

Rosemary A. Lester-Smith, Ph.D., CCC-SLP

Speech, Language, and Hearing Sciences • Moody College of Communication
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August 2023

EDUCATION

- Ph.D.** 2014 **The University of Arizona (UA)**, Tucson, AZ
Major: Speech, Language, and Hearing Sciences
Minor: Neuroscience
Certificate in College Teaching: Office of Instruction and Assessment
Dissertation: Modulation of Voice Related to Vocal Tremor and Vibrato
- M.S.** 2019 **Northwestern University (NU)**, Chicago, IL
Major: Clinical Investigation
- M.A.** 2007 **Indiana University (IU)**, Bloomington, IN
Major: Speech and Hearing Sciences
- B.A.** 2004 **University of New Mexico (UNM)**, Albuquerque, NM
Major: Speech and Hearing Sciences
Minor: Psychology

ACADEMIC APPOINTMENTS

- 2018–present Assistant Professor, Speech, Language and Hearing Sciences (SLHS), Moody College of Communication, University of Texas at Austin (UT)
- 2016–2018 Postdoctoral Fellow, Physical Medicine and Rehabilitation, Feinberg School of Medicine, NU
- 2016–2018 Research Collaborator, Head and Neck Regeneration Laboratory, Mayo Clinic College of Medicine, Mayo Clinic, Scottsdale, AZ
- 2015–2016 Postdoctoral Associate, Stepp Lab for Sensorimotor Rehabilitation Engineering, Speech, Language, and Hearing Sciences, Boston University (BU), Boston, MA
- 2015 Assistant Professor, Otorhinolaryngology, Mayo Clinic College of Medicine, Mayo Clinic, Phoenix, AZ

CLINICAL EXPERIENCE

- 2014-2015 Speech-Language Pathologist, Otorhinolaryngology, Mayo Clinic, Phoenix, AZ
- 2010-2014 Speech-Language Pathologist, Outpatient and Inpatient Therapy, Northwest Medical Center, Tucson, AZ
- 2012-2013 Speech-Language Pathologist, Outpatient Therapy, University of Arizona Medical Center, Tucson, AZ
- 2007-2009 Speech-Language Pathologist, Therapy Department, Augusta Health, Fishersville, VA

HONORS AND AWARDS – National and International

- 2020-2022 National Institutes of Health (NIH) Extramural Loan Repayment Program for Clinical Researchers
- 2019 National Spasmodic Dysphonia Association Poster Award, Fall Voice Conference
- 2019-2020 NIH Extramural Loan Repayment Program for Clinical Researchers
- 2018-2019 NIH Extramural Loan Repayment Program for Clinical Researchers
- 2016-2018 NIH Extramural Loan Repayment Program for Clinical Researchers
- 2015 David W. Brewer First Place Award for Best Poster, Voice Foundation Symposium
- 2014 First Place Award for Best Student Paper in Speech Communication, Acoustical Society of America
- 2014 Women in Acoustics Young Investigator Travel Grant, Acoustical Society of America

2013	Dystonia Coalition Travel Award, NS065701
2013	David W. Brewer Honorable Mention for Best Poster, Voice Foundation Symposium
2012	Course Fellowship-Travel Award, Course in Integrated Neuroscience, International Graduate School in Integrated Neuroscience, University of Bergen, Norway
2012	Conference Fellowship-Travel Award, Lessons for Success Research Conference: Developing the Emerging Scientist, American Speech-Language-Hearing Association

HONORS AND AWARDS – Local

2021	Texas Health Catalyst Phase 1 Consulting Award for <i>COVID-19 Voice and Speech Biomarkers</i> (co-recipient with Jun Wang and Edison Thomaz), Dell Medical School, UT
2019, 2023	Faculty Travel Grant, The Graduate School, UT
2018-2019	Society for Teaching Excellence, Academy of Distinguished Teachers, UT
2017	Postdoctoral Professional Development Travel Award, Office of Postdoctoral Affairs, The Graduate School, NU
2016	Travel Grant, Center for Computational Neuroscience and Neural Technology, Boston University
2013-2014	Graduate Student Scholarship/Research Award (two-time recipient), Department of Speech, Language, and Hearing Sciences, College of Science, UA
2012-2014	Galileo Circle Scholarship (three-time recipient), College of Science, UA
2013	Student Travel Awards (two-time recipient), Graduate and Professional Student Council, UA
2011-2013	Student Travel Awards (six-time recipient), Department of Speech, Language, and Hearing Sciences, UA
2012	Graduate Student Teaching Award, Department of Speech, Language, and Hearing Sciences, College of Science, UA
2009-2012	Research Assistantship, Department of Speech, Language, and Hearing Sciences, UA
2011	Thomas J. Hixon Student Research Award

RESEARCH FUNDING

Texas Health Catalyst Phase 2 Funding Award
 Lester-Smith (Co-PI), Wang (PI) 04/01/2022 – 01/31/2023 UT
 COVID-19 Voice and Speech Biomarkers
 \$5,000

NIH National Institute on Aging (NIA) Research Project Grant R01AG077017-01
 Lester-Smith (Co-I), Thomaz (PI) 03/15/2022 – 11/30/2025 UT
 Digital Biomarker and Analytics for Cognitive Impairment with Mobile and Wearable Sensing
 \$225,660 (\$157,796 direct; \$67,864 indirect); total award \$1,200,000 (\$810,490 direct; \$389,510 indirect)

NIH NIDCD Early Career Research Award R21DC017001-01A1
 Lester-Smith (PI) 07/15/2019 – 06/30/2023 UT
 Auditory-Motor Control of Voice in Individuals with Essential Vocal Tremor
 \$447,249 (\$300,000 direct; \$147,249 indirect)

