Professional Achievement Award 2015  
University of Central Florida  
College of Health and Public Affairs.

**TEACHING AWARDS:**

Recipient of the Elaine Sanders-Bush Award for EXCELLENCE IN TEACHING (Mentoring Graduate and/or Medical Students in the Research Setting). 2014

**RESEARCH AWARDS and HONORS:**

Young Faculty/Practitioner Award American Laryngological Association Award for Continuing Education, American Speech-Language-Hearing Association. 2008

Mentor Students Preparing For Academic and Research Careers Award from the American Speech-Language-Hearing Association [master's students in speech-language pathology] 2010

Mentor Students Preparing For Academic and Research Careers Award from the American Speech-Language-Hearing Association [master's students in speech-language pathology] 2010

1<sup>st</sup> place, Poster Presentation entitled "Transepithelial Resistance in the Rabbit Vocal fold." Presented at the American Bronchoesophagological Association Spring Meeting. San Diego, CA USA. 2012

Invited Participant Clinical Practice Research Institute (CPRI) American Speech-Language Hearing Association Rockville, MD USA. 2013

1<sup>st</sup> place, Poster Presentation entitled "The Natural Time Course of Post-Microflap Healing and Restoration of Vibratory Function Following Vocal Fold Microflap Surgery in a Rabbit Model." Presented at the American Laryngological Association Spring Meeting. Orlando, FL USA. 2013

Best Paper Award Paper entitled “A 3D Numerical Simulation of Wave Propagation on the Vocal Fold Surface.” Presented at the 10 <sup>th</sup> International Advances in Quantitative Laryngology, Voice and Speech Research. Cincinnati, OH USA.	2013
Award for Continuing Education, American Speech-Language-Hearing Association.	2013
Resident Research Competition, 3 <sup>rd</sup> place, Lesley F. Childs (resident research fellow), 16 <sup>th</sup> Annual Adams Lectureship in Otolaryngology /Resident Recognition Weekend Vanderbilt University of School Medicine.	2008
Resident Research Competition, 3 <sup>rd</sup> place, Erik R. Swanson (resident research fellow), 17 <sup>th</sup> Annual Adams Lectureship in Otolaryngology/Resident Recognition Weekend Vanderbilt University of School Medicine.	2009
Junior Faculty Leadership Development Program, Vanderbilt University School of Medicine	2009
Resident Research Competition, 1 <sup>st</sup> place, Joseph E. Hall (resident research fellow), 19 <sup>th</sup> Annual Adams Lectureship in Otolaryngology/Resident Recognition Weekend Vanderbilt University of School Medicine	2011
Resident Research Competition, 2 <sup>nd</sup> place, Harry V. Wright (resident research fellow), 19 <sup>th</sup> Annual Adams Lectureship in Otolaryngology/Resident Recognition Weekend Vanderbilt University of School Medicine.	2011
Resident Research Competition, 1 <sup>st</sup> place, Joshua Mitchell (resident research fellow), 21 <sup>st</sup> Annual Adams Lectureship in Otolaryngology/Resident Recognition Weekend Vanderbilt University of School Medicine	2013

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## PUBLICATIONS

### Refereed articles

1. **Rousseau B**, & Watts C.R. Susceptibility of speakers with Parkinson disease to delayed feedback. *Journal of Medical Speech Language Pathology*. 2002; 10 (1), 41-49.
2. Welham NV, **Rousseau B**, Ford CN, Bless DM. Tracking outcomes after phonosurgery for sulcus vocalis: A case report. *Journal of Voice*. 2003; 17(4): 571-578. PMID:14740937
3. Hirano S, Bless DM, **Rousseau B**, Welham NV, Scheidt TD, Ford CN. Fibronectin and adhesion molecules on canine scarred vocal folds. *Laryngoscope*. 2003; 113: June: 966-972. PMID:12782806
4. **Rousseau B**, Hirano S, Scheidt T.D, Welham N.V, Thibeault S.L, Bless D.M, Chan R.W. Characterization of vocal fold scarring in a canine model. *Laryngoscope*. 2003; 113: April: 620-627. PMID:12671417
5. Hirano S, Bless DM, **Rousseau B**, Welham NV, Montequin DM, Ford CN. Prevention of vocal fold scarring by topical injection of hepatocyte growth factor in a rabbit model. *Laryngoscope*. 2004; 114 (3): 548-556. PMID:15091233
6. Thibeault SL, **Rousseau B**, Welham NV, Hirano S, Bless D.M. Hyaluronan levels in acute vocal fold scar. *Laryngoscope*. 2004; 114: April: 760-764. PMID:15064637
7. **Rousseau B**, Hirano S, Chan RW, Welham N.V, Thibeault S.L, Bless D.M, Ford C.N. Characterization of chronic vocal fold scarring in a rabbit model. *Journal of Voice*. 2004; 18 (1): 116-124. PMID:15070231
8. Hirano S, Bless DM, Nagai H, **Rousseau B**, Welham NV, Montequin DM, Ford CN. Growth factor therapy for vocal fold scarring in a canine model. *Annals of Otolaryngology, Rhinology, and Laryngology*. 2004; 113 (10): 777-785. PMID:15535139
9. **Rousseau B**, Sohn J, Montequin D.W, Tateya I, Bless D.M. Functional outcomes of reduced hyaluronan in acute vocal fold scar. *Annals of Otolaryngology, Rhinology, and Laryngology*. 2004;113 (10): 767-776. PMID:15535138
10. **Rousseau B**, Tateya I, Lim X, Munoz-del-Rio A, Ford C.N, Bless D.B. Investigation of anti-hyaluronidase treatment on vocal fold wound healing. *Journal of Voice*. 2006; 20 (3): 443-451. PMID:16243482
11. **Rousseau B**, Ge P, French LC, Zeale DL, Thibeault SL, Ossoff RH. Experimentally induced phonation increases matrix metalloproteinase-1 gene expression in normal rabbit vocal fold. *Otolaryngology-Head and Neck Surgery*. 2008; 138: 62-68. PMC2912225. PMID: 18164995
12. **Rousseau B**, Ge P, Ohno T, French LC, Thibeault SL. Extracellular matrix gene expression after vocal fold injury in a rabbit model. *Annals of Otolaryngology, Rhinology, and Laryngology*. 2008; 117(8): 598-603. PMID:18771077
13. Ohno T, French LC, Hirano S, Ossoff RH, **Rousseau B**. Effect of hepatocyte growth factor on gene expression of extracellular matrix during wound healing of the injured rat vocal fold. *Annals of Otolaryngology, Rhinology, and Laryngology*. 2008; 117(9): 696-702. PMID:18834074
14. Ge P, French LC, Ohno T, Zeale DL, **Rousseau B**. Model of evoked rabbit phonation. *Annals of Otolaryngology, Rhinology, and Laryngology*. 2009; 118:51-5. PMID:19244964

15. Ohno T, Hirano S, **Rousseau B**. Gene expression of transforming growth factor- $\beta$ 1 and hepatocyte growth factor during wound healing of injured rat vocal fold. *Laryngoscope*. 2009; 119(4): 806-810. PMID:19213039
16. Ohno T, Hirano S, **Rousseau B**. Extracellular matrix gene expression during wound healing of the injured rat vocal fold. *Otolaryngology-Head and Neck Surgery*. 2009; 140(5): 757-761. PMID:19393425
17. Ohno T, Yoo M, Swanson ER, Hirano S, Ossoff RH, **Rousseau B**. Regeneration of Aged Rat Vocal Folds using Hepatocyte Growth Factor Therapy. *Laryngoscope*. 2009; 119(7): 1424-1430. PMC3056162. PMID: 19507223
18. Swanson ER, Abdollahian D, Ohno T, Ge P, Zeale DL, **Rousseau B**. Characterization of raised phonation in an evoked rabbit phonation model. *Laryngoscope*. 2009; 119(7): 1439-1443. PMID:19422027
19. Ohno T, Yoo M, Swanson ER, Hirano S, Ossoff RH, **Rousseau B**. Regenerative effects of basic fibroblast growth factor on extracellular matrix production in aged rat vocal folds. *Annals of Otolaryngology, Rhinology, and Laryngology*. 2009;118(8): 559-64. PMC2782572.PMID:19746753
20. Ohno T, Hirano S, **Rousseau B**. Age-associated changes in the expression and deposition of collagen and hyaluronan in rat vocal folds. *Annals of Otolaryngology, Rhinology, and Laryngology*. 2009; 118(10): 735-741. PMC2782757. PMID:19894402
21. Suehiro A, Hirano S, Kishimoto Y, Tateya T., **Rousseau B**, Ito J. Effects of basic fibroblast growth factor on rat vocal fold fibroblasts. *Annals of Otolaryngology, Rhinology, and Laryngology*. 2010;119(10): 690-6. PMID:21049855
22. Suehiro A, Hirano S, Kishimoto Y, **Rousseau B**, Nakamura T, Ito J. Treatment of acute vocal fold scar with local injection of basic fibroblast growth factor: A canine study. *Acta Oto-Laryngologica*. 2010; 130(7):844-50. PMID:20082571
23. Singh V, Cohen SM, **Rousseau B**, Noordzij JP, Garrett CG, Ossoff RH. Acute dysphonia secondary to vocal fold hemorrhage after vardenafil use. *Ear, Nose, & Throat Journal*. 2010;89(6): E21-2. PMID:20556726
24. Swanson ER, Ohno T, Abdollahian D, Garrett CG, **Rousseau B**. Effects of raised intensity phonation on inflammatory mediator gene expression in normal rabbit vocal fold. *Otolaryngology-Head and Neck Surgery*. 2010;143(4): 567-72. PMC2923810. PMID:20879195
25. Suehiro A, Hirano S, Kishimoto Y, **Rousseau B**, Nakamura T, Ito J. Treatment of acute vocal fold scar with local injection of basic fibroblast growth factor: a canine study. *Acta Otolaryngol*. 2010;130(7): 844-50. PMID:20082571
26. Watts CR, Marler J, **Rousseau B**. Qualitative characterization of elastic fiber distribution in the mouse vocal fold: Further Development of an Animal Model. *Journal of Voice*. 2011; 25(1): e1-6. PMID:20137895
27. **Rousseau B**, Cohen SM, Zeller AS, Scarce L, Tritter AG, Garrett CG. Compliance and quality of life in patients on prescribed voice rest. *Otolaryngology-Head and Neck Surgery*. 2011;144(1): 104-107.PMID:21493397
28. **Rousseau B**, Suehiro A, Echemendia N, Sivasankar M. Raised intensity phonation compromises vocal fold epithelial barrier integrity. *Laryngoscope*. 2011; 121(2):346-351. NIHMS PMC – In Process. PMID:21271586

29. Suehiro A, Wright HV, **Rousseau B** . Optimal concentration of hepatocyte growth factor for treatment of the aged rat vocal fold. *Laryngoscope*.2011; 121(8): 1726-34. PMID:21792961
30. Suehiro A, Bock JM, Hall JE, Garrett CG, **Rousseau B**. Feasibility and acute healing of vocal fold microflap incisions in a rabbit model. *Laryngoscope*. 2012;122(3): 600-5. PMC3387431. PMID:22253007
31. Hall JE, Suehiro A, Branski RC, Garrett CG, **Rousseau B**. Modulation of inflammatory and pro-fibrotic signaling in a rabbit model of acute phonotrauma using triamcinolone. *Otolaryngology-Head and Neck Surgery*. 2012; 147(2):302-7. PMID:22399283
32. Rohde SL, Wright CT, Muckala JC, Wiggleton J, **Rousseau B**, Netterville JL. Voice quality after RLN resection and immediate reconstruction. *Otolaryngology-Head and Neck Surgery*. 2012;May 22 PMID:22619256
33. **Rousseau B** & Watts CR. Slippery Elm, its Biochemistry, and use as a Complementary and Alternative Treatment for Laryngeal Irritation. *Journal of Investigational Biochemistry*. 2012;1(1):17-23.
34. Li Y, Pearce EC, Mainthia R, Athavale SM, Dang J, Ashmead DH, Garrett CG, **Rousseau B**, Billante CR, Zealear DL Comparison of ventilation and voice outcomes between unilateral laryngeal pacing and unilateral cordotomy for the treatment of bilateral vocal fold paralysis. *ORL J Otorhinolaryngol Relat Spec*. 2013;75(2): 68-73.PMID:23736349
35. Mitchell JR, Kojima T, Garrett CG, **Rousseau B**. Biochemical Basis of Vocal Fold Mobilization after Microflap in a Rabbit Model. *Laryngoscope*.2013; 124(2):487–493. PMID:23775575
36. Chang S, Tian F, Luo H, Doyle JF, **Rousseau B**. The role of finite displacements in vocal fold modeling. *Journal of Biomechanical Engineering*. 2013;135(11):111008-8. doi: 10.1115/1.4025330.PMID: 24008392
37. Kojima T, Mitchell JR, Garrett CG, **Rousseau B**. Recovery of vibratory function after vocal fold microflap in a rabbit model. *Laryngoscope*. 2014;124(2):481–486 PMID:23901003
38. Tian F, Dai H, Luo H, Doyle JF, **Rousseau B**. Fluid-structure interaction involving large deformations: 3D simulations and applications to biological systems. *Journal of Computational Physics*.2014;258: 451-469.PMID:24415796
39. Kojima T, Van Deusen M, Jerome WG, Garrett CG, Sivasankar M, Novaleski CK, **Rousseau B**. Quantification of Acute Vocal Fold Epithelial Surface Damage with Increasing Time and Magnitude Doses of Vibration Exposure. *PLOS ONE*. March 2014; Volume 9, Issue 3, e91615.PMID:2462621740.
40. Awan S, Novaleski CK, **Rousseau B**. Nonlinear Analyses of Elicited Modal, Raised, and Pressed Rabbit Phonation. *Journal of Voice*. 2014; 28(5):538-47.PMID:24836360 41. Pearce EC,
41. Hall JE, Boyd KL, Beddow P, **Rousseau B**, Ries WR. The ophthalmology microscalpel versus standard scalpels and wound healing in a rat model. *Otolaryngology Head and Neck Surgery*. 2014; May 27 PMID:24866476
42. Kojima T, Valenzuela CV, Novaleski CK, Van Deusen M, Mitchell JR, Garrett CG, Sivasankar M, **Rousseau B**. Effects of Phonation Time and Magnitude Dose on Vocal Fold Epithelial Genes, Barrier Integrity, and Function. *Laryngoscope*. 2014;124(12):2770-8. PMID:25073715

