**Victoria Sue McKenna, Ph.D., CCC-SLP**

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**EDUCATION**

2018  **Boston University:** Boston, MA

 Ph.D. Speech, Language & Hearing Sciences

2010 **University of New Hampshire:** Durham, NH

 M.S. Communication Sciences and Disorder

2008 **Syracuse University:** Syracuse, NY

 B.S. Communication Sciences and Disorders

B.A. Psychology

**AFFILIATIONS & CERTIFICATIONS**

2022–2025 Emergency Medical Responder, *Michigan State License, #2010558*

2021 National Registered Emergency Medical Responder, #*R1032941*

2019–2022 Speech-Language Pathologist, *Ohio State License, Renewed, #SP.10612*

2018–2023 Speech-Language Pathologist, *Indiana State License*, *#22006938A*

2016–2022 Speech-Language Pathologist, *Massachusetts State License #9786*

2014 Certificate of Clinical & Translational Research, *University of Cincinnati Medical School*

2012–2015 Speech-Language Pathologist, *Ohio State License, #SP.10612*

2011 Certificate of Clinical Competence*, Speech-Language Pathology #12149267*

2011–2022 American Speech-Language Hearing Association, *Member*

2010–2013 Speech-Language Pathologist, *Maine State License, Temp. ST2060, Full SP21312*

**AWARDS & HONORS**

2021– NIH Loan Repayment Program Award: Renewal

2021 Poster Award: Second Place, Boston Speech Motor Control Symposium, *Boston, MA*

2019–2021 NIH Loan Repayment Program Award

2019 Honors of NSSLHA, NSSLHA National Organization

2019 ASHA Lesson’s for Success Program Mentee, *Rockville, MD*

2018–2019 NIH T32 Postdoctoral fellowship, *Purdue University*

2017 ASHA Pathways Program Mentee, *Rockville*, *MD*

2016–2018 NIH T32 Pre-doctoral fellowship, *Boston University*

2016 Best Poster Award of the Voice Foundation Annual Symposium, *Philadelphia, PA*

2015–2016 Provost Fellowship, *Boston University*

2012–2015 University Graduate Scholarship, *University of Cincinnati*

2008–2009 Research Assistantship, *University of New Hampshire*

2008–2009Athletic Scholarship, *University of New Hampshire*

2008 Summa Cum Laude, *Syracuse University*

2004–2008 Athletic Scholarship, *Syracuse University*

2004–2008 Dean’s Scholarship, *Syracuse University*

**ACADEMIC POSITIONS**

2021– **Assistant Professor,** **Secondary Faculty**

 Department of Biomedical Engineering, University of Cincinnati

 Department of Otolaryngology-Head & Neck Surgery, University of Cincinnati

2020–  **Assistant Professor**

 Voice & Swallow Mechanics Lab

Communication Sciences and Disorders, University of Cincinnati

2018–2019 **Postdoctoral Research Fellow**

 Motor Speech Laboratory

Speech, Language, & Hearing Sciences, Purdue University

2015–2018 **Doctoral Research Assistant**

Stepp Lab for Sensorimotor Rehabilitation Engineering

Speech, Language, & Hearing Sciences, Boston University

2012–2015 **Doctoral Research Assistant**

Voice and Swallowing Laboratory

Communication Sciences and Disorders, University of Cincinnati

2008–2009  **Graduate Research Assistant**

Cognitive-Communication Laboratory

Communication Sciences and Disorders, University of New Hampshire

**CLINICAL POSITIONS**

2017–2018  **Speech-Language Pathologist**

Inpatient Setting: ICU, Acute care

Boston Medical Center, Boston, MA

2012–2015  **Speech-Language Pathologist**

In/Outpatient & Long-term Care Settings: ICU, Acute rehab, skilled-nursing, home-health

Rehab Resources, Cincinnati, OH

2010–2012  **Speech-Language Pathologist**

 Long-term care setting: skilled nursing, Alzheimer care unit

RehabCare, Kittery, ME

**PUBLICATIONS** († denotes a student mentee)

18] Reid, K., **McKenna, V.S.,** & Smith, D. (2022). Mitigating dysphonia, pain, and vocal handicap after violent videogame voice overs: A pilot investigation into Vocal Combat TechniqueTM Training. *Journal of Voice*, under review.

17] **McKenna, V.S.,** Gustin, R.L., Hobek, A.L., Howell, R.J., †Dickinson, T.E., †Shanley, S.N., & †Patel, T.H. (2022). Factors influencing treatment attendance for patients seeking gender-affirming voice therapy. *American Journal of Speech-Language Pathology,* under review.

16] †Leon, M., Washington, K., **McKenna, V.S.,** Crowe, K., & Fritz, K. (2022). Linguistically-informed acoustic and perceptual analysis of bilingual children’s speech productions: An exploratory study in the Jamaican context. *Journal of Speech, Language, and Hearing Research*, accepted.

15] **McKenna, V.S.,** †Kendall, C.L., †Patel, T.H.,Howell, R.J., & Gustin, R.L. (2022). Impact of face masks on speech acoustics and vocal effort in healthcare professionals. *The Laryngoscope*, *132*(2), 391-397.