UT Moody College of Communication Summer Research Award
 Lester-Smith (PI) 06/01/2019 – 07/31/2019 UT
 \$9,000

National Institute on Disability Independent Living, and Rehabilitation Research (NIDILRR) Advanced Rehabilitation Research Training Grant 90AR5015
 Leora Cherney (PI) 10/01/2012 - 9/30/2017 NU
 Interventions for Neurologic Communication Disorders
 Role: Postdoctoral Fellow
 Mentors: Charles Larson, Ph.D., and Leora Cherney, Ph.D., CCC-SLP

Arizona State University (ASU) & Mayo Clinic Collaborative Research Seed Grant ARI-195784
 David Lott, M.D. (Mayo Clinic PI), Juergen Neubauer, Ph.D. (ASU PI) 01/01/2015 -01/01/2016
 Neuromuscularly-Controlled In Vivo Canine Larynx: A New Experimental Platform to Study Neurogenic Voice Disorders
 Role: Co-Investigator
 \$40,000

NIH NIDCD Ruth L. Kirschstein Predoctoral Individual National Research Service Award F31DC012697
 Lester (PI) 08/10/2012 - 08/10/2014 UA
 Modulation of Voice Related to Tremor and Vibrato
 Sponsor: Brad H. Story, Ph.D.
 \$83,400 (direct)

PUBLICATIONS (*student mentees italicized*)

Refereed Journal Articles

- Kurteff, G., **Lester-Smith, R.A.**, Martinez, A., Currens, N., Holder, J., Villarreal, C., Mercado, V., Truong, C., Huber, C., Pokharel, P., & Hamilton, L.S. (in press). Speaker-induced suppression in EEG during a naturalistic reading and listening task. *Journal of Cognitive Neuroscience*.
- Hilger, A., Levant, S., Kim, J.H., **Lester-Smith, R.A.**, & Larson, C.R. (in press). Task-dependent modulation of auditory feedback control of vocal intensity. *Journal of Voice*. Advance online publication. [https://doi.org/10.1016/j.jvoice.2022.08.004]
- Lester-Smith, R.A.**, Hilger, A., *Dunne-Platero, K.E.*, Kim, J.H., Chan, C.L., & Larson, C.R. (in press) The effects of masked and delayed auditory feedback on fundamental frequency modulation in vocal vibrato. *Journal of Voice*. Advance online publication. [https://doi.org/10.1016/j.jvoice.2022.01.029]
- Lester-Smith, R.A.**, *Jebaily, C.G.*, & Story, B.H. (in press). The effects of remote signal transmission and recording on acoustical measures of simulated essential vocal tremor: Considerations for remote treatment research and telepractice. *Journal of Voice*. Advance online publication. [https://doi.org/10.1016/j.jvoice.2021.09.012]
- Lester-Smith, R.A.**, *Derrick, E.*, & Larson, C.R. (in press). Characterization of source-filter interactions in vocal vibrato using a neck-surface vibration sensor. *Journal of Voice*. Advance online publication. [https://doi.org/10.1016/j.jvoice.2021.08.004]
- Lester-Smith, R.A.**, Miller, C.H., & Cherney, C.R. (2023). Behavioral therapy for individuals with tremor or dystonia affecting voice in speakers with hyperkinetic dysarthria: A systematic review. *Journal of Voice*, 37(4), 561-573. [https://doi.org/10.1016/j.jvoice.2021.03.026]
- Lester-Smith, R.A.**, Kim, J.H., Hilger, A., Chan, C.L., & Larson, C.R. (2023). Auditory-motor control of fundamental frequency in vocal vibrato. *Journal of Voice*, 37(2), 296.e9-296.e.19. [https://doi.org/10.1016/j.jvoice.2020.12.049]
- Schenck, A., Hilger, A.I., Levant, S., Kim, J.H., **Lester-Smith, R.A.**, & Larson, C. (2023). The effect of pitch and loudness auditory feedback perturbations on vocal quality during sustained phonation. *Journal of Voice*, 37(1), 37-47. [https://doi.org/10.1016/j.jvoice.2020.11.001]
- Abur, D., Subaciute, A., Daliri, A., **Lester-Smith, R.A.**, Lupiani, A.A., Cilento, D., Enos, N.M., Weerathunge, H.R., Tardif, M.C., Stepp, C.E. (2021). Feedback and feedforward auditory-motor processes for voice and articulation in Parkinson's disease. *Journal of Speech, Language, and Hearing Research*, 64, 4682-4694. [https://doi.org/10.1044/2021_JSLHR-21-00153]
- Lester-Smith, R.A.**, Daliri, A., Enos, N., Abur, D., Lupiani, A.A., Letcher, S., & Stepp, C.E. (2020). The relation of articulatory and vocal auditory-motor control in typical speakers. *Journal of Speech, Language, and Hearing Research*, 63, 3628-3642. [https://doi.org/10.1044/2020_JSLHR-20-00192].
- Hilger, A., Cole, J., Kim, J.H., **Lester-Smith, R.A.**, & Larson, C. (2020). The effect of pitch auditory feedback perturbations on the production of anticipatory phrasal prominence and boundary. *Journal of Speech, Language, and Hearing Research*, 63, 2185-2201. [https://doi.org/10.1044/2020_JSLHR-19-00043].
- Abur, D., **Lester-Smith, R.A.**, Daliri, A., Lupiani, A.A., Guenther, F.H., & Stepp, C.E. (2018). Sensorimotor adaptation of voice fundamental frequency in Parkinson's disease. *PLoS ONE*, 13(10), e0191839, [https://doi.org/10.1371/journal.pone.0191839].