43. **Rousseau B**, Gutmann ML, Mau T, Francis DO, Johnson JP, Novaleski CK, Vinson KN, Garrett CG. Randomized controlled trial of supplementary text-to-speech augmentative and alternative communication during voice rest. *Otolaryngology-Head and Neck Surgery*.2015; 152(3):494-500. PMID:25605690
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50. Mizuta M, Kurita T, Dillon NP, Kimball EE, Garrett CG, Sivasankar MP, Webster RJ III, **Rousseau B**. In-Vivo Measurement of Vocal Fold Surface Resistance. *Laryngoscope*.2017; 127(10): E364-E370.PMID:28573762
51. Kraja I, Bing R, Hiwatashi N, **Rousseau B**, Nalband D, Kirshenbaum K, Branski RC.A novel transfection modality for in vivo siRNA delivery to vocal fold fibroblasts. *Laryngoscope*.2017; 127(7):E231-E237.PMID:27996099
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58. Kimball EE, Sayce L, Powell M, Gartling G, Brandley J, **Rousseau B** (in press). Different vibratory conditions elicit different structural and biological vocal fold changes in an in-vivo rabbit model of phonation. *Journal of Voice*.
59. Chen Y, Zheng L, Chang S, **Rousseau B**, Luo H (in press). A reduced-order flow model for vocal fold vibration: from idealized to subject-specific models. *Journal of Fluids and Structures*.
60. Kimball EE, Sayce L, Xu C, Kruszka C, **Rousseau B** (2020) Protein substrate alters cell physiology in primary culture of vocal fold epithelial cells. *Cells, Tissues, Organs*.
61. Li Zheng, Chen Ye, Chang Siyuan, **Rousseau B**, Luo Hoaxiang. A one-dimensional flow model enhanced by machine learning for simulation of vocal fold vibration. *The Journal of the Acoustical Society of America*. 2020
62. Kimball EE, Sayce L, Luo H, Khosla SM, **Rousseau B** (in press) Medialization Laryngoplasty: A Review for Speech-Language Pathologists. *Journal of Speech, Language, and Hearing Research*.
63. Gartling, G, Sayce L, Kimball EE, Sueyoshi Shintaro, **Rousseau B** (2020) A Comparison of the Localization of Integral Membrane Proteins in Human and Rabbit Vocal Folds, *The Laryngoscope*.
64. Doyle C, Nakamura R, Bing R, **Rousseau B**, Branski R (submitted) Mycoplasma affects baseline gene expression and the response to glucocorticoids in vocal fold fibroblasts, by *Journal of Medical Microbiology*.

### Invited Published Papers

1. Friedman JG, Johnson JP, Novaleski CK, **Rousseau B**. (2013) Perioperative voice recovery: adherence to treatment, quality of life, and patient personality. *Perspectives on Voice and Voice Disorders*. 23(2): 61-65.

### Proceedings of Conference and Symposia

1. Tian F, Chang S, Luo H, **Rousseau B**. (2013) A 3D numerical simulation of wave propagation on the vocal fold surface. *Proceedings of the 10<sup>th</sup> International Conference on Advances in Quantitative Laryngology, Voice and Speech Research*. June 3-4, 2013, Cincinnati, Ohio, USA.

### Books

1. **Rousseau B.** & Branski RB. (2018). *Anatomy and Physiology of Speech and Hearing*. Thieme Medical Publishers, Inc.

## Book Chapters

1. Sapienza C, Ruddy B, **Rousseau B.** (2012) Laryngeal Anatomy and Physiology. In C. Sapienza and B. Ruddy (Eds.), *Voice Disorders* (Chapter 2). San Diego, CA: Plural Publishing.
2. Powell, ME, **Rousseau B.** (2020) Vocal Fold Scar (Chapter 30). In Braden M, McMurray JS, Hoffman M (Eds.), *Multidisciplinary Management of Pediatric Voice and Swallowing Disorders*. 2<sup>nd</sup> edition, New York, NY: Springer Publishing.

## Published abstracts

1. Welham NV, **Rousseau B.**, Ford CN, Bless DM. (November 2002). Tracking outcomes following phonosurgery for sulcus vocalis: A case study. Presented at the Annual Convention of the American Speech-Language Hearing Association, Atlanta, GA.
2. Hirano S., Jiang J., Montequin DM, **Rousseau B.**, Welham NV, Bless DM., Ford CN. (May 2003). Participation of vocal ligament and thyroarytenoid muscle in vocal fold vibration. Presented at the Annual Meeting of the American Laryngological Association, Nashville, TN.
3. Hirano S., Bless DM, Rousseau B., Welham NV, Ford CN. (June 2003). Prevention of vocal fold fibrotic scar by topical injection of hepatocyte growth factor. Presented at the Voice Foundation's 32<sup>nd</sup> Annual Symposium: Care of the Professional Voice, Philadelphia, PA.
4. Welham NV, **Rousseau B.**, Hirano S., Montequin DM, Bless DM. (August 2003). Characterizing vocal fold scarring using animal and excised larynx models. Presented at the 5th Pan European Voice Conference, Graz, Austria.
5. **Rousseau B.**, Hirano S., Chan RW., Welham NV., Thibeault SL., Bless DM., Ford CN. (June 2003) Characterization of chronic vocal fold scarring in a rabbit model. Presented at the Voice Foundation's 32<sup>nd</sup> Annual Symposium: Care of the Professional Voice, Philadelphia, PA.
6. **Rousseau B.** (October 2003) Characterization of vocal fold scarring. Presented at the Communicative Disorders Professional Seminar. Madison, WI.
7. **Rousseau B.**, Tateya I., Lim XinHong, Munoz A., Bless DM. (November 2003) Cell culture investigation of Echinacea on hyaluronan production by vocal fold fibroblasts. Presented at the 13<sup>th</sup> Annual NIDCD-Sponsored Research Symposium "Outcomes Research & Evidence Based Practice", Chicago, IL.
8. **Rousseau B.** Hirano S. Montequin DW. Welham NV, Bless DM, Ford CN. (November 2003) Vocal fold scar vibratory & histologic properties: Pig Model. Presented at the American Speech-Language-Hearing Association, Chicago, IL.
9. **Rousseau B.**, Sohn J., Montequin D.W., Tateya I., Bless D.M. (May 2004). Functional Outcomes of Reduced Hyaluronan Levels in the Scarred Vocal Fold. Presented at the American Laryngological Association Spring Meeting. Phoenix, AZ.
10. **Rousseau B.** Tateya I., Lim XinHong, Bless DM. (June 2004) Role of interstitial proteins in chronic vocal fold scar. Presented at the Voice Foundation's 33<sup>rd</sup> Annual Symposium: Care of the Professional Voice, Philadelphia, PA.

11. **Rousseau B.**, Tateya I., Lim XinHong, Munoz A., Bless DM. (June 2004) An investigation of plant based medicine for wound healing. Presented at the Voice Foundation's 33rd Annual Symposium: Care of the Professional Voice, Philadelphia, PA.
12. **Rousseau B.**, Tateya I., Sohn J., Welham NV, Ford CN, Bless DM. (September 2004). Treatment of vocal fold scar with ACP HA gel. Presented at the American Academy of Otolaryngology-Head-Neck Surgery. New York, NY.
13. Schuele CM, Hadley P., **Rousseau B.**, Oller DK., Thibodeau L. (November 2005) Thinking about a Ph.D.? An information session for prospective doctoral students. Presented at the American Speech-Language-Hearing Association. San Diego, CA.
14. Feeney P., Hogan T., Lin R., **Rousseau B.**, Thomas-Tate S. (November 2005) The Write Stuff: Lessons for Success in Research Funding. Presented at the American Speech-Language-Hearing Association. San Diego, CA.
15. Singh V., Cohen SM., **Rousseau B.**, Noordzij JP, Garrett CG, Ossoff RH. (January 2006). Acute dysphonia after vardenafil use. Presented at the Triological Society, Southern Section, Naples, FL.
16. **Rousseau B.** (October 2006). Voice Rest: Science or Voodoo? Presented at the UCSF Voice Conference. San Francisco, CA.
17. **Rousseau B.**, Ge P., Zelear DL, Thibeault SL., Ossoff RH. (September 2007). Phonation upregulates matrix metalloproteinase gene expression in normal vocal fold. Presented at the American Academy of Otolaryngology-Head and Neck Surgery. Washington, DC.
18. Plante E., Schuele M., **Rousseau B.**, Chiasson K., Marler J. (November 2007). Thinking about a Ph.D.? Information session for prospective doctoral students. Presented at the Annual Convention of the American Speech-Language Hearing Association, Boston, MA.
19. Ohno T, French LC, Hirano S, Ossoff RH, **Rousseau B.** (May 2008) The effect of hepatocyte growth factor on gene expression of extracellular matrix during wound healing of the injured rat vocal fold. Presented at the American Bronchoesophagological Association Spring Meeting. Orlando, FL.
20. Ge P., French LC, Ohno T, Zelear DL., **Rousseau B** (May 2008). Model of Evoked Rabbit Phonation. Presented at the American Bronchoesophagological Association Spring Meeting. Orlando, FL.
21. **Rousseau B**, Ge P, Ohno T, French LC, Garrett CG, Ossoff RH. (May 2008). Extracellular matrix gene expression after vocal fold injury in a rabbit model. Presented at the American Laryngological Association Spring Meeting. Orlando, FL. Recipient of the Young Faculty/Practitioner Award.
22. Watts CR, **Rousseau B** (May 2008). The biochemistry of slippery elm (*ulmus rubra*) and its use as a complementary and alternative medicine. Presented at the Voice Foundation's 37th Annual Symposium: Care of the Professional Voice, Philadelphia, PA.
23. **Rousseau B**, Ge P, Ohno T, French LC, Thibeault SL, Ossoff RH. (May 2008). Investigation of experimental induced phonation on gene expression of the vocal fold 48 hours after injury. Presented at the Voice Foundation's 37th Annual Symposium: Care of the Professional Voice, Philadelphia, PA.
24. Ohno T, Hirano S, **Rousseau B.** Gene expression of transforming growth factor- $\beta$ 1 and hepatocyte growth factor during wound healing of injured rat vocal fold. (July 2008).