14] **McKenna, V.S.,** Gustin, R.L., Howell, R.J., †Patel, T.H., †Emery, M.B., †Kendall, C.L., & †Kelliher, N.J.(2021). Developing educational health modules to improve vocal wellness in mask-wearing occupational voice users. *Journal of Voice*, in press.

13] **McKenna, V.S.,** †Patel, T.H., †Kendall, C.L., Howell, R.J., & Gustin, R.L. (2021). Voice acoustics and vocal effort in mask-wearing healthcare professionals: A comparison pre- and post-workday. *Journal of Voice,* in press.

12]Vojtech, J.M., Cilento, D.D., Luong, A.T., Noordzij Jr., J.P., Diaz-Cadiz, M., Groll, M.D., Buckley, D.P., **McKenna, V.S.,** Noordzij, J.P., & Stepp, C.E. (2021). Acoustic identification of the voicing boundary during intervocalic offsets and onsets based on vocal fold vibratory measures. *Applied Sciences,* *11*, 1-24.

11] Groll, M.D., **McKenna, V.S.,** Hablani, S., & Stepp, C.E. (2020). Formant-estimated vocal tract length and extrinsic laryngeal muscle activation during modulation of vocal effort in healthy speakers. *Journal of Speech, Language, and Hearing Research, 63*(5), 1395-1403.

10] **McKenna, V.S.,** Hylkema, J.A., Tardif, M.C., & Stepp, C.E. (2020). Voice onset time in individuals with hyperfunctional voice disorders: Evidence for disordered vocal motor control. *Journal of Speech, Language, and Hearing Research, 63*, 405-420.

9] Cler G.J.,**McKenna V.S.,** Dahl, K.L., & Stepp C.E. (2020). Longitudinal case study of transgender voice changes under testosterone hormone therapy. *Journal of Voice*, 34(5), 748-762.

8] **McKenna, V.S.,** & Huber, J.E. (2019). The accuracy of respiratory calibration methods for estimating lung volume during speech breathing: A comparison of four methods across three adult cohorts**.** *Journal of Speech, Language, and Hearing Research, 62,* 2632-2644.

7] Diaz Cadiz, M., **McKenna, V.S.,** Vojtech, J.M., Stepp, C.E. (2019). Adductory vocal fold kinematic trajectories during conventional versus high-speed videoendoscopy. *Journal of Speech, Language, and Hearing Research, 62,* 1685-1706.

6] **McKenna, V.S.,** Diaz-Cadiz, M.E., Shembel, A.C., Enos, N.M., & Stepp, C.E. (2019). The relationship between physiological mechanisms and the self-perception of vocal effort. *Journal of Speech, Language, and Hearing Research, 62*(4),815-834.

5] **McKenna, V.S.,** & Stepp, C.E. (2018). The relationship between acoustical and perceptual measures of vocal effort. *The Journal of the Acoustical Society of America,* *144*(3), 1643-1658.

4] **McKenna, V.S.,** Llico, A.F., Mehta, D.D., Perkell, J.S., & Stepp, C.E. (2017). Magnitude of neck-surface vibration as an estimate of subglottal pressure during modulations of vocal effort and intensity in healthy speakers. *Journal of Speech, Language, and Hearing Research*, *60*(12), 3404-3416.

3] **McKenna, V**., Zhang, B., Haines, M., & Kelchner, L. (2017). A systematic review of isometric lingual strength training programs in adult populations with and without dysphagia. *American Journal of Speech-Language Pathology, 26,* 524-539.

2] Fujiki, R., Chapleau, A., Sundarrajan, A., **McKenna, V.,** and Sivasankar, P. (2017). The interaction of surface hydration and vocal loading on voice measures. *Journal of Voice*, *31*(2), 211-217.

1] **McKenna, V.S.,**Heller Murray, E.S., Lien, Y.S., & Stepp, C.E. (2016). The relationship between relative fundamental frequency and a kinematic estimate of laryngeal stiffness in healthy adults. *Journal of Speech, Language, and Hearing Research,* *59*(6),1283-1294.

**IN PREPARATION** (†denotes a student mentee)

Leon, M., Washington, K.N., **McKenna, V.S.,** Crowe, K., Fritz, K., & Boyce, S.E. “Characterizing Speech Sound Productions in Bilingual Speakers of Jamaican Creole and English: Application of Durational Acoustic Methods.” \*Plan to submit to *Journal of Speech, Language, and Hearing Sciences*, May 2022.

**McKenna, V.S.,** Vojtech, J.M., Previtera, M., †Kendall, C.L., & †Carraro, K.E.“A systematic scoping review of relative fundamental frequency in individuals with and without voice disorders.” \*Plan to submit to *Journal of Applied Sciences,* June 2022.

Kantarcigil, C., **McKenna, V.S.,** O’Dwyer, L., Muhammad, L., & Martin-Harris, B. “A systematic review of swallow and voice in Chronic Obstructive Pulmonary Disease.” \*Plan to submit to *Chest*, Summer 2022.