- Stepp, C.E., **Lester-Smith, R.A.**, Abur, D., Daliri, A., Noordzij, J., & Lupiani, A. (2017). Evidence for auditory-motor impairment in individuals with hyperfunctional voice disorders. *Journal of Speech, Language, and Hearing Research*, 60, 1545-1550, [http://dx.doi.org/10.1044/2017_JSLHR-S-16-0282].
- Lester-Smith, R.A.**, & Story, B.H. (2016). The effects of physiological adjustments on the perceptual and acoustical characteristics of vibrato as a model of vocal tremor. *Journal of the Acoustical Society of America*, 140(5), 3827-3833, [http://dx.doi.org/10.1121/1.4967454].
- Lester, R.A.**, & Story, B.H. (2015). The effects of physiological adjustments on the perceptual and acoustical characteristics of simulated laryngeal vocal tremor. *Journal of the Acoustical Society of America*, 138(2), 953-963, [http://dx.doi.org/10.1121/1.4927561].
- Carbonell, K.M., **Lester, R.A.**, Story, B.H., & Lotto, A.J. (2015). Discriminating simulated vocal tremor source using amplitude modulation spectra. *Journal of Voice*, 29(2), 140-147, [http://dx.doi.org/10.1016/j.jvoice.2014.07.020].
- Fuglevand, A.J., **Lester, R.A.**, & Johns, R.K. (2015). Distinguishing intrinsic from extrinsic factors underlying firing rate saturation in human motor units. *Journal of Neurophysiology*, 113(5), 1310-1322, [http://dx.doi.org/10.1152/jn.00777.2014].
- Lester, R.A.**, & Hoit, J.D. (2014). Nasal and oral inspiration during natural speech breathing. *Journal of Speech, Language, and Hearing Research*, 57(3), 734-742, [http://dx.doi.org/10.1044/1092-4388(2013)13-0096].
- Lester, R.A.**, Barkmeier-Kraemer, J., & Story, B.H. (2013). Physiologic and acoustic patterns of essential vocal tremor. *Journal of Voice*, 27(4), 422-432, [http://dx.doi.org/10.1016/j.jvoice.2013.01.002].
- Lester, R.A.**, & Story, B.H. (2013). Acoustic characteristics of simulated respiratory-induced vocal tremor. *American Journal of Speech-Language Pathology*, 22(2), 205-211, [http://dx.doi.org/10.1044/1058-0360(2012)12-0043].
- Cipriani, N.A., Martin, D.E., Corey, J.P., Portugal, L., Caballero, N., **Lester, R.**, Anthony, B., & Taxy, J.B. (2011). The clinicopathologic spectrum of benign mass lesions of the vocal fold due to vocal abuse. *International Journal of Surgical Pathology*, 19(5), 583-587, [http://dx.doi.org/10.1177/1066896911411480].

Refereed Conference Papers

- Lester, R.A.**, & Story, B.H. (2013). Modulation of voice related to simulated vocal fold length change with cricothyroid and thyroarytenoid muscle activation. *Proceedings of the 10th International Conference on Advances in Quantitative Laryngology, Voice and Speech Research*, 63-64.

Refereed Commentaries

- Rosbach, A.M., & **Lester-Smith, R.A.** (accepted 2023). Summary and Commentary: Greater Severity of Non-Instrumental and Instrumental Voice Assessment Findings May Predict Longer than 7.5 Session Duration of Pediatric Voice Therapy for Benign Vocal Fold Pathologies. *Evidence-Based Communication Assessment and Intervention*. [invited]

Conference Abstracts

- Lester-Smith, R.A.** & Story, B.H. (2019). Degree of vocal fold adduction affects listener perception of simulated laryngeal vocal tremor. *Journal of the Acoustical Society of America*, 146, 2922, [http://doi.org/10.1121/1.5137141].
- Hilger, A.I., Levant, S., Kim, J., **Lester-Smith, R.A.**, & Larson, C.R. (2019). Auditory feedback control of vocal intensity during speech and sustained vowel production. *Journal of the Acoustical Society of America*, 146, 3052, [http://doi.org/10.1121/1.5137580].
- Lester, R.A.**, Story, B.H., & Lotto, A.J. (2014). Acoustical bases for the perception of simulated laryngeal vocal tremor. *Journal of the Acoustical Society of America*, 2293, 3052, [http://doi.org/10.1121/1.4900289].
- Carbonell, K.M., Story, B.H., **Lester, R.A.**, & Lotto, A.J. (2012). Discriminating vocal tremor source from amplitude modulations. *Journal of the Acoustical Society of America*, 132, 2090, [http://doi.org/10.1121/1.4755723].

Non-Refereed Articles

- Lester, R.A.** (2014, April). Straight talk on therapy for vocal tremor. Tremor Talk: For Members of the International Essential Tremor Foundation, 4-5. [invited]

CONFERENCE PRESENTATIONS (*student mentees italicized*)