- Presented at the International Conference on Advances in Laryngeal Biophysiology. Madison, WI.
25. French LC, Ohno T, Majdani O, Zealear DL, Labadie R, **Rousseau B**. (September 2008). Localization of phonation integration center in rabbits. Presented at the American Academy of Otolaryngology-Head and Neck Surgery. Chicago, IL.
  26. **Rousseau B**, Ge P, French LC, Ohno T, Zealear DL, Ossoff RH. (September 2008). Nerve Induced Rabbit Phonation: Temporal Phonation Stability. Presented at the American Academy of Otolaryngology-Head and Neck Surgery. Chicago, IL.
  27. **Rousseau B**, Ohno T, Childs LC, Garrett CG, Davidson JF, Hirano S. (October 2008). Expression of genes coding hyaluronan, transforming growth factor-beta1, and procollagen types -I and -III in aged-rat vocal folds. Presented at the University of California-San Francisco Voice Conference. San Francisco, CA.
  28. **Rousseau B**, Ohno T, Childs LC. (November 2008). Extracellular Matrix Gene Expression during Remodeling of Vocal Fold Injury. Presented at the American Speech Language Hearing Association. Chicago, IL.
  29. **Rousseau B**, Spencer K., Branski R, Sivasankar M. (November 2008). Success in Academia: Perspectives from Junior Faculty. Presented at the American Speech Language Hearing Association. Chicago, IL.
  30. Ohno T, Yoo M, Swanson ER, Hirano S, Ossoff RH, **Rousseau B** (May 2009). Regeneration of Aged Rat Vocal Folds using Hepatocyte Growth Factor. Presented at the American Laryngological Association Spring Meeting. San Diego, CA. Recipient of the Young Faculty/Practitioner Award.
  31. Ohno T, Hirano S, **Rousseau B** (May 2009). Age-associated changes in matrix metalloproteinase gene expression in aged rat vocal folds. Presented at the American Bronchoesophagological Association Spring Meeting. San Diego, CA.
  32. Ohno T, Yoo M, Swanson ER, Hirano S, Ossoff RH, **Rousseau B** (May 2009). Regenerative Effect of basic Fibroblast Growth Factor on Extracellular Matrix in Aged Rat Vocal Folds. Presented at the American Bronchoesophagological Association Spring Meeting. San Diego, CA.
  33. Swanson ER, Abdollahian D, Ohno T, Ge P, Zealear DL, **Rousseau B** (May 2009) Characterization of discrete phonation qualities in an evoked rabbit phonation model. Presented at the American Laryngological Association Spring Meeting. San Diego, CA.
  34. Swanson ER, Ohno T, Abdollahian D, Garrett CG, **Rousseau B** (October 2009). Effects of raised intensity phonation on vocal fold gene expression. Presented at the American Academy of Otolaryngology-Head and Neck Surgery. San Diego, CA.
  35. Abdollahian D, Swanson ER, **Rousseau B** (October 2009). Jitter and shimmer analysis of discrete phonation types in an evoked rabbit phonation model. Presented at the American Academy of Otolaryngology-Head and Neck Surgery. San Diego, CA.
  36. Yoo M, Ohno T, Garrett CG, Ossoff RH, **Rousseau B** (October 2009). Age related fibroblast responses to vocal fold injury. Presented at the American Academy of Otolaryngology-Head and Neck Surgery. San Diego, CA.
  37. Branski RC, Sivasankar P, **Rousseau B**, Thomas L (November 2009). Innovation in voice: from bench to the clinic. Presented at the American Speech Language Hearing Association. New Orleans, LA.

38. Branski RC, Murry T, **Rousseau B** (November 2009). Voice rest: when, why, and how much. Presented at the American Speech Language Hearing Association. New Orleans, LA.
39. **Rousseau B**, Spaulding T, Johnson K, Ruddy B, Fridriksson J (November 2009). Success in academia: perspectives from junior and mid-career level faculty. Presented at the American Speech Language Hearing Association. New Orleans, LA.
40. **Rousseau B**, Cohen SM, Zeller AS, Tritter AG, Garrett CG (September 2010). Compliance and quality of life in patients on voice rest. Presented at the American Academy of Otolaryngology-Head and Neck Surgery. Boston, MA.
41. **Rousseau B**, Garrett CG, Vaezi MF, Jacobson B (November 2010). Diagnosis and treatment of chronic hoarseness: A multispecialty perspective. Presented at the American Speech Language Hearing Association. Philadelphia, PA.
42. Suehiro A, Wright HV, **Rousseau B** (April 2011). Optimal concentration of hepatocyte growth factor for treatment of the aged rat vocal fold. Presented at the American Laryngological Association Spring Meeting. Chicago, IL.
43. **Rousseau B**, Suehiro A, Echemendia N, Sivasankar M (2011). Raised intensity phonation compromises vocal fold epithelial barrier integrity. Presented at the American Laryngological Association Spring Meeting. Chicago, IL.
44. Awan S, **Rousseau B** (2011). Non-linear analyses of elicited modal, raised, and pressed rabbit phonation. Presented at the American Speech Language Hearing Association. San Francisco, CA.
45. Hall JE, Pearce EC, **Rousseau B**, Ries R (2012) The effects of the ophthalmology microsurgical in comparison with electrocautery and standard scalpels on wound healing in a rat model. Presented at the American Academy of Facial Plastic and Reconstructive Surgery. San Diego, CA.
46. Van Deusen MB, Kojima T, Denton JS, Wu H, Erickson-Levendoski, E., Sivasankar MP, **Rousseau B** (2012) Transepithelial Resistance in the Rabbit Vocal Fold. Presented at the American Bronchoesophagological Association Spring Meeting. San Diego, CA.
47. Kojima T, Van Deusen MB, Jerome WG, Garrett CG, Sivasankar MP, **Rousseau B** (2012) Effects of Phonation on Epithelial Morphology. Presented at the American Bronchoesophagological Association Spring Meeting. San Diego, CA.
48. **Rousseau B**, Kojima T, Van Deusen MV, Mitchell JR, Jerome WG, Garrett CG, Sivasankar M (2012) Effects of Increasing Phonation Time and Magnitude Dose on Vocal Fold Epithelial Morphology. Presented at the 8<sup>th</sup> International Conference on Voice Physiology and Biomechanics. Erlangen, Germany.
49. Watts CR & **Rousseau B** (2012) Vocal Fold Elastin in Transgenic and Knockout Mouse Models. Presented at the Fall Voice Conference. New York, NY.
50. Chang S, Tian F, Luo H, Kojima T, **Rousseau B**. (2012) Toward an integrated approach for modeling evoked rabbit phonation. Presented at the Fall Voice Conference. New York, NY.
51. Kojima T, Mitchell JR, **Rousseau B**. (2012) Early versus Delayed vocal fold mobilization: High-speed videoendoscopic evaluation of vibration in an evoked rabbit phonation model. Presented at the Fall Voice Conference. New York, NY.
52. Johnson J, Gutmann M, Friedman J, Zeller A, De Riesthal M, Francis D, Garrett CG, Vinson K, **Rousseau B**. (2012) Voice Rest and Alternative Communication: A

- Feasibility Study. Presented at the American Speech-Language Hearing Association Annual Meeting. Atlanta, GA.
53. Friedman J, Johnson J, Zeller A, Conture E, Roy N, Garrett CG, **Rousseau B.** (2012) Personality and Compliance with Voice Rest. Presented at the American Speech-Language Hearing Association Annual Meeting. Atlanta, GA.
  54. Mitchell JR, Kojima T, Garrett CG, **Rousseau B.** (2013) Biochemical Basis of Vocal Fold Mobilization after Microflap in a Rabbit Model. Presented at the Triological Society Combined Sections Meeting. Scottsdale, AZ.
  55. Kojima T, Mitchell JR, Garrett CG, **Rousseau B.** (2013) The Natural Time Course of Post-Microflap Healing and Restoration of Vibratory Function Following Vocal Fold Microflap Surgery in a Rabbit Model. Presented at the American Laryngological Association Spring Meeting. Orlando, FL.
  56. Tian F, Chang S, Luo H, **Rousseau B** (2013) A 3D numerical simulation of wave propagation on the vocal fold surface. Presented at the 10<sup>th</sup> International Conference on Advances in Quantitative Laryngology, Voice and Speech Research. Cincinnati, OH.
  57. Tian F, Chang S, Luo H, **Rousseau B** (2013) Computational modeling of flow-induced vocal fold vibration. Presented at the Annual ORNL Biomedical Science and Engineering Conference, Oak Ridge, TN.
  58. Tian F, Dai H, Luo H, Doyle JF, **Rousseau B** (2013) Computational fluid-structure interaction for biological and biomedical flows. Presented at the ASME Fluids Engineering Division Summer Meeting. Incline Village, NV.
  59. Chang S, Tian F, Luo H, Doyle JF, Kojima T, **Rousseau B** (2013) CFD Modeling of the Vocal Fold Vibration for Evoked Rabbit Phonation. Presented at the American Society of Mechanical Engineers (ASME) District F – Early Career Technical Conference. Birmingham, AL.
  60. Suehiro A, Kojima T, **Rousseau B.** (2014) Distribution of Fibroblast Growth Factor Receptors in Normal Rat Vocal Fold. Presented at the American Laryngological Association Spring Meeting. Las Vegas, NV.
  61. Kojima T, Novaleski CK, Valenzuela CV, Garrett CG, **Rousseau B** (2014) Effects of Increased Phonation Time and Magnitude Dose on Vocal Fold Epithelial Tight and Adherens Junction Gene Expression. Presented at the American Laryngological Association Spring Meeting. Las Vegas, NV.
  62. Valenzuela CV, Kojima T, Novaleski CK, Garrett CG, **Rousseau B** (2014) Inflammatory and Junctional Complex Gene Expression during the Early Phases of Wound Repair Following Acute Phonotrauma. Presented at the American Bronchoesophagological Association Spring Meeting. Las Vegas, NV.
  63. Novaleski CK, Kojima T, Luo H, Chang S, Colvin D, Does M, **Rousseau B** (2014) High-Resolution Microimaging of a Rabbit Larynx: Toward the Development of a Three-Dimensional Computational Model to Quantify Mechanical Stresses during Phonotrauma. Presented at the 9<sup>th</sup> International Conference on Voice Physiology and Biomechanics. Salt Lake City, UT.
  64. Valenzuela CV, Kojima T, Greene S, Dharamsi L, Novaleski C, Garrett CG, **Rousseau B** (2014) Characterizing the vocal fold epithelial response to recovery following phonation-induced trauma at the transcriptional level. Presented at the American Academy of Otolaryngology-Head and Neck Surgery Annual Meeting. Orlando, FL.

65. Valenzuela CV, Novaleski C, **Rousseau B** (2014) Use of Alternative Communication Modalities during Postoperative Voice Rest. Presented at the Fall Voice Conference. San Antonio, TX.
66. Chang S, Luo H, Novaleski C, **Rousseau B** (2014) Combining subject-specific and low-order modeling techniques to study fluid-structure interaction of rabbit phonation. Presented at the 67<sup>th</sup> Annual Meeting of the American Physical Society Division of Fluid Dynamics. San Francisco, CA.
67. Novaleski C, Kojima T, Valenzuela CV, Chang S, Luo H **Rousseau B** (2014) In Vivo Suture Model to Elicit Rabbit Phonation. Presented at the Fall Voice Conference. San Antonio, TX.
68. Kojima T, Mizuta M, Valenzuela CV, Novaleski CK, Garrett CG, **Rousseau B** (2015) Morphological Recovery of Rabbit Vocal Fold Epithelium After Acute Phonotrauma. Presented at the American Bronchoesophagological Association Spring Meeting, Boston, MA.
69. Mizuta M, Novaleski CK, **Rousseau B** (2015) Isolation, Cell Culture, and Characterization of Vocal Fold Epithelial Cells of Rabbits. Presented at the American Bronchoesophagological Association Spring Meeting, Boston, MA.
70. Novaleski CK, Mizuta M, **Rousseau B** (2015) Expression of Apoptosis along the Apical Surface of Vocal Fold Epithelium. Presented at the 11<sup>th</sup> International Conference on Advances in Quantitative Laryngology, Voice and Speech Research, London, UK.
71. Mizuta M, Newcomb D, **Rousseau B**, Garrett CG, Netterville JL, Wooten CT, Francis DO, McGreggor TL, Blackwell TS, Gaddy JA, Drake WP, Gelbard A (2015) Human Large Airway Remodeling in Tracheal Stenosis is Differentially Shaped by the Host-Pathogen Interface. Presented at the Vanderbilt Infection and Immunology Conference.
72. Novaleski CK, King R, **Rousseau B** (2015) Reflective Learning: A Model of Implementing Voice Instrumentation in Graduate Coursework. Presented at the American Speech-Language Hearing Association Annual Meeting. Denver, CO.
73. **Rousseau B**, Craig J, Gherson S, Branski RC (2015) Assessment and Treatment of Vocal Fold Lesions: Pearls and Pitfalls. Presented at the American Speech-Language Hearing Association Annual Meeting. Denver, CO.
74. Storkel H, **Rousseau B**, Yoder P, Smith A, Camarata S (2015) Writing Successful Research Grant Applications in Communication Sciences and Disorders: Advice from Experts. Presented at the American Speech-Language Hearing Association Annual Meeting. Denver, CO.
75. King R, Novaleski CK, Cleveland TF, Garrett CG, **Rousseau B** (2015) Outcomes of Voice Rest after Microflap Surgery for Benign Vocal Fold Lesions. Presented at the Fall Voice Conference. Pittsburgh, PA.
76. Kraja I, Bing R, Hiwatashi N, **Rousseau B**, Kirschenbaum K, Branski RC (2016) A novel delivery molecule for siRNA transfection in vocal fold fibroblasts. Presented at the American Laryngological Association Spring Meeting, Chicago, IL.
77. Novaleski CK, Kimball EE, Mizuta M, **Rousseau B** (2016) Effects of Time-Doses and Cycle Doses of Acute Vibration Exposure on Apoptotic Cell Death and TNF- $\alpha$  Signaling in the Vocal Fold Epithelium. Presented at the Fall Voice Conference. Scottsdale, AZ
78. Novaleski CK, Carter BD, Sivasankar MP, Ridner SH, Dietrich MS, **Rousseau B** (2016) Apoptosis and Vocal Fold Disease: Clinically Relevant Implications of Cell Death.

- Presented at the American Speech-Language Hearing Association Annual Meeting. Philadelphia, PA.
79. Novaleski CK, Kimball E, Mizuta M, **Rousseau B** (2017) TNF- $\alpha$  Gene and Protein Expression in the Vocal Fold Epithelium after Acute Vibration Exposure. Presented at World Phonocon: Joint Meeting of International Association of Phonosurgery and Indian Association of Phonosurgeons. Gurgaon, India.
  80. Mizuta M, Kurita T, Dillon N, Kimball EE, Garrett CG, Webster RJ, **Rousseau B** (2017) In-Vivo Measurement of Vocal Fold Epithelial Surface Resistance. Presented at American Bronchoesophagological Association Spring Meeting, San Diego CA.
  81. Pitman MJ, Mizuta M, Kurita T, Powell ME, Kimball EE, Novaleski CK, Garrett CG, **Rousseau B** (2017) Histological and Functional Outcomes of Small Intestinal Submucosa and Microflap Elevation for the Treatment of Chronic Vocal Fold Scar. Presented at American Laryngological Association Spring Meeting, San Diego CA.
  82. Powell ME, Kimball EE, **Rousseau B** (2017) How Deep Does Damage Go? Vocal Fold Epithelial and Subepithelial Structures Following Acute Phonotrauma. Presented at American Speech-Language Hearing Association Annual Meeting, Los Angeles CA.
  83. **Rousseau B**, Zeller A, Gherson S, Johns M, Branski RC (2017) Assessment and Treatment of Vocal Fold Lesions: Pearls and Pitfalls. Presented at American Speech-Language Hearing Association Annual Meeting, Los Angeles CA.
  84. **Rousseau B**, Sivasankar MP (2017) Challenges to the vocal folds. Presented at the Fall Voice Conference. Washington, DC.
  85. Kimball EE, Powell ME, Sayce L, **Rousseau B** (2017) Investigating the effects of plate coating proteins on vocal fold epithelial cell proliferation. Presented at the Fall Voice Conference. Washington, DC.
  86. Powell ME, Kimball EE, Sayce L, **Rousseau B** (2017) Effects of phonation magnitude-dose on structural, molecular, and functional changes in rabbit vocal folds. Presented at the Fall Voice Conference. Washington, DC.
  87. Sayce L, Powell ME, Garrett CG, Francis DO, Cohen SM, Mau T, **Rousseau B** (2017) Voice handicap index as a measure of treatment outcomes for phonotraumatic lesions at three tertiary voice clinics: An interim analysis. Presented at the Fall Voice Conference. Washington, DC.
  88. Kimball EE, MS; Sayce L, Powell MR, Brandley J, **Rousseau B** (2018) Damage and Changes to the Vocal Fold Tissue Following Phonation: Effects of Vibratory Closure. Accepted for presentation at the 15<sup>th</sup> Biennial Phonosurgery Symposium. Madison, WI.
  89. Sayce L, Kimball E, Powell M, Sueyoshi S, Gartling G, Brandley J, **Rousseau B** (2018) Molecular Characterization of Glucocorticoid Steroid Treatment on Vocal Fold Physiology. Accepted for presentation at the 15<sup>th</sup> Biennial Phonosurgery Symposium. Madison, WI.
  90. Powell M, Kimball E, Sayce L, Sueyoshi S, **Rousseau B** (2018) The effect of time dose of raised intensity phonation on functional outcomes. Accepted for presentation at the American Laryngological Association Spring Meeting. Washington, DC.
  91. Xu C, Kimball EE, Sayce L, **Rousseau B** (2018) Characterization of acute exposure to glucocorticoid steroids in human and rabbit primary vocal fold epithelial cells. Accepted for presentation at the International Conference on Voice Physiology and Biomechanics. East Lansing, MI.



92. Sayce L, Kimball EE, Gartling G, Powell M, Sueyoshi S, Schneeberger S, Brandley J, Xu C, **Rousseau B** (2018) Effect of METHylprednisolone Treatment on Rabbit vocal fold physiology. Accepted for presentation at the International Conference on Voice Physiology and Biomechanics. East Lansing, MI.
93. Sueyoshi S, Sayce L, Kimball EE, Gartling G, Powell M, Xu C, **Rousseau B** (2018) Expression of inflammatory cytokines and junctional proteins in Rabbit vocal folds following methylprednisolone treatment. Accepted for presentation at the International Conference on Voice Physiology and Biomechanics. East Lansing, MI.
94. Gartling G, Sayce L, Kimball EE, Sueyoshi S, Brandley J, **Rousseau B** (2018) A preliminary comparison of the expression and localization of integral epithelial proteins in human and rabbit vocal folds. Accepted for presentation at the International Conference on Voice Physiology and Biomechanics. East Lansing, MI.
95. Kimball EE, Xu C, Sayce L, **Rousseau B** (2018) The Effect of Protein Coating on Epithelial Barrier integrity, Cell proliferation, and Cell physiology in primary culture of vocal fold epithelial cells. Accepted for presentation at the International Conference on Voice Physiology and Biomechanics. East Lansing, MI.
96. Gartling G, Sayce L, Kimball EE, Sueyoshi S, Brandley J, **Rousseau B** (2018) A Comparison of Critical Cellular and Subcellular Components in Rabbit and Human Vocal Folds. Submitted for Presentation at American Speech-Language Hearing Association Annual Meeting, Boston MA.
97. Xu C, Kimball EE, Sayce L, **Rousseau B** (2018). Characterization of acute exposure to glucocorticoid steroids in human and rabbit primary vocal fold epithelial cells. Presented as a poster at Fall Voice, Seattle, WA.
98. Gartling G, Sayce L, Kimball EE, Sueyoshi S, Brandley J, **Rousseau B** (2018). A Preliminary Comparison of the Expression and Localization of Integral Epithelial Proteins in Human and Rabbit Vocal Folds. Presented as a poster at Fall Voice, Seattle, WA.
99. Kimball EE, Sayce L, Gartling G, Powell ME, Brandley J, **Rousseau B** (2018). Effects of Vibratory Contact of Vocal Fold Structure and Physiology. Presented at Fall Voice, Seattle, WA.
100. Sayce L, Kimball EE, Sueyoshi S, Gartling G, Schneeberger Powell M, Brandley J, **Rousseau B** (2018). Molecular Characterization of Glucocorticoid Steroid Treatment on Vocal Fold Physiology: A Preliminary Study. Presented at Fall Voice, Seattle, WA.
101. Powell M, Sayce L, Kimball EE, Sueyoshi S, Gartling G, **Rousseau B** (2018). Vocal Fold Vibratory Outcomes Following High Dose of Glucocorticoids. Presented as a poster at International Conference on Voice Physiology and Biomechanics, East Lansing, MI.
102. Kimball EE, Sayce L, Powell ME, **Rousseau B** (2019). Assessing structural and physiologic laryngeal changes in response to systemic dehydration in a rabbit model. Presented at Fall Voice, Dallas, TX.
103. Sayce L, Gartling G, Schneeberger S, Kimball EE, Brandley J, **Rousseau B** (2019) Glucocorticoid steroid responses in the healthy rabbit vocal fold. Presented at Fall Voice, Dallas, TX.
104. Gartling G, Sayce L, Kimball E, Sueyoshi S, Brandley J, **Rousseau B** (2019) A comparison of the localization of integral membrane proteins in human and rabbit vocal folds. Presented at Fall Voice, Dallas, TX.

105. Wilson AW, Kimball EE, Sayce L, **Rousseau B** (2019) Feasibility of magnetic nanoparticle co-culture with vocal fold epithelial cells. Presented at Fall Voice, Dallas, TX.
106. Kimball EE, Sayce L, Gartling G, Powell ME, Brandley J, **Rousseau B** (2019) Effects of Vibratory Contact on Vocal Fold Structure and Physiology. Presented at Fall Voice, Dallas, TX.
107. Wilson AW, Kimball EE, Sayce L, **Rousseau B** (2019) The Magnetic Voice Project (MVP): Bringing Nanoscience to Voice Science. Presented at American Speech, Language, Hearing Association, Orlando, FL.
108. Sayce L, Kimball EE, Chen P, Wilson AW, Powell ME, **Rousseau B** (2019) Optimizing Anesthesia for Basic Voice Research in a Rabbit Model. Presented at American Speech, Language, Hearing Association, Orlando, FL.
109. Gartling G, Sayce L, Kimball EE, Sueyoshi S, Brandley J, **Rousseau B** (2019) A comparison of critical molecular components in rabbit and human vocal folds. Presented at American Speech, Language, Hearing Association, Orlando, FL.
110. Kimball EE, Sayce L, Powell ME, **Rousseau B** (2020) Laryngeal Changes in Acute Systemic Dehydration in a Rabbit Model. Poster Pod Presentation (Virtual) Presentation at Fall Voice, Redondo Beach, California.
111. Wilson A, Gartling G, Sayce L, **Rousseau B** (2020) Low Cost Custom Laser-Cut Silastic Implants for Type I Thyroplasty in Rabbit Model. Poster Presentation at Fall Voice, Redondo Beach, California.
112. Sayce L, Xu Carol, Kimball, EE, **Rousseau B** (2020) In Vitro Vocal Fold Epithelial Responses to Chronic Glucocorticoid Steroid Treatment. Submitted for Presentation at Fall Voice, Redondo Beach, California.
113. Gartling, G, Sayce L, Kimball EE, Wilson A, Rousseau B (2020) Investigating the Adverse Effects of Vocal Fold Atrophy After Acute Glucocorticoid Treatment in a Rabbit Model. Submitted for Presentation at Fall Voice, Redondo Beach, California.
114. Wilson A, Gartling G, Sayce L, **Rousseau B** (2020) Low-Cost Custom Laser-Cut Silastic Implants for Type I Thyroplasty in a Rabbit Model. Submitted for Presentation at American Speech, Language, Hearing Association, San Diego, CA.

## **OTHER PUBLICATIONS:**

### **Practice Policy Documents**

ASHA's Practice Policy Documents, along with other cardinal documents of the Association, are written for and by ASHA members and approved by ASHA governance to promulgate best practices and standards in the professions of audiology and speech-language pathology.

Denton D., Ingham JC, Jessen J., Kearns K., Minifie F., Moss S., Nelson P., **Rousseau B.**, Kent RD. (2007). American Speech-Language-Hearing Association (2007) Guidelines for the responsible conduct of research: ethics and the publication process [Guidelines]. Available from: HYPERLINK "http://www.asha.org/policy" [www.asha.org/policy](http://www.asha.org/policy)

American Speech-Language-Hearing Association (2016) .Scope of Practice in Speech Language Pathology [Scope of Practice]. Available from: HYPERLINK "http://www.asha.org/policy" [www.asha.org/policy](http://www.asha.org/policy)

## PROFESSIONAL ACTIVITIES

### TEACHING:

I have in my 15 years of service to the professions served on faculty search committees, the admissions committee, a committee responsible for developing a strategic plan for Ph.D. recruiting, and a committee responsible for addressing opportunities to ensure the continued success of the Ph.D. program. Our department ranks #3 among departments of speech language pathology and # 7 among department of audiology across the country. My various appointments in academic medical centers and schools of health and rehabilitation sciences have provided me with a diverse combination of curriculum preparation experiences, including training of medical students, residents, graduate students in the M.S. SLP program, Ph.D. students, and post-doctoral fellows. Additionally, I co-developed and served as Co-Director of the Voice Specialty Track, a specialty training track within the M.S. SLP graduate program in the Department of Hearing and Speech Sciences at Vanderbilt University. This specialty track provided students with advanced competencies in the assessment and management of voice disorders.