- Ghosh, N.*, **Lester-Smith, R.A.** (June 2023). Breathy voice as a compensatory strategy for essential vocal tremor: A single case experiment across participants. Voice Foundation Symposium, Philadelphia, PA.
- Lester-Smith, R.A.** (July 2021). Evidence-based voice therapy for vocal tremor and laryngeal dystonia. Presented online for the Texas Speech-Language-Hearing Association Academic Webinar Series.
- Lester-Smith, R.A.**, *Derrick, E.*, & Larson, C.R. (June, 2021). Characterization of source-filter interactions in vocal vibrato using neck-surface accelerometry. Presented online for the Voice Foundation Virtual Symposium.
- Lester-Smith, R.A.**, *Jebaily, C.G.*, & Story, B.H. (June, 2021). Optimizing acoustical and perceptual assessment of vocal tremor for telepractice. Presented online for the Voice Foundation Virtual Symposium.
- Lester-Smith, R.A.**, Miller, C.H., & Cherney, L.R. (November, 2020). Behavioral therapy for individuals with tremor or dystonia affecting the speech mechanism. Proposal accepted for the Annual Convention of the American Speech-Language-Hearing Association, San Diego, CA (convention cancelled).
- Lester-Smith, R.A.**, *Dunne, K.*, Larson, C.R., & Cherney, L.R. (November, 2020). The effects of physiological adjustments on voice modulation in vocal tremor and vibrato. Proposal accepted for the Annual Convention of the American Speech-Language-Hearing Association, San Diego, CA (convention cancelled).
- Lester-Smith, R.A.**, *Dunne, K.*, *Derrick, E.*, Larson, C.R., & Cherney, L.R. (October, 2020). The effects of voice quality, pitch, and loudness adjustments on vocal tremor and vibrato. Presented online for the Fall Voice Virtual Conference.
- Lester-Smith, R.A.** (November, 2017). The importance of auditory feedback in speech and voice motor control. Annual Convention of the American Speech-Language-Hearing Association, Los Angeles, CA.
- Lester, R.A.** (November, 2013). The physiological, acoustical, and perceptual characteristics of vocal tremor. Annual Convention of the American Speech-Language-Hearing Association, Chicago, IL.

CONFERENCE POSTERS (*student mentees italicized*)

- Hilsabeck, R.C., Keller, J., Henry, M.L., Li, J.J., Pugalenth, K., Rathouz, P., Toprac, P., Chang, P., Chang, J., Schmitz, S., Largent A., Foil, H., Brouillette R., & **Lester-Smith, R.A.** (July, 2023). Combining working memory and speech data in a digital app for early detection of cognitive impairment in primary care. Poster to be presented at the Alzheimer's Association International Conference (AAIC), Amsterdam, NL.
- Ghosh, N.*, *Derrick, E.*, **Lester-Smith, R.A.** (April, 2022). Effect of breathiness on essential voice tremor. 4th Annual Interprofessional Health Showcase, UT, Austin, TX.
- Lester-Smith, R.A.**, Story, B.H., & *Eidson, E.L.* (February, 2022). Source-filter interactions in simulated respiratory and laryngeal tremor. Poster presented by E. Eidson at the Conference on Motor Speech, Charleston, SC.
- Lester-Smith, R.A.**, Miller, C.H., & Cherney, L.R. (October, 2020). Treating vocal tremor and dystonia: evidence for voice therapy. Poster presented at the Fall Voice Virtual Conference.
- Abur, D., Subaciete, A., Daliri, A., **Lester-Smith, R.A.**, Lupiani, A.A., Cilento, D., Enos, N.M., Tardif, M., Weerathunge, H.R., & Stepp, C.E. (February, 2020). Auditory-motor bases of voice and articulatory impairments in Parkinson's disease. Poster presented at the Conference on Motor Speech, Santa Barbara, CA.
- Lester-Smith, R.A.** & Story, B.H. (December, 2019). Degree of vocal fold adduction affects listener perception of simulated laryngeal vocal tremor. Poster presented at the 178th Meeting of the Acoustical Society of America, San Diego, CA.
- Hilger, A.I., Levant, S., Kim, J., **Lester-Smith, R.A.**, & Larson, C.R. (December, 2019). Auditory feedback control of vocal intensity during speech and sustained vowel production. Poster presented at the 178th Meeting of the Acoustical Society of America, San Diego, CA.
- Lester-Smith, R.A.**, *Dunne, K.E.*, *Looper, M.A.*, & Larson, C.R. (October, 2019). The effects of masked and delayed auditory feedback on fundamental frequency modulation in vocal vibrato. Poster presented at the Fall Voice Conference, Dallas, TX. **National Spasmodic Dysphonia Association Poster Award.**
- Lester-Smith, R.A.**, & Larson, C.R. (May, 2019). Auditory-motor control of pitch in individuals with essential vocal tremor: A pilot study. Poster presented electronically at the Voice Foundation Symposium, Philadelphia, PA.
- Lester-Smith, R.A.**, Cherney, L.R., & Larson, C.R. (February, 2018). Auditory-motor control of vocal vibrato. Poster presented by C. Larson at the Conference on Motor Speech, Savannah, GA.