My teaching includes an exceptional blend of clinical and traditional didactic classroom teaching. I have taught the Acoustics and Perception of Speech and Speech Disorders course to the second year masters of speech-language pathology (M.S. SLP) graduate students and the Advanced Voice Instrumentation Seminar to the M.S. SLP graduate students enrolled in the Voice Specialty Track. I have also co-taught the Grants and Contracts course taken by Ph.D. students in the Department of Hearing and Speech Sciences and Vanderbilt's Peabody College of Education and Human Development and lecture in the Voice Disorders course taken by the first year graduate students in the M.S. SLP program. I lecture to the otolaryngology residents in our Departmental Basic Science Research Conference in Otolaryngology and to the graduate students in Hearing and Speech Sciences in our Speech Language Pathology Grand Rounds.

In my role as Director of the Laryngeal Biology Laboratory at Vanderbilt University School of Medicine, I directed a research program of approximately **11 research and staff**, served as PI or CO-I on **16 research awards**, secured **\$8.5 million dollars** in research funding, and led a **\$2.0 million dollar laboratory expansion** and renovation project. I have mentored in various capacities more than **50 research trainees** over the past **15 years**. My laboratory is active in the training of pre- and post-doctoral research fellows, residents, medical students, graduate students in the hearing and speech sciences and engineering, and undergraduate students with a strong interest in academic, research, and teaching careers. My federally funded research program focuses on the molecular pathophysiology of acute phonotrauma and outcomes studies related to the assessment and management of patients with benign vocal fold disease. Our program of research has experienced considerable growth, which has led to several multidisciplinary collaborative grant collaborations and large-scale space and infrastructure initiatives, including the formation of a novel interdisciplinary program of research, coined MODEL ENT: **Modulation Of Disease Environments Laboratory by Engineering Nano Therapeutics**, which brings together a core group of faculty from the School of Medicine, School of Engineering, and College of Arts and Sciences at Vanderbilt University to advance a vision for an interdisciplinary collaborative engineering and biomedical research program. In 2014, I was the recipient of the

Elaine-Sanders Bush Award for Mentoring Graduate and/or Medical Students in the Research Setting. Dr. Sanders-Bush was a leader in the development of research and graduate education at Vanderbilt. In 1997, she spearheaded the creation of a new Ph.D. program in Neuroscience. She served as director of the neuroscience program until 2008. In recognition of her impact in graduate education at Vanderbilt, the Elaine-Sanders Bush Award for Mentoring Graduate and/or Medical Students in the Research Setting was established in 2006.

Throughout the course of my professional career, my clinical practice has included serving on multi-disciplinary teams involved in the assessment and treatment of patients with voice disorders, including muscle tension dysphonia, benign vocal fold lesions, paradoxical vocal fold motion, and spasmodic dysphonia. The members of the multi-disciplinary team have included fellowship-trained laryngologists, laryngology fellows, residents, singing specialists, speech-language pathologists, and nurses.

### **Medical School Courses:**

#### **Vanderbilt University School of Medicine**

SLP 5583 Grand Rounds and Clinical Case Conference in Speech Language Pathology Lecturer 20-30 Graduate Students, Faculty, and Staff Meets weekly during fall and spring semesters One to two 1-hour lectures/year	2005-present
Basic Science Conference in Otolaryngology Lecturer 16-20 Residents/Fellows Meets weekly during fall and spring semesters One to two 1-hour lectures/year	2006-present
SLP 5336 Voice Disorders Invited Lecturer 16-20 Graduate Students Meets weekly during summer semester One 3-hour lecture/year	2010-2012
OTO-6150 Otolaryngology Research Director of Independent Study 1-2 Medical Students Open to 3 <sup>rd</sup> year Vanderbilt Students Each student arranges an independent study and completes a period of research work	2010-present
OTO-5950 Laryngology: Focusing on voice, airway, and swallowing	2010-present

Co-Director

1-2 Medical Students

Open to 4<sup>th</sup> year Medical Students  
from any Medical School

SLP 5369 Master's Thesis Research 2010-present  
Director, Developed standard curriculum  
1-2 Graduate Students  
Meets weekly during fall, spring, and summer semesters  
One 2-hour conference  
One 1-hour laboratory interaction per week

SLP 5378 Advanced Voice Instrumentation & Lab 2011-present  
Course Director, Developed course and curriculum  
2 Graduate Students  
Meets weekly during summer semester  
One 3-hour lecture per week

SLP 5301 Acoustics and Perception of Speech and Speech 2012-2013  
Disorders  
Course Director, Developed standard curriculum  
22 Graduate Students  
Meets weekly during fall semester  
One 3-hour lecture and One 1-hour  
laboratory interaction per week

### **Graduate School Courses:**

#### **Vanderbilt University**

HRSP 344 Grants and Contracts 2010-2012  
Instructor  
6-7 Graduate Students  
Meets weekly during summer semester  
One 3-hour lecture per week

### **Continuing Medical Education:**

1. Vanderbilt Videostroboscopy with Interpretation Workshop, Nashville, Tennessee, August 2005, Organizer and Invited Lecturer
2. Vanderbilt Videostroboscopy with Interpretation Workshop, Nashville, Tennessee, October 2006, Organizer and Invited Lecturer
3. Tennessee Association of Audiologist and Speech-Language Pathologists Convention. Nashville, Tennessee, October 2006, Invited Lecturer

4. Grand Rounds in Speech-Language Pathology, Vanderbilt University, Nashville, Tennessee  
September 2007, Invited Lecturer
5. Vanderbilt Videostroboscopy with Interpretation Workshop, Nashville, Tennessee, October  
2007, Organizer and Invited Lecturer, Nashville, TN, Organizer and Lecturer
6. Vanderbilt Videostroboscopy with Interpretation Workshop, Nashville, Tennessee, August  
2008, Organizer and Invited Lecturer
7. Vanderbilt Videostroboscopy with Interpretation Workshop, Nashville, Tennessee, September  
2009, Organizer and Invited Lecturer
8. Vanderbilt Videostroboscopy with Interpretation Workshop, Nashville, Tennessee, September  
2010, Organizer and Invited Lecturer
9. Vanderbilt Videostroboscopy with Interpretation Workshop, Nashville, Tennessee, September  
2011, Organizer and Invited Lecturer
10. Vanderbilt Videostroboscopy with Interpretation Workshop, Nashville, Tennessee,  
September 2012, Organizer and Invited Lecturer
11. Contemporary Perspectives and Health in the Commercial Voice, Nashville, Tennessee,  
March 2013, Invited Lecturer
12. Contemporary Perspectives and Health in the Commercial Voice, Nashville, Tennessee,  
March 2014, Invited Lecturer
13. Contemporary Management of Aerodigestive Diseases in Children, Nashville, Tennessee,  
November 2014, Invited Lecturer

**Clinical Teaching (4 hours per week total)**

Speech-Language Pathology Graduate Student Placement 1-3 Graduate Students. 0-1 hour/week.	2005-2013
Speech-Language Pathology Clinical Fellowship Program 0-1 Fellow in Speech-Language Pathology. 0-1 hour/week.	2005-2013
Laryngology Fellowship Program 1-2 Fellows. 0-1 hour/week.	2005-2013
Head & Neck/Laryngology Service. 1 Resident. 0-1 hour/week.	2005-2013

**Research Mentorship:**

**Mentoring Committees**

**Junior Faculty**

Aron Parekh, Ph.D. 9/2010-present  
Assistant Professor (tenure track)  
Vanderbilt University  
Mentor, Faculty Mentoring Committee

Jennifer Muckala, M.A., CCC-SLP 11/2012-present  
Assistant in Otolaryngology  
Vanderbilt University  
Mentor, Faculty Mentoring Committee

Ramya Balachandran, Ph.D. 9/2013-12/2015  
Research Assistant Professor  
Vanderbilt University  
Mentor, Faculty Mentoring Committee

Christopher Wooten, M.D. 9/2013-present  
Assistant Professor  
Vanderbilt University  
Mentor, Faculty Mentoring Committee

David O. Francis, M.D. 9/2013-present  
Assistant Professor (tenure track)  
Vanderbilt University  
Mentor, Faculty Mentoring Committee

Reyna Gordon, Ph.D. 8/2014-present  
Assistant Professor (tenure track)  
Vanderbilt University  
Mentor, Faculty Mentoring Committee

**Associate Professors**

Steven Goudy, M.D. 9/2013-3/2014  
Associate Professor, Vanderbilt University  
Mentor, Faculty Mentoring Committee

Research Supervision:  
Post-doctoral research fellows

Pingjiang Ge, M.D. 12/2005-4/2007

Post-doctoral research fellow  
Primary Mentor  
Director of Post-doctoral Fellowship Program  
Current position: Professor  
Department of Otolaryngology  
GuangDong Academy of Medical Sciences.

Tsunehisa Ohno, M.D., Ph.D. 6/2007-1/2009  
Post-doctoral research fellow  
Primary Mentor  
Director of Post-doctoral Fellowship Program  
Current position: Clinical Fellow and Otolaryngology  
Head and Neck Surgeon  
Department of Otolaryngology  
Kokura Memorial Hospital, Kokura, Japan.

Atsushi Suehiro, M.D., Ph.D. 1/2009-6/2011  
Post-doctoral research fellow  
Primary Mentor  
Director of Post-doctoral Fellowship Program  
Current position: Department (Head) Chief and Otolaryngology  
Head and Neck Surgeon  
Department of Otolaryngology  
Kusatsu General Hospital, Shiga, Japan.

Tsuyoshi Kojima, M.D., Ph.D. 8/2011-1/2014  
Post-doctoral research fellow  
Primary Mentor  
Director of Post-doctoral Fellowship Program  
Current position: Clinical Fellow and Otolaryngology  
Head and Neck Surgeon,  
Department of Otolaryngology  
Tenri Hospital, Nara, Japan.

James Daniero, M.D. 6/2013-7/2014  
Laryngology Research Fellow  
Mentor  
Research Laboratory Training Experience  
Current position: Assistant Professor  
University of Virginia, Charlottesville, VA.

Masanobu Mizuta, M.D. 1/2014-12/2015  
Post-doctoral research fellow  
Primary Mentor  
Director of Post-doctoral Fellowship Program  
Current position: Post-doctoral research fellow



Vanderbilt University Medical Center.

Reyna Gordon, Ph.D. 8/2014-8/2015  
Post-doctoral research fellow  
Primary Mentor  
Director of Fellowship Program  
Current position: Assistant Professor  
Vanderbilt University Medical Center.

Maria Powell, Ph.D., CCC-SLP 12/2015-present  
Post-doctoral research fellow  
Primary Mentor  
Director of Post-doctoral Fellowship Program  
Current position: Research fellow  
Vanderbilt University Medical Center.

Takashi Kurita, M.D. 12/2015-06/2017  
Post-doctoral research fellow  
Primary Mentor  
Director of Post-doctoral Fellowship Program  
Current position: Otolaryngologist  
Kurume University Medical Center.

Shintaro Sueyoshi, M.D. 06/2017-present  
Post-doctoral research fellow  
Primary Mentor  
Director of Post-doctoral Fellowship Program  
Current position: Research fellow  
Vanderbilt University Medical Center.

### **Resident Research Fellows**

Lesley F. Childs, M.D. 7/2007-1/2008  
Resident Research Fellow (Otolaryngology)  
Primary Mentor, Director of Resident Research Rotation  
Current position: Assistant Professor,  
Department of Otolaryngology, University of Texas  
Southwestern Medical Center, Dallas, TX.

Erik R. Swanson, M.D. 7/2008-1/2009  
Resident Research Fellow (Otolaryngology)  
Primary Mentor, Director of Resident Research Rotation  
Current position: Otolaryngology-Head and Neck Surgeon  
Charleston Ear, Nose, and Throat Associates, Charleston, SC.

Harry Wright, M.D. 7/2010-1/2011

Resident Research Fellow (Otolaryngology)  
Primary Mentor, Director of Resident Research Rotation  
Current position: Fellow (Facial Plastic Surgery)  
University of South Florida, Tampa, FL.

Joseph E. Hall, M.D. 1/2011-7/2011  
Resident Research Fellow (Otolaryngology)  
Primary Mentor, Director of Resident Research Rotation  
Current position: Otolaryngology-Head and Neck Surgeon  
Ohio ENT, Dublin, OH.

Mark Van Deusen, M.D. 7/2011-1/2012  
Resident Research Fellow (Otolaryngology)  
Primary Mentor, Director of Resident Research Rotation  
Current position: Otolaryngology-Head and Neck Surgeon  
Northwest ENT and Allergy Center, Marietta, GA.

Joshua Mitchell, M.D. 1/2012-7/2012  
Resident Research Fellow (Otolaryngology)  
Primary Mentor, Director of Resident Research Rotation  
Current position: Fellow (Pediatric Otolaryngology)  
Children's Hospitals and Clinics of Minnesota  
Minneapolis, MN.

Scott M. Greene, M.D. 1/2013-7/2013  
Resident Research Fellow (Otolaryngology)  
Primary Mentor, Director of Resident Research Rotation  
Current position: Resident  
Vanderbilt University Medical Center

Latif M. Dharamsi, M.D. 1/2013-7/2013  
Resident Research Fellow (Otolaryngology)  
Primary Mentor, Director of Resident Research Rotation  
Current position: Resident  
Vanderbilt University Medical Center

Rachel Fee, M.D. 7/2014  
Resident Research Fellow (General Surgery)  
Primary Mentor, Director of Laboratory Rotation  
Current position: Resident  
Vanderbilt University Medical Center

**Medical Students (M.D.)**

Davood Abdollahian, M.D. 1/2008-6/2009  
Medical Student

Vanderbilt University School of Medicine  
Emphasis Program  
Primary Mentor, Director of Laboratory Rotation  
Current Position: Diagnostic Radiology Resident  
Johns Hopkins School of Medicine  
Russell H. Morgan Department of Radiology  
& Radiological Sciences.

Mi Jin Yoo, M.D. 1/2008-6/2009  
Medical Student  
Vanderbilt University School of Medicine  
Emphasis Program  
Primary Mentor, Director of Laboratory Rotation  
Current Position: Otolaryngology Resident  
Albert Einstein College of Medicine  
Montefiore Medical Center  
Otorhinolaryngology-Head and Neck Surgery.

Alexandra Schmidt, M.D. 1/2009-6/2010  
Medical Student  
Vanderbilt University School of Medicine  
Emphasis Program  
Primary Mentor, Director of Laboratory Rotation  
Current Position: Plastic and Reconstructive Surgery Resident  
Washington University School of Medicine in St. Louis  
Department of Plastic and Reconstructive Surgery.

Nicholas Echemendia, M.D. 6/2009-8/2009  
Medical Student  
Case Western Reserve University School of Medicine  
Primary Mentor, Director of Laboratory Rotation  
Current Position: General Surgery Resident  
University of Tennessee Graduate School of Medicine  
Department of Surgery.

Laurence James 1/2010-6/2010  
Medical Student  
Vanderbilt University School of Medicine  
Emphasis Program  
Primary Mentor, Director of Laboratory Rotation  
Current Position: Medical Student  
Vanderbilt University School of Medicine.

Carla Valenzuela 9/2012-7/2014  
Medical Student  
Vanderbilt University School of Medicine

Primary Mentor, Director of One Year Laboratory Rotation  
Mentor, NIH Diversity Research Supplement  
Current Position: Resident  
Washington University St. Louis School of Medicine.

Rivka Chinyere Ihejirika 6/2014-8/2014  
Medical Student  
Vanderbilt University School of Medicine  
Mentor, Summer Research Month  
Current Position: Medical Student  
Vanderbilt University School of Medicine.

**Graduate Students (M.S.)**

Danielle Elder, M.S., CCC-SLP 9/2009-5/2010  
Graduate Student (M.S.)  
Department of Hearing and Speech Sciences  
Vanderbilt University School of Medicine  
Primary Mentor, Research Project  
Current Position: Speech-Language Pathologist.

Christine N. Williams, M.S., CCC-SLP 5/2010-5/2011  
Graduate Student (M.S.)  
Department of Hearing and Speech Sciences  
Vanderbilt University School of Medicine  
Director of Master's Thesis  
Current Position: Speech-Language Pathologist.

Jeffrey P. Johnson, M.S., CFY-SLP 10/2010-5/2012  
Graduate Student (M.S.)  
Department of Hearing and Speech Sciences  
Vanderbilt University School of Medicine  
Director of Master's Thesis  
Current Position: Ph.D. Student  
Boston University.

Jessica G. Friedman, M.S., CFY-SLP 11/2010-5/2012  
Graduate Student (M.S.)  
Department of Hearing and Speech Sciences  
Vanderbilt University School of Medicine  
Director of Master's Thesis  
Current Position: Speech-Language Pathologist.

Grace M. Scott 11/2011-5/2013

Graduate Student (M.S.)  
Department of Hearing and Speech Sciences  
Vanderbilt University School of Medicine  
Research Assistant  
Current Position: Speech-Language Pathologist.

Lisa A. D'Oyley 11/2011-5/2013  
Graduate Student (M.S.)  
Department of Hearing and Speech Sciences  
Vanderbilt University School of Medicine  
Primary Mentor, Voice Specialty Track Training Program  
Current Position: Speech-Language Pathologist.

Alyssa M. Lord 8/2012-5/2014  
Graduate Student (M.S.)  
Department of Hearing and Speech Sciences  
Vanderbilt University School of Medicine  
Research Assistant  
Current Position: Speech-Language Pathology  
Clinical Fellow.

Sarah E. Almaguer 8/2012-5/2014  
Graduate Student (M.S.)  
Department of Hearing and Speech Sciences  
Vanderbilt University School of Medicine  
Research Assistant  
Current Position: Speech-Language Pathology  
Clinical Fellow.

Jodie A. Fornadley 8/2012-5/2014  
Graduate Student (M.S.)  
Department of Hearing and Speech Sciences  
Vanderbilt University School of Medicine  
Research Assistant  
Current Position: Speech-Language Pathology  
Clinical Fellow.

Aaron N. Gregory 8/2012-5/2014  
Graduate Student (M.S.)  
Department of Hearing and Speech Sciences  
Vanderbilt University School of Medicine  
Research Assistant  
Current Position: Speech-Language Pathology  
Clinical Fellow.

Sara C. Kahan 8/2012-5/2014

Graduate Student (M.S.)  
Department of Hearing and Speech Sciences  
Vanderbilt University School of Medicine  
Research Assistant  
Current Position: Speech-Language Pathology  
Clinical Fellow.

Kiran A. Kotagal  
Graduate Student (M.S.)  
Department of Hearing and Speech Sciences  
Vanderbilt University School of Medicine  
Research Assistant  
Current Position: Speech-Language Pathology  
Clinical Fellow.

8/2012-5/2014

Renee E. King  
Graduate Student (M.S.)  
Department of Hearing and Speech Sciences  
Vanderbilt University School of Medicine  
Research Assistant  
Director of Master's Thesis  
Current Position: Doctoral Student  
University of Wisconsin-Madison.

08/2013-08/2014

Melissa A. Tucker  
Graduate Student (M.S.)  
Department of Hearing and Speech Sciences  
Vanderbilt University School of Medicine  
Research Assistant  
Current Position: Speech-Language Pathology  
Clinical Fellow.

08/2013-08/2014

Kiara Savage  
Graduate Student (M.S.)  
Department of Hearing and Speech Sciences  
Vanderbilt University School of Medicine  
Member of Committee, M.S., SLP Thesis Option  
Current Position: Graduate Student  
Vanderbilt University School of Medicine.

08/2014-08/2015

Nathaniel Sundholm  
Graduate Student (M.S.)  
Department of Hearing and Speech Sciences  
Vanderbilt University School of Medicine  
Current Position: Graduate Student

08/2015-06/2017

Vanderbilt University School of Medicine.

Jennifer Brandley 08/2017-present  
Graduate Student (M.S.)  
Department of Hearing and Speech Sciences  
Vanderbilt University School of Medicine  
Current Position: Research Assistant  
Vanderbilt University School of Medicine.

**Graduate Students, Pre-doctoral fellows (Ph.D.)**

Carolyn K. Novaleski 08/2012-5/2016  
Pre-doctoral (Ph.D.) Fellow  
Department of Hearing and Speech Sciences  
Vanderbilt University School of Medicine  
Primary Mentor, Director of Ph.D. Program  
Current Position: Post-doctoral fellow  
Monell Chemical Senses Center.

Emily Kimball 08/2012-present  
Pre-doctoral (Ph.D.) Fellow  
Department of Hearing and Speech Sciences  
Vanderbilt University School of Medicine  
Primary Mentor, Director of Ph.D. Program  
Current Position: Pre-doctoral fellow  
Vanderbilt University School of Medicine.

Gary Gartling 08/2017-present  
Pre-doctoral (Ph.D.) Fellow  
Department of Hearing and Speech Sciences  
Vanderbilt University School of Medicine  
Primary Mentor, Director of Ph.D. Program  
Current Position: Pre-doctoral fellow  
Vanderbilt University School of Medicine.

Elizabeth F. Levendoski 03/2011-5/2013  
Pre-doctoral (Ph.D.) Fellow  
Department of Speech, Language & Hearing Sciences  
Purdue University  
Member of Committee, Ph.D. Dissertation Project  
Current Position: Assistant Professor  
Stanford University School of Medicine.

Robin M. Jones 5/2011-5/2013  
Pre-doctoral (Ph.D.) Fellow  
Department of Hearing and Speech Sciences

Vanderbilt University School of Medicine  
Member of Committee, 2<sup>nd</sup> year Ph.D. Project  
Member of Committee, Ph.D. Dissertation Project  
Current Position: Assistant Professor  
Vanderbilt University School of Medicine.

Siyuan Chang 10/2011-05/2016  
Pre-doctoral (Ph.D.) Fellow  
Department of Mechanical Engineering  
Vanderbilt University  
Member of Committee, Ph.D. Dissertation Project  
Current Position: Post-doctoral fellow  
Vanderbilt University School of Engineering.

Tiffany Woynaroski 04/2014-04/2015  
Pre-doctoral (Ph.D.) Fellow  
Department of Hearing and Speech Sciences  
Vanderbilt University School of Medicine  
Member of Committee, Ph.D. Dissertation Project  
Current Position: Pre-doctoral fellow  
Vanderbilt University School of Medicine.

### **Undergraduate Students**

Andrew Tritter 1/2009-5/2010  
Research Assistant, Vanderbilt University  
Primary Mentor, Research Project  
Current Position: Medical Student  
Baylor University.

### **High School Students**

Jane Camarata 1/2014  
Student Intern, Vanderbilt University  
Primary Mentor  
St. Cecilia Academy, Nashville, TN.

Michael McGaw 6/2015-8/2015  
Student Intern, Vanderbilt University  
Primary Mentor  
Research Experience for H.S. students  
Vanderbilt Center for Science and Outreach



**RESEARCH:**

***Current Grant Support:***

<b><i>Grant Number</i></b>	<b><i>Grant Title</i></b>	<b><i>Role, Effort</i></b>	<b><i>Years Inclusive</i></b>	<b><i>Source, Amount</i></b>
R01DC015405	Pre-Clinical Testing of the Safety and Efficacy of Treatments for Voice Disorders	Principal Investigator, 40% effort	07/01/2016-06/30/2021	NIH, \$3,318,645
R01DC016236	Development of a Patient Specific Planning Tool for Type I Laryngoplasty	Principal Investigator, 30% effort	12/01/2017-06/30/2022	NIH, \$2,903,271
R01DC017397	Multiple Mechanisms Underlying GR-Mediated Therapies for Fibroplasia of the Vocal Folds	Co-Investigator (Subcontract PI), 10% effort	08/14/2019-07/31/2023	NIH, \$616,182
R01DC016033	Functional Electrical Stimulation of the Bilaterally Paralyzed Larynx	Consultant, 0% effort	12/01/2017-11/30/2022	NIH, \$3,763,990
T32EB021937	Training Program for Innovative Engineering Research in Surgery and Intervention	Training Grant Faculty/Preceptor, 0% effort	07/01/2016-06/30/2021	NIH, \$189,470

***Pending Grant Support:***

<b><i>Grant Number</i></b>	<b><i>Grant Title</i></b>	<b><i>Role, Effort</i></b>	<b><i>Years Inclusive</i></b>	<b><i>Source, Amount</i></b>
NIH NRSA F31	Magnetic Nanoparticle-Induced Activation of Mechanosensitive Proteins in Vocal Fold Epithelium	Applicant Sponsor, 0% effort	07/01/2021 – 06/30/2024	NIH, \$136,560

***Prior Grant Support:***

<b><i>Grant Number</i></b>	<b><i>Grant Title</i></b>	<b><i>Role, Effort</i></b>	<b><i>Years Inclusive</i></b>	<b><i>Source, Amount</i></b>
R01DC011759	Challenges to Vocal Fold Epithelia: Functional and Structural Consequences	Co-Investigator (Subcontract PI), 10% effort	04/01/2012 – 03/31/2017	NIH, \$187,572
R01DC011338	Molecular Pathophysiology of Acute Phonotrauma	Principal Investigator, 40% effort	12/01/2010 – 11/30/2015	NIH, \$1,869,189
R01DC011338	Molecular Pathophysiology of Acute Phonotrauma: Research Supplement to Promote Diversity in Health-Related Research	PI, Applicant Sponsor, 0% effort	08/01/2013 – 11/30/2015	NIH, \$62,306
R01DC011338-01A1S1	Molecular Pathophysiology of Acute Phonotrauma:	Principal Investigator, 40% effort	06/01/2012 – 11/30/2015	NIH, \$40,000