- Stepp, C.E., Heller Murray, E.S., Abur, D., **Lester-Smith, R.A.**, Daliri, A., Noordzij, J.P., & Lupiani, A.A. (July, 2017). Auditory-motor impairment as an underlying basis of hyperfunctional voice disorders. Poster presented by E. Heller Murray at the 7th International Conference on Speech Motor Control, Groningen, Netherlands.
- Lester, R.A.**, & Story, B.H. (March, 2016). Predicting listener perception of simulated laryngeal vocal tremor using a novel measure of pitch modulation strength. Poster presented at the Conference on Motor Speech, Newport Beach, CA.
- Lester, R.A.**, & Story, B.H. (May, 2015). Acoustical bases for the perception of vibrato as a model of vocal tremor. Poster presented at the Voice Foundation Symposium, Philadelphia, PA. ***First Place Award for Best Poster***
- Lester, R.A.**, Story, B.H., & Lotto, A.J. (October, 2014). Acoustical bases for the perception of simulated laryngeal vocal tremor. Poster presented at the 168th Meeting of the Acoustical Society of America, Indianapolis, IN. ***First Place Award for Best Student Paper in Speech Communication***
- Lester, R.A.**, Story, B.H. (June, 2013). Modulation of voice related to simulated vocal fold length change with cricothyroid and thyroarytenoid muscle activation. Poster presented at the Advances in Quantitative Laryngology, Voice and Speech Research, Cincinnati, OH.
- Lester, R.A.**, Story, B.H. (June, 2013). Modulation of voice related to tremor and vibrato. Poster presented at the Voice Foundation Symposium, Philadelphia, PA. ***Honorable Mention for Best Poster***
- Carbonell, K.M., Story, B.H., **Lester, R.A.**, & Lotto, A.J. (October, 2012). Discriminating vocal tremor source from amplitude modulations. Poster presented at the 164th Annual Meeting of the Acoustical Society of America, Kansas City, MO.
- Lester, R.A.**, & Hoit, J.D. (April, 2012). Oral vs. nasal breathing during natural speech production. Poster presented at Colloquium, Department of Speech, Language, and Hearing Sciences, UA, Tucson, AZ.
- Lester, R.A.**, & Hoit, J.D. (April, 2012). Oral vs. nasal breathing during natural speech production. Poster presented at the Arizona Speech-Language-Hearing Annual Convention, Phoenix, AZ.
- Lester, R.A.**, & Story, B.H. (March, 2012). Acoustic characteristics of respiratory-induced vocal tremor. Poster presented at the Conference on Motor Speech, Santa Rosa, CA.
- Lester, R.A.** (April, 2010). Investigation of the laryngeal physiology of vocal tremor in individuals with essential tremor. Poster presented at Colloquium, Department of Speech, Language, and Hearing Sciences, UA, Tucson, AZ.

INVITED PRESENTATIONS

- Lester-Smith, R.A.** (May, 2023). Knowing Your Instrument: Anatomy and Physiology of Voice. Voice Seminar, Health Alliance for Austin Musicians, CommUnity Care Southeast Health and Wellness Center, Austin, TX.
- Lester-Smith, R.A.**, (October, 2022). Source-filter interactions in vocal tremor and vibrato. Texas Acoustics Seminar, Department of Mechanical Engineering, UT, Austin, TX.
- Lester-Smith, R.A.** (February, 2022). Current research on essential vocal tremor. UT Southwestern Movement Disorder Physicians Group Meeting, Dallas, TX (presented virtually).
- Lester-Smith, R.A.** (February, 2020). Clinical and research perspectives on vocal tremor. Austin Spasmodic Dysphonia Support Group Meeting, UT, Austin, TX.
- Lester-Smith, R.A.** (August, 2019). Getting to know your instrument. Voice Seminar, Health Alliance for Austin Musicians, CommUnity Care Southeast Health and Wellness Center, Austin, TX.
- Lester-Smith, R.A.** (April, 2019). Auditory-motor control of voice in healthy and neurologically-impaired speakers. Annual Spring Symposium; Center for Brain, Behavior, and Evolution; UT; Austin, TX.
- Lester-Smith, R.A.** (March, 2019). Simulating essential vocal tremor with vocal vibrato. Think + Speak Lab Research Presentations for Renée Fleming and Team, Shirley Ryan AbilityLab, Chicago, IL.
- Lester-Smith, R.A.** (October, 2018). Simulating essential vocal tremor with vocal vibrato. Think + Speak Lab Research Presentations for VIP Tour, Shirley Ryan AbilityLab, Remote Presentation, Chicago, IL.
- Lester-Smith, R.A.** (July, 2017). Physiological adjustments affect the perceptual and acoustical characteristics of simulated vocal tremor. AbilityLab Research Seminar Series, Shirley Ryan AbilityLab, Chicago, IL.
- Lester-Smith, R.A.** (May, 2017). Assessing dysphonia and improving vocal ability across the continuum of care. Better Speech and Hearing Month Continuing Education Course, Shirley Ryan AbilityLab, Chicago, IL.