	Collaborative Applied Research Supplement NIDCD			
F31 DC014621	Apoptosis Signaling in Vocal Fold Epithelium in Response to Acute Phonotrauma	Applicant Sponsor/Mentor, 0% effort	06/01/2015- 05/30/2017	NIH, \$73,310
Industry Sponsored	Safety and efficacy of small intestine submucosa in the treatment of vocal fold scar	Principal Investigator, 2.5% effort	02/01/2015- 07/31/2016	Cook Medical, \$85,000
Discovery Grant	A High-Fidelity Computational Tool for the Laryngeal Dynamics during Phonation	Co-Investigator, 7.7% effort	06/30/2011- 05/31/2015	Vanderbilt University, \$100,000
R33DC00863205S1	Phased Infrastructure Grant for Patient Oriented Research: Patient and practitioner perception of usefulness, barriers, challenges, and benefits of voice therapy: Collaborative Applied Research	Consultant, 0% effort	06/01/2012- 05/30/2015	NIH, \$39,723

	Supplement NIDCD			
R01DC 008429	Electrical Stimulation of the Bilaterally Paralyzed Larynx Paced with Respiration	Co-Investigator, 5% effort	08/01/2006 – 07/31/2011	NIH, \$2,345,271
R03 DC008400	Effect of Vocalization on Tissue Protein Levels in the Acute Vocal Fold Wound	Principal Investigator, 30% effort	04/01/2007 – 03/31/2010	NIH, \$230,000
R21 DC009873	Growth Factor Treatment for Aged Vocal Folds	Principal Investigator, 20% effort	12/01/2008 – 11/30/2010	NIH, \$415,000
AAO-HNSF Resident Research Grant	Biochemical basis for early vs. delayed vocal fold mobilization after microflap	Co-Investigator; Major Preceptor, 0% effort	07/01/2011 - 06/30/2012	AAO-HNSF \$10,000.00
AAO-HNSF Resident Research Grant	Post-cricoid connexins in patients with erosive and non-erosive esophagitis	Co-Investigator; Major Preceptor, 0% effort	07/01/2011 - 06/30/2012	AAO-HNSF \$10,000.00
AAO-HNSF Resident Research Grant	Modulation of Inflammatory Signaling in Acute Phonotrauma	Co-Investigator; Major Preceptor, 5% effort	07/01/2010 - 06/30/2011	AAO-HNSF \$10,000.00
VBWC Collaborative Grant	Randomized controlled trial of text-to-speech communication	Co-Principal Investigator, 5% effort	03/01/2011 – 02/28/2012	Vanderbilt University, \$49,690

versus standard  
of care in  
patients on voice  
rest

F31DC006314	Phytochemical Treatments for Vocal Fold Scar	Principal Investigator, 50% effort	05/01/2003- 04/30/2005	NIH, \$57,950
R01DC04428-01S1	Phonosurgical Optimization Criteria for Sulcus Vocalis: Diversity Supplement	Principal Investigator, 50% effort	05/01/2001- 04/30/2003	NIH, \$55,000

***Prior Grant Support: Training Grants/Invited Grant Consulting***

<b><i>Grant Number</i></b>	<b><i>Grant Title</i></b>	<b><i>Role, Effort</i></b>	<b><i>Years Inclusive</i></b>	<b><i>Source, Amount</i></b>
R01DC011338	Molecular Pathophysiology of Acute Phonotrauma: Research Supplement to Promote Diversity in Health-Related Research	PI Sponsor, 0% effort	08/01/2013 – 11/30/2015	NIH, \$62,306
F32DC015726	Vocal Fold Vibratory Function during Development of and Recovery from Phonotrauma	PI: Powell Role: Sponsor, 0% effort	08/01/2016- 07/31/2018	NIH, \$176,142
T32EB021937	Training Program for Innovative Engineering Research in Surgery and Intervention	PI: Miga Role: Preceptor, 0% effort	07/01/2016- 06/30/2021	NIH, \$189,470

F31 DC014621	Apoptosis Signaling in Vocal Fold Epithelium in Response to Acute Phonotrauma	PI: Novaleski Role: Sponsor, 0% effort	06/01/2015- 05/30/2017	NIH, \$73,310
F31 DC012729	Characterization of the immune response in vocal fold injury and tissue Regeneration	PI: King Role: Sponsor, 0% effort	12/01/2012- 11/30/2014	NIH, \$36,297

#### **SEMINARS AND INVITED LECTURESHIPS:**

1. 9<sup>th</sup> International Workshop on Laser Voice Surgery. “Scar Wars”. Paris, FRANCE, April 2004.
2. Shanghai Voice Conference. “The effects of phonation on vocal fold wound healing”. Shanghai, CHINA, November 2007.
3. The International Conference in GuangZhou. “Evaluation and Treatment of Voice Disorders”. GuangZhou, CHINA, September 2010.
4. The 8<sup>th</sup> International Conference on Voice Physiology and Biomechanics. “Effects of Increasing Phonation Time and Magnitude Dose on Vocal Fold Epithelial Morphology”. Erlangen, GERMANY, July 2012.
5. 21<sup>st</sup> International Workshop on Laser Voice Surgery. “Growth Factor Treatments for Vocal Fold Scar and Aging”. Paris, FRANCE, May 2019.
6. Shanghai International Voice Forum. “Behavioral Therapy and Speech Pathology of Voice Disease”. Shanghai, CHINA, May 2019.
7. Shanghai International Voice Forum. “Voice Therapy Panel”. Shanghai, CHINA, May 2019.
8. Nanjing University. “Effect of Voice Use on Tissues and Cells” Nanjing, CHINA, May 2019.

#### **Visiting Professorships, Invited Lectureships, Seminars and Workshops (National or International)**

1. Phonosurgery Symposium “Excised Larynx Methodology”. Madison, Wisconsin, USA, July 2004.

2. Annual Meeting of the Tennessee Association of Audiology and Speech Language Pathology “Preparing for the PRAXIS Examination”. Chattanooga, Tennessee, USA, October 2004.
3. Annual Meeting of the Tennessee Association of Audiology and Speech Language Pathology. “Assessment and Treatment of Vocal Fold Scar”. Chattanooga, Tennessee, USA, October 2004.
4. Phonosurgery Symposium. “Understanding the Soft Tissue Matrix and Wound Healing: In-Vivo Vibratory Effects”. Madison, Wisconsin, USA, July 2006.
5. Duke University Medical Center, Grand Rounds in Otolaryngology, “Research Topics in Laryngology”. Durham, North Carolina, USA, October 2008.
6. University of California San Francisco, UCSF Voice Conference, “Molecular Pathophysiology of Acute Phonotrauma”. San Francisco, California, USA, October 2011.
7. Northwestern University, CSD Speaker Series, “Voice Science: Innovations and Opportunities in Research, Education, and Global Outreach”. Chicago, Illinois USA, January 2013.
8. Mount Sinai School of Medicine, Grand Rounds in Otolaryngology, “Contemporary Laryngology: Capitalizing on Innovations and Unique Opportunities in Research, Education, and Global Outreach”. New York, New York, USA, June 2013.
9. 13<sup>th</sup> Biennial Phonosurgery Symposium, “Voice Rest: Science and Practice”. Madison, Wisconsin, USA, July 2014.
10. University of Florida, College of Public Health and Health Professions, “Pursuit of National Preeminence in Patient Care, Research, Education, and Outreach: The Vanderbilt Experience”. Gainesville, Florida, USA, January 2015.
11. University of Central Florida, College of Health and Public Affairs, Department of Communication Sciences and Disorders, “Leading Teams and Building Strategic Partnerships in an Academic Health Care System: A 10-Year Experience at Vanderbilt School of Medicine”. Orlando, Florida, USA, October 2015.

**Invited Panelist/Moderator (National or International)**

Moderator of Annual Kay Pentax Lecture in Upper Airway Science (Susan L. Thibeault, Ph.D.). American Speech Language Hearing Association Annual Meeting, Philadelphia, Pennsylvania, USA, November 2010.

Moderator of Panel “Short term effects and management strategies for acute phonotrauma”. University of California-San Francisco Voice Conference. San Francisco, California, USA, November 2011.

Moderator of Panel “Scientific Session III: Mucosa”. American Laryngological Association. Las Vegas, Nevada, USA, May 2014.

Moderator of Panel, Fall Voice Conference. San Antonio, Texas, USA, October 2014.

Invited Panelist “Perioperative Voice Care” American Speech Language Hearing Association Live Online Chat in Celebration of World Voice Day, April 12<sup>th</sup>, 2016: HYPERLINK  
"http://www.asha.org/Events/live/04-12-2016-Voice-Care.htm"  
<http://www.asha.org/Events/live/04-12-2016-Voice-Care.htm>

**Invited Lectures (Keynote Speaker)**

1. NBASLH Awards Dinner Keynote Speaker. “Celebrate People: People are your most important asset”. Nashville, Tennessee, USA, April 16-18, 2015.

**Invited Lectures (School of Medicine)**

Vanderbilt Initiative in Surgery and Engineering (VISE), Spring Seminar Series. Vanderbilt University, Nashville, Tennessee, USA, March 2013.

**OTHER RESEARCH RELATED ACTIVITIES:**

**National Institutes of Health (Review Panels/Study Sections):**

Ad-hoc member, 2009-2011  
National Institutes of Health  
R01 Special Emphasis Panel/Scientific Review Group  
ZDC1 SRB-L (42).

Ad-hoc member 2011-2013  
NIDCD R03– Voice, Speech and Language  
National Institutes of Health  
Special Emphasis Panel/Scientific  
Review Group ZDC1 SRB-Y (56).

Ad-hoc member 2012-2013  
NIDCD R03– Voice, Speech and Language  
National Institutes of Health  
Special Emphasis Panel/Scientific  
Review Group ZDC1 SRB-L (50).

Ad-hoc member 2012-2014  
National Institutes of Health  
Special Emphasis Panel/Scientific Review Group  
Communication Disorders Review Committee (CDRC).

Ad-hoc member 2012-2014  
National Institutes of Health, Motor Function



Speech and Rehabilitation Study Section (MFSR)  
Center for Scientific Review (CSR).

Charter member 2014-2020  
National Institutes of Health  
Motor Function  
Speech and Rehabilitation Study Section (MFSR)  
Center for Scientific Review (CSR).

Steering Committee 2019-present  
P50 Precision Medicine in Tinnitus.

**American Speech-Language Hearing Foundation (Review Panels/Study Sections)**

Reviewer, Research Grant for New Investigators 2007  
American Speech-Language Hearing Foundation.

Reviewer, New Century Scholars Program 2007  
New Century Scholars Research Grant Competition  
American Speech-Language Hearing Foundation.

Reviewer, New Century Scholars Program 2011  
Scholarship Review Committee  
American Speech-Language Hearing Foundation.

Reviewer, New Century Scholars Program 2014  
New Century Scholars Research Grant Competition  
American Speech-Language Hearing Foundation.

**Editorial Appointments (Editor or Associate Editor)**

Associate Editor 2010-2012  
Perspectives on Voice and Voice Disorders

Guest Associate Editor 2013  
Journal of Speech-Language and Hearing Research

Editor 2013-2015  
Perspectives on Voice and Voice Disorders

**Editorial Service (Editorial Review Board)**

Editorial Review Board 2012-present  
Journal of Auris, Nasus, Larynx

**Ad-hoc Reviewer for Journals**

Ad-hoc reviewer, Movement Disorders	2006-present
Ad-hoc reviewer, Tissue Engineering	2006-present
Ad-hoc reviewer Annals of Otolaryngology, Rhinology, and Laryngology	2008-present
Ad-hoc reviewer Otolaryngology-Head-Neck Surgery	2008-present
Ad-hoc reviewer, Journal of Speech-Language and Hearing Research	2008-present
Ad-hoc reviewer Laryngoscope	2009-present
Ad-hoc reviewer Wound Repair and Regeneration	2009-present
Ad-hoc reviewer Cells Tissues Organs	2010-present
Ad-hoc reviewer Acta Biomaterialia	2011-present
Ad-hoc reviewer Journal of The Royal Society Interface	2011-present

**LIST of CURRENT RESEARCH INTERESTS:**

Optimal function of the vocal fold lamina propria is essential to human voice production. The lamina propria is an area of connective tissue that is uniquely different from tissues found elsewhere in the body. Histological and physiological comparisons can be made with other tissues such as skin and joints that undergo frequent trauma, repeated cycles of inflammation, and decreased function secondary to injury. However, no other tissue in the body undergoes mechanical forces similar to the vibration that the vocal folds experience during phonation. Our federally funded research program investigates the cellular and molecular events underlying phonotrauma and the identification of unique mechanisms involved in protection of the vocal fold from injury. We have developed a novel in-vivo phonation model to better understand the role of acute phonotrauma on repair of vocal fold tissues. Our laboratory was the first to report changes in the expression of key genes involved in extracellular matrix metabolism following acute phonotrauma. In addition to these more fundamental investigations, we are also deeply committed to the understanding of outcomes and the availability of health related services in the treatment of phonotrauma. Our laboratory is conducting translational investigations focusing on

the role of treatment adherence in recovery from phonosurgery, outcomes studies related to the assessment and management of patients with benign vocal fold disease, and multi-center randomized controlled clinical trials in voice disorders. Our research efforts are funded by the National Institutes of Health, National Institute on Deafness and Other Communication Disorders.