- Lester-Smith, R.A.** (December, 2016). Essential vocal tremor: Clinical and research perspectives. Essential Tremor Community Event, Rush-Copley Medical Center, Aurora, IL.
- Lester-Smith, R.A.** (October, 2016). Essential vocal tremor: Clinical and research perspectives. Essential Tremor Support Group Meeting, Rush-Copley Medical Center, Aurora, IL.
- Lester, R.A.** (September, 2015). How well do you know your instrument? Gordon College Department of Music Voice Awareness Day, Boston University, Boston, MA.
- Lester, R.A.** (September, 2015). The effects of physiological adjustments on the perceptual and acoustical characteristics of vocal tremor. Boston Speech Motor Control Working Group, Boston University, Boston, MA.
- Lester, R.A.** (July, 2015). Tremor and dystonia. Geriatric Residency Program, Mayo Clinic, Phoenix, AZ.
- Lester, R.A., & Lott, D.G.** (June, 2015). Neurogenic disorders of voice. Otorhinolaryngology Resident Grand Rounds, Mayo Clinic, Phoenix, AZ.
- Lott, D.G., & Lester, R.A.** (April, 2015). Glottal incompetence. Otorhinolaryngology Resident Grand Rounds, Mayo Clinic, Phoenix, AZ.
- Lester, R.A., Kang, C., Crujido, L.** (March, 2015). Stroboscopy training for otorhinolaryngology physician assistants. Mayo Clinic, Phoenix, AZ.
- Lester, R.A.** (January, 2015). How well do you know your instrument? Phoenix Opera and Mayo Clinic Southwest Opera Competition: A Showcase of Excellence in Voice and Vocal Health. Mayo Clinic, Scottsdale, AZ.
- Lott, D.G., & Lester, R.A.** (October, 2014). Normal and disordered swallowing. Otorhinolaryngology Resident Grand Rounds, Mayo Clinic, Phoenix, AZ.
- Lester, R.A.** (July, 2014). Neurogenic voice disorders. Otolaryngology Resident Grand Rounds, University of Arizona Medical Center, Tucson, AZ.
- Lester, R.A.** (July, 2014). Physiology of swallowing. Otolaryngology Resident Grand Rounds, University of Arizona Medical Center, Tucson, AZ.
- Lester, R.A.** (February, 2014). Ethical considerations in speech, language, and hearing research. Colloquium, Department of Speech, Language, and Hearing Sciences, UA, Tucson, AZ.
- Lester, R.A.** (December, 2013). Neurogenic disorders of voice: Clinical and research perspectives. Neurology Grand Rounds, Mayo Clinic, Phoenix, AZ.
- Lester, R.A.** (November, 2013). Neurogenic disorders of voice and swallowing: Clinical and research perspectives. Otorhinolaryngology Grand Rounds, Mayo Clinic, Phoenix, AZ.
- Black, M., & Lester, R.A.** (March, 2013). Presbyphonia: Impact of voice changes on the aging larynx. Otolaryngology Grand Rounds, University of Arizona Medical Center, Tucson, AZ.
- Lester, R.A., & Dysinger, A.** (October, 2012). Introduction to normal swallowing function, clinical evaluation of swallowing, and acute dysphagia management. National Student Speech-Language-Hearing Association Forum, UA, Tucson, AZ.
- Lester, R.A.** (December-February, 2008). Voice anatomy and physiology, voice disorders, voice evaluation, voice treatment. Voice Education Series, Speech Pathology Department, Augusta Medical Center, Fishersville, VA.

TEACHING EXPERIENCE

Instructor

- Lester-Smith, R.A.**, (Fall 2023). SLH 393Q: Acquired Speech Disorders, UT, Austin, TX.
- Lester-Smith, R.A.**, (Spring 2020, Spring 2021, Spring 2023). SLH 393V: Voice Disorders, UT, Austin, TX.
- Lester-Smith, R.A.** (Fall 2018, Spring 2019, Fall 2019, Fall 2020, Spring 2021, Fall 2021, Fall 2022). SLH 358: Anatomy and Physiology of the Speech and Hearing Mechanisms, UT, Austin, TX.

Adjunct Instructor

- Lester, R.A.** (Spring 2014). SPH 557: Dysphagia, UA, Tucson, AZ.

Preceptor

- Lester, R.A.** (Spring 2012). SPH 261: Anatomy and Physiology of the Speech Mechanism, UA, Tucson, AZ.
- Lester, R.A.** (Fall 2011). SPH 572: Voice Disorders, UA, Tucson, AZ.

Guest Lecturer

- Lester-Smith, R.A.** (May, 2023). Diversity of Communication Abilities: How the Field of Speech, Language, and Hearing Sciences Hooked Me. COM 302E: Communication Foundations II, UT, Austin, TX.
- Jones, C., & **Lester-Smith, R.A.** Flexible Fiberoptic Endoscopic Evaluation of Swallowing Demonstration. (Fall 2022). SLH 393D: Dysphagia, UT, Austin, TX.
- Lester-Smith, R.A.** (September, 2020, 2021, 2022). Optimizing voice production for communication. COM 301E: Communication Foundations, UT, Austin, TX.
- Lester-Smith, R.A.** (November, 2021). Research ethics. SLHS Doctoral Seminar, UT, Austin, TX.
- Lester-Smith, R.A.** (October, 2019). The job search. CSD PhD Professional Development Seminar, UT, Austin, TX.
- Lester-Smith, R.A.** (April, 2019). Neurological voice disorder case studies. CSD 393D: Knowledge and Skills, CSD 367R: Clinical Research in Speech-Language Pathology, CSD 140L: Professional Issues, UT, Austin, TX.
- Lester-Smith, R.A.** (April, 2017). Neurological voice disorders: Vocal tremor. CSD 493-1: Vocal Physiology and Pathology, NU, Evanston, IL.
- Lester, R.A.** (November, 2015). Collaborative assessment of spasmodic dysphonia and vocal tremor. SPPA 6410: Voice Disorders, Marquette University, Milwaukee, WI.
- Lester, R.A.** (April, 2014). Research Misconduct. SLHS 649: Survival Skills and Ethics, UA, Tucson, AZ.
- Lester, R.A.** (April, 2014). Improving Vocal Health in Singers with Voice Therapy. Music 510: Pedagogy, UA, Tucson, AZ.
- Lester, R.A.** (March, 2014). Grants and Grantpersonship Panel. SLHS 649: Survival Skills and Ethics, UA, Tucson, AZ.
- Lester, R.A.** (February, 2014). Ethical Considerations in Speech, Language, and Hearing Research. SLHS 500: Introduction to Research Methods in Speech and Hearing Sciences, UA, Tucson, AZ.
- Lester, R.A.** (December, 2013). Maintaining Vocal Health in Teachers. Music 250: Introduction to Music Education, UA, Tucson, AZ.
- Lester, R.A.** (November, 2013). The physiological, acoustical, and perceptual characteristics of vocal tremor. SLHS 575: Neuromotor Speech Disorders, UA, Tucson, AZ.
- Lester, R.A., & Black, M.** (April, 2013). Voice Evaluation and Treatment. Music 550: Advanced Studies in Teaching: Science-Based Voice Education, UA, Tucson, AZ.
- Lester, R.A.** (April, 2013). Modulation of Voice Related to Tremor and Vibrato. SLHS 267: Acoustics, UA, Tucson, AZ.
- Lester, R.A.** (April, 2013). Research Misconduct. SLHS 649: Survival Skills and Ethics, UA, Tucson, AZ.
- Bunton, K., **Lester, R.A.**, Chong, C., Faux, C, Hoit, J. (March, 2013). Applications of nasal ram pressure for evaluating velopharyngeal function. Colloquium, Department of Speech, Language, and Hearing Sciences, UA, Tucson, AZ.
- Lester, R.A.** (February, 2013). Grants and Grantpersonship Panel. SLHS 649: Survival Skills and Ethics, UA, Tucson, AZ.
- Lester, R.A.** (November, 2012). Maintaining Vocal Health in Teachers. Music 250: Introduction to Music Education, UA, Tucson, AZ.
- Lester, R.A.** (October, 2012). Voice Case Studies. SPH 572: Voice Disorders, UA, Tucson, AZ.
- Lester, R.A.** (October, 2012). Evaluating and Treating the Professional Voice User. SPH 572: Voice Disorders, UA, Tucson, AZ.
- Lester, R.A.** (October, 2012). Evaluation and Treatment of Voice. SPH 477: Adult Communication Disorders, UA, Tucson, AZ.
- Lester, R.A.** (October, 2012). Normal and Disordered Voice. SPH 477: Adult Communication Disorders, UA, Tucson, AZ.
- Lester, R.A.** (September, 2012). Modulation of the voice related to tremor and vibrato. Colloquium, Department of Speech, Language, and Hearing Sciences, UA, Tucson, AZ.
- Lester, R.A.** (April, 2012). Evaluating Voice. SPH 512: Evaluation Process in Speech-Language Pathology, UA, Tucson, AZ.
- Lester, R.A.** (October, 2011). Disordered Swallowing. SPH 207: Survey of Human Communication and Its Disorders, UA, Tucson, AZ.