Our research program has experienced considerable growth over the past 15 years. The growth and success of our research, education, and outreach efforts have been made possible through strong institutional support and cross-institutional collaborations. These joint initiatives have led to multidisciplinary intramural and extramural collaborative research grants and large-scale space and infrastructure initiatives, including an interdisciplinary collaborative engineering and biomedical research program coined **MODEL ENT: Modulation of Disease Environments Laboratory by Engineering Nano Therapeutics**. The **MODEL ENT** concept was developed with the following four ideas in mind: 1) make a case for co-locating faculty from engineering and medicine, 2) bring together faculty with a commitment to collaborative research, 3) leverage existing institutional shared resources, and 4) advance innovative ideas with strong potential for extramural funding and sustainability. The synergies created by bringing together a core group of faculty from the School of Medicine, School of Engineering, and College of Arts and Sciences at Vanderbilt University uniquely positioned our research programs to solve problems that are particularly tractable to interdisciplinary approaches.

Our efforts will address an important goal in understanding proper cell and extracellular matrix interactions, a process that is critical to maintaining functional homeostasis in tissues and organs. **MODEL ENT** investigators utilize a range of *in vitro*, *in vivo*, and computational models to provide a fundamental understanding of the biochemical and biophysical factors that influence tissue injury and repair. These efforts will contribute to an improved understanding of extracellular matrix signaling and the mechanobiological responses of organs and tissues to environmental and chemical cues. These studies are essential to the development and testing of surgical and pharmacologic treatments for human disease. Support for these initiatives has the potential to lead to significant progress in how patients are managed in the next 10 years.

In our current R01 research program we use a unique combination of *in vitro*, *in vivo*, and computational models to provide a fundamental understanding of the biological characteristics of vocal fold tissue and the physiological factors that influence tissue response to treatment. Over the past 15 years, our research program has been deeply committed to the understanding of tissue injury and repair with an eye towards future drug development and the investigation of the safety and efficacy of treatments for voice complaints. Our research efforts have provided critical new insights into the cellular and molecular pathophysiology of phonotrauma. Despite widespread clinical use, the indications for use, safety, and demonstration of efficacy of synthetic glucocorticoids in the treatment of dysphonia remains poorly understood. In the current R01 project, the mechanisms underlying therapeutic efficacy of these treatments is explored remains unknown.

Our collaborative work with Haoxiang Luo, Ph.D. and colleagues in Mechanical Engineering on the dynamic interactions between biological structures received international attention in 2013, following a publication that appeared in the *Journal of Computational Physics*, entitled “Fluid-Structure Interaction Involving Large Deformations: 3D Simulations and Applications to

Biological Systems”. This research supported by the National Science Foundation and National Institutes of Health instantly became one the “Most Downloaded” Journal of Computational Physics papers since its publication in February 2014 and was awarded the 10<sup>th</sup> International Conference on Advances in Quantitative Laryngology Voice and Speech Research Best Paper Award. The work profiled in the VUMC Reporter “Math Models to Aid Voice Disorders” presents a versatile numerical approach for the simulation of 3D fluid-structure interactions, representing a significant milestone in the modeling of a range of biological structures such as insect wings, fish fins, heart valves and human vocal folds. This work represents a significant contribution to the fluid dynamics community since biological systems often involve large deformations and their three-dimensional modeling has been a standing challenge. Our overarching goal is to use high-fidelity computational models that incorporate patient-specific features of the laryngeal anatomy to quantify the magnitude and spatial distribution of vocal fold biomechanical stresses and as a pre- and intra-operative surgical planning tool to improve surgical outcomes in patients with vocal fold paralysis.

## **SERVICE:**

### **Narrative Report of Service Contributions:**

My contributions to the professions include service on committees charged with the development of official practice policy documents in speech language pathology and audiology, service to federal agencies, and academic leadership.

Over the past 15 years, I have served on editorial review boards as editor, associate editor, or reviewer for various journals. I have also regularly provided service to the professions and to federal agencies. I served a six-year term as a charter member of the Motor Function Speech Rehabilitation (MFSR) study section of the Center for Scientific Review at the National Institutes of Health (NIH). Charter members of NIH study panel are selected on the quality of their research accomplishments, publications in scientific journals and other scientific activities, achievements and honors.

I also served as Chair of the Committee on Honors (COH) of the American Speech Language Hearing Association. The Committee on Honors is appointed by the Committee on Committees and is comprised of 3 audiologists, 3 speech language pathologists, and 3 members from either profession, all of whom are Fellows of the Association. The COH reviews nominations for awards of the association, including Fellow and Honors, the highest awards of distinction awarded by the association. I served a four-year term as a site visitor for The Council on Academic Accreditation (CAA) in Audiology and Speech Language Pathology. The CAA establishes standards for the accreditation of graduate programs in Speech Language Pathology and Audiology.

### **Narrative Report of Academic Leadership and Accomplishments:**

Prior to accepting my current position at the University of Pittsburgh, I served as Associate Vice Chair for Research in the Department of Otolaryngology at Vanderbilt University School of Medicine. In this role, I served on the Executive Leadership Team that reported directly to the

Director of the Vanderbilt Bill Wilkerson Center for Otolaryngology and Communication Sciences and the Guy M. Maness Professor and Chairman of the Department of Otolaryngology, Roland D. Eavey, M.D., S.M. This included fiscal and administrative oversight of a **\$1.0 million dollar annual operating budget** and **\$4.7 million dollars in annual grant revenue**. In my academic leadership role, I provided specific oversight of the basic science research programs, laboratories, and support for the basic science research missions of the department. Departmental research activities included federal, non-federal, and industry sponsored research grants and a portfolio of **15 federally funded research awards (\$3.1 million dollars)**, **10 industry sponsored clinical trials (\$700 thousand dollars)**, and **2 internal grant awards (\$140 thousand dollars)**. Investments in growth of departmental research laboratories, faculty, research infrastructure, and support for faculty research activities led to a **37% increase in federal research funding** and **23% increase in funding for industry sponsored clinical trials** during the period 2015-2017. The department ranked #4 among departments of otolaryngology in NIH sponsored research. I also served on faculty search committees and chaired (2015) a faculty search in the area of Neurogenic Speech Disorders that resulted in the successful recruitment of 2 senior/mid-career level faculty recruits to the Department of Hearing and Speech Sciences. These two positions strengthened an already strong and robust clinical program in the area of adult neurogenics at Vanderbilt University School of Medicine and the Pi Beta Phi Rehabilitation Institute at the Vanderbilt Bill Wilkerson Center. With the successful recruitment of a junior faculty hire in the area of speech sciences (dysarthria) in 2013/2014, these two additional faculty hires in 2015/2016 led to strategic growth of the research enterprise by strengthening the academic missions of the Department of Hearing and Speech Sciences in the area of adult neurogenics, with particular emphasis in dysarthria (speech), aphasia (language), and cognition/memory. The department was consistently ranked #1 in Speech-Language Pathology in the USNWR rankings.

## UNIVERSITY AND MEDICAL SCHOOL

Laboratory-based mentor Vanderbilt University School of Medicine Emphasis Program	2008-2013
Member, Resident Research Review Committee Vanderbilt University Department of Otolaryngology.	2008-2018
Member, Resident Applicant Review Committee Vanderbilt University Department of Otolaryngology	2008-2018
Member, Admissions Review Committee Vanderbilt University Department of Hearing and Speech Sciences	2008-2018
Member, Ad-Hoc Committee Response to Graduate Task Force	2009-2010

Report on Ph.D. Program  
Vanderbilt University  
Department of Hearing and Speech Sciences.

Member, Ad-Hoc Committee 2009-2010  
Ph.D. Program Teaching  
Requirement, Vanderbilt University  
Department of Hearing and Speech Sciences.

Member, Ad-Hoc Committee 2010-2011  
Ph.D. Student Recruiting  
Vanderbilt University  
Department of Hearing and Speech Sciences.

Member, Junior Faculty Mentoring Committee 2010-2018  
Vanderbilt University  
Department of Hearing and Speech Sciences.

Member, Faculty Search Committee 2011-2012  
(Neurogenic Speech Disorders)  
Vanderbilt University  
Department of Hearing and Speech Sciences.

Member, Faculty Search Committee 2011-2012  
(Autism Spectrum Disorders)  
Vanderbilt University  
Department of Hearing and Speech Sciences.

Member, Faculty Search Committee 2013-2014  
(Chief of Rhinology)  
Vanderbilt University  
Department of Otolaryngology.

Member, Faculty Search Committee 2013-2014  
(Open rank search in Speech Science)  
Vanderbilt University  
Department of Hearing and Speech Sciences.

Chair, Faculty Search Committee 2015-2016  
(Open rank search in  
Neurogenic communication disorders \*)  
Vanderbilt University  
Department of Hearing and Speech Sciences.  
\*Position for 1. As Chair of Search Committee  
successfully recruited 2 NIH funded  
academic research scientists,

one from the University of Iowa  
and one from the University of Arizona.

Member, Faculty Search Committee (Laryngology) 2017-2018  
Vanderbilt University  
Department of Otolaryngology.

### **Departmental Service Tenure and Promotion**

Member 2014-2015  
Departmental Faculty Promotion Review Committee  
(Dr. Barbara Jacobson), Vanderbilt University  
Department of Hearing and Speech Sciences.

Member, Departmental Faculty Tenure and 2016-2017  
Promotion Review Committee  
(Dr. Stephen Wilson)  
Vanderbilt University  
Department of Hearing and Speech Sciences.

Member, Departmental Faculty Tenure and 2016-2017  
Promotion Review Committee  
(Dr. Melissa Duff)  
Vanderbilt University  
Department of Hearing and Speech Sciences

Member, Departmental Faculty 2017-2018  
Promotion Review Committee  
(Dr. Michael de Riesthal)  
Vanderbilt University  
Department of Hearing and Speech Sciences.

### **Major Committee Assignments**

Member, Ad-Hoc Committee on 2005-2006  
Research Integrity and Publication Practices  
Association of American Medical Colleges/  
American Speech Language Hearing Association.

Member 2008  
Scientific Program Committee  
ASHA

Co-chair, Research Committee 2008-2010  
American Speech-Language Hearing Association

Special Interest Group-3, Voice and Voice Disorders.

Member 2013-2014  
American Laryngological Association Scientific Program  
Committee  
American Laryngological Association.

Steering Committee 2013-2015  
American Speech-Language-Hearing  
Association, Special Interest Group-3  
Voice and Voice Disorders.

Member 2013-2018  
Data Safety Monitoring Board (DSMB).  
“Assessment of Esophageal Epithelium  
Integrity with Mucosal Impedance”.

Member 2014  
Voice, Resonance, and Alaryngeal Committee  
Annual Meeting of the  
American Speech Language Hearing Association  
Orlando, Florida.

Member 2014-2018  
ASHA Ad Hoc Committee on the Scope of Practice  
in Speech-Language Pathology.  
American-Speech-Language-Hearing Association.

Member 2014-2015  
Mathematics Textbook Selection Committee  
Williamson County School System  
State of Tennessee.

Site Visitor 2015-2019  
Council on Academic  
Accreditation in Audiology and Speech Pathology (CAA).  
The CAA accredits eligible clinical doctoral programs in  
audiology and master’s degree programs  
in speech-language pathology.

At-large Member 2018-2020  
Committee on Honors (COH).  
The COH is appointed by the Committee on Committees  
and approved by the ASHA Board of Directors.  
Members of the COH serve 3 year terms.  
The COH is comprised of 3 audiologists,



3 speech-language pathologists, and 3 members from either profession, all of whom are ASHA Fellows and in good standing with the Association. The COH receives nominations for Honors, Fellows, and other Association awards.

Chair ASHA Committee on Honors (COH).	2019-2020
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**Other Professional Activities**

Ambassador University Giving Program (Vanderbilt University) American-Speech-Language Hearing Foundation.	2010-2017
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Trustee American-Speech-Language Hearing Foundation.	2020-2023
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