- Lester, R.A.** (October, 2011). Disorders of Voice. SPH 207: Survey of Human Communication and Its Disorders, UA, Tucson, AZ.
- Lester, R.A.** (September, 2011). Disorders of Voice. SPH 477: Communication Disorders I, UA, Tucson, AZ.
- Lester, R.A.** (October, 2011). Acoustic characteristics of respiratory-induced vocal tremor. Colloquium, Department of Speech, Language, and Hearing Sciences, UA, Tucson, AZ.
- Lester, R.A.** (November, 2010). Evaluating and Treating the Professional Voice User. SPH 572: Voice Disorders, UA, Tucson, AZ.
- Lester, R.A.** (October, 2010). Disorders of Voice. SPH 207: Survey of Human Communication and Its Disorders, UA, Tucson, AZ.
- Lester, R.A.** (September, 2010). Evaluation and Treatment of Voice. SPH 477: Adult Communication Disorders, UA, Tucson, AZ.
- Lester, R.A.** (September, 2010). Normal and Disordered Voice. SPH 477: Adult Communication Disorders, UA, Tucson, AZ.
- Lester, R.A., & Nickerson, L.A.** (February, 2010). Review of Anatomy and Physiology of Deglutition. SPH 577: Dysphagia, UA, Tucson, AZ.
- Lester, R.A., & Nickerson, L.A.** (February, 2010). Anatomy and Physiology of Deglutition: Pharyngeal Stage. SPH 577: Dysphagia, UA, Tucson, AZ.

RESEARCH ADVISING

Doctoral Student Advisory Committee Chair Nayanika Ghosh, SLHS, UT	August 2021 – present
Doctoral Student Advisory Committee Member Garret Kurteff, SLHS, UT	August 2021 – present
Doctoral Student Treatise Co-Supervisor Natalie Cummings, Butler School of Music, UT	December 2019 – April 2022
Doctoral Student Research Rotation Supervisor Beiming Cao, Electrical Engineering, UT Fan-Yin Cheng, SLHS, UT	September 2022 – January 2023 June 2022 – August 2022
Master's Student Thesis Committee Member Elizabeth Eidson, SLHS, UT Garret Kurteff, SLHS, UT	January 2023 – present April 2019 – December 2020
Master's Student Research Advisor Rachel Rubinstein, SLHS, UT Elizabeth Eidson, SLHS, UT Ashley Rothwell, SLHS, UT Elaina Derrick, SLHS, UT Greg Jebaily, SLHS, UT Kylie Dunne, SLHS, UT	September 2022 – May 2023 September 2022 – June 2023 January 2022 – August 2022 September 2020 – May 2022 March 2020 – July 2020, August 2019 – December 2019 January 2019 – July 2020
Master's Student Research Co-Advisor Chi-An (Anne) Chen, CSD, NU	August – December 2017
Postbaccalaureate Student Research Advisor Elizabeth Eidson, SLHS, UT	June 2021 – August 2022
Undergraduate Student Research Advisor Isabella Forestieri, SLHS, UT	June 2023 – present

Elaina Derrick, SLHS, UT
 Melanie Looper, SLHS, UT

August 2019 – August 2020
 January 2019 – July 2020

Undergraduate Student Research Co-Advisor

Sophia Letcher, SLHS, BU
 Nicole Enos, Biomedical Engineering, BU

May 2016 – August 2016
 March 2016 – August 2016

ACADEMIC ADVISING

Plan II Honors Sophomore Faculty Advisor

January 2022

Leigha Forrest, SLHS, UT

CLINICAL SUPERVISION, TRAINING, AND MENTORING

2023	Clinical Co-Supervisor; 8 MS SLHS Students, Voice Screenings for Health Alliance for Austin Musicians, Austin, TX
2022	Clinical Supervisor; Ashley Rothwell; MS SLHS Students, UT Voice Lab, Austin, TX.
2021	Clinical Supervisor; Anna Hammer, Faria Kazi; MS SLHS Students, UT Voice Lab, Austin, TX.
2015-2016	Endoscopy Training, Victoria McKenna, Speech-Language Pathologist and Doctoral Student, Stepp Lab for Sensorimotor Rehabilitation Engineering, BU, Boston, MA
2014-2015	Co-Instructor for Residents and Physician Assistant Fellows' Voice Pathology Observations, Otorhinolaryngology, Mayo Clinic, Phoenix, AZ
2014-2015	Co-Supervisor for Arizona State University Masters-Level Clinicians' Voice Pathology Observations, Otorhinolaryngology, Mayo Clinic, Phoenix, AZ
2012-2013	Co-Supervisor, Chelsea Bayley, Clinical Fellow in Speech-Language Pathology, Outpatient Therapy, University of Arizona Medical Center, Tucson, AZ

SERVICE

2022-present	Founder and Coordinator, Voice Research of Texas (VoRTex) Biannual Virtual Meetings
2022	Reviewer, New Century Scholars Doctoral Scholarship, American Speech-Language-Hearing Foundation
2021-present	Co-Editor, The Voice Newsletter, The Voice Foundation
2021	Session Chair, Voice Foundation Virtual Symposium
2020-2021	Member, Admissions Review Subcommittee, Master of Science, SLHS, UT
2020, 2021	Editorial Board Member (Speech), Journal of Speech, Language, and Hearing Research (5-6 manuscript reviews per year)
2020	Member, Professor of Practice Faculty Search Committee, SLHS, UT
2020	Member, Infection Prevention and Control Work Group, SLHS, UT
2022	Co-Supervisor, Voice Screenings for Health Alliance for Austin Musicians (HAAM), UT Speech and Hearing Center (UTSHC)
2019-2022	Voice Screening Procedure Development, HAAM and UTSHC
2019	Vocal Health Education, Explore UT
2019-2020	Scholarship Review Committee, SLHS, UT
2019-present	Admissions Review Committee, Master of Science, SLHS, UT

PEER REVIEW

2021	German Research Foundation Grant
2021	Evidence-Based Communication Assessment and Intervention
2020	Poster Judge, Interprofessional Health Showcase, UT
2019	Student Poster Judge, Meeting of the Acoustical Society of America
2019	Language, Cognition, and Neuroscience
2015, 2017, 2018, 2020 (2), 2021, 2022, 2023	Journal of Voice
2017	LSVT Global Student Small Grants
2016	ASHA Convention Program Committee, Voice and Alaryngeal Communication Track

2015, 2017, 2019, 2022	Journal of Speech, Language, and Hearing Research (1 mentored review)
2014	EURASIP Journal on Audio, Speech, and Music Processing
2013, 2014, 2015, 2023	Journal of the Acoustical Society of America (2 mentored reviews)
2013	Motor Speech Conference Proposals for Oral and Poster Presentations
2013, 2014	Graduate and Professional Student Association Travel Grant Applications, UA
2012, 2013, 2017	American Journal of Speech-Language Pathology
2012-2013	Institutional Review Board Applications for Human Research, SLHS, UA

MEMBERSHIPS

2022-present	Pan American Vocology Association, Full Member
2016-2018	National Postdoctoral Association
2015	Acoustical Society of America
2007-present	American Speech-Language-Hearing Association (ASHA)
2009-present	ASHA Special Interest Group 3 for Voice and Voice Disorders
2014-2015	ASHA Special Interest Group 13 for Swallowing and Swallowing Disorders

PROFESSIONAL CERTIFICATION AND LICENSE

2008-present	Certificate of Clinical Competence in Speech-Language Pathology, American Speech-Language-Hearing Association
2019-present	Texas State License in Speech-Language Pathology, Texas Department of Licensing and Regulation, #115428
2017-2019	Illinois State License in Speech-Language Pathology, Department of Financial and Professional Regulation, Division of Professional Regulation, State of Illinois, #146.01360
2015-2018	Massachusetts State License in Speech-Language Pathology, Board of Speech-Language Pathology and Audiology, Division of Professional Licensure, Commonwealth of Massachusetts, #9713
2009-2016	Arizona State License in Speech-Language Pathology, Arizona Department of Health Services, #SLP6583
2007-2009	Virginia State License in Speech-Language Pathology, Board of Audiology and Speech-Language Pathology, Department of Health Professions, Commonwealth of Virginia, #2202005296
2004-2005	New Mexico State License for Speech-Language Pathology Apprentice, New Mexico Regulation and Licensing Department, #3595

SPECIAL TRAININGS

2019	disABILITY Advocate Instructor Training, UT, Austin, TX
2017	Vital Stim Plus – Neuromuscular Electrical Stimulation and Surface Electromyography Biofeedback Course, Ciao Seminars, Shirley Ryan AbilityLab, Chicago, IL
2014	Lee Silverman Voice Treatment (LSVT) LOUD Training and Certification Course, University of Arizona
2014	Modified Barium Swallow Impairment Profile (MBSImp) Online Student Training
2013	Langmore Foundation Fiberoptic Endoscopic Evaluation of Swallowing (FEES) Course, Department of Otolaryngology – Head and Neck Surgery, Boston University
2008	Lessac-Madsen Resonant Voice Therapy Training, Greater Baltimore Medical Center
2008	Vital Stim Therapy Certification Seminar, Charlotte, NC