**McKenna, V.S.**, Gustin, R.L., †Dickinson, T.E., Howell, R.J., & †Shanley, S.N. “Acoustic outcomes in Patients seeking Voice Feminization: Investigation into Articulatory and Spectral Measures.” \*Plan to submit to the *Journal of Voice,* Summer 2022.

Leon, M., Washington, K.N., **McKenna, V.S.,** Crowe, K., Fritz, K., & Boyce, S.E. “Speech Sound Productions of Jamaican Bilingual Preschoolers in English: Application of Acoustic Duration Methods in Typical and Disordered Children.” \*Plan to submit to *Journal of Speech, Language, and Hearing Sciences*, Summer 2022.

**CURRENT RESEARCH**

**The impact of face masks on voice measures in occupational voice users: A pilot study during the initial months of the COVID-19 pandemic (IRB# 2020-0496)**

Role: PI

Status: Closed (1-26-22)

**Developing and Testing Educational Modules to Improve Communication and Voice Outcomes in Mask-Wearing Workers during the COVID-19 Pandemic (IRB# 2020-0889)**

Role: PI

Sub-I: Renee Gustin, M.S., CCC-SLP, UC Health and Rebecca Howell, M.D., UC College of Medicine

Status: Closed (1-26-22)

**Communication function in chronic obstructive pulmonary disease (IRB# 2020-0507)**

Role: PI

Status: Enrolling Subjects

**Sensorimotor function in hyperfunctional voice disorders (IRB# 2020-0333)**

**FDA IND Application (#152398)**

Role: PI

Sub-I: Aaron Friedman, M.D., UC College of Medicine, Rebecca Howell, M.D., UC College of Medicine

Status: Enrolling Subjects

**Nocturnal Cough Monitoring: Developing an app to monitor health outcomes (IRB# 2020-0730)**

Role: PI

Sub-I: Aaron Friedman, M.D., UC College of Medicine, Sudip Vhaduri, Ph.D., Purdue University

Status: Enrolling Subjects

**The effects of vaping on voice and cough function (IRB# 2020-0105-001, Indiana University)**

Role: Co-PI

Co-PI: Rita Patel, Ph.D., CCC-SLP, Indiana University

Status: Enrolling subjects

**Developing smartphone voice acquisition and processing: Preliminary work in comparing voice apps with standardized assessments (IRB# 2021-0724)**

Role: PI

Sub-I: Aaron Friedman, M.D., UC College of Medicine

Status: Enrolling subjects

**The impact of vaping on voice and cough function (IRB# 2021-0994)**

Role: PI

Status: Enrolling subjects

**Investigating voice outcomes in people seeking transgender voice therapy (IRB# 2021-0995)**

Role: PI

Sub-I: Sarah Pickle, M.D., UC College of Medicine, Rebecca Howell, M.D., UC College of Medicine, Amy

Hobek, Ph.D. UC College of Allied Health Sciences, Shanna Stryker, M.D., UC College of Medicine

Status: Approved

**Testing a smartphone app in people with and without voice disorders (IRB# 2022-0250)**

Role: PI

Sub-I: Aaron Friedman, M.D., UC College of Medicine

Status: Under review

**Understanding factors related to vocal congruence and wellness in gender-diverse people (IRB#2022-0358)**

Role: PI

Sub-I: Sarah Pickle, M.D., UC College of Medicine, Shanna Stryker, M.D., UC College of Medicine

Status: Approved

**FUNDING AWARDED**

**Urban Health Pathways Seed Grant 03/28/2022–03/2023**

**Next Lives Here, University of Cincinnati**

The relationship between vocal congruence and wellness in gender-diverse patients:

Gathering evidence to increase access to medical care

Role: PI

The purpose of this grant is to investigate vocal dysphoria and its relationship with mental health.

Status: Ongoing

 $17,000 direct + $0 indirect = $17,000

**Faculty Development Award 11/2021–08/2022**

**College of Allied Health Sciences, University of Cincinnati**

Rigid and Flexible Laryngoscopy Training: Increasing Faculty and Student Capacity for Instruction and Research

Role: Co-I

This grant will support rigid and flexible laryngoscopy training for faculty and students.

Status: Ongoing

 $2605 direct + $0 indirect = $2605

**Advancing Academic-Research Career (AARC) Award 08/16/2021–2/28/2023**

Advancing Culturally Responsive Practices in the Speech Sciences

Role: PI

Mentors: Karla N. Washington, Suzanne Boyce

The goal of this award is to support academic and research career advancement of junior scientists. The research aim is to develop culturally responsive practices in the acoustic analysis of bilingual children’s speech. The academic aim is to develop a culturally inclusive, case-based, flipped speech science course with the goal of helping CSD students link fundamental scientific concepts to clinical situations.

Status: Ongoing

 $5000 direct + $0 indirect = $5000

**Faculty Development Award 05/10/2021–08/14/2021**

**College of Allied Health Sciences, University of Cincinnati**

Emergency Medical Response Training: Increasing Independence for Flexible Laryngoscopy Research

Role: PI

This grant will support medical training to ensure participant safety during flexible laryngoscopy procedures.

Status: Completed

 $785 direct + $0 indirect = $785

**University Research Council (URC) Faculty Scholars Award 04/01/2021–03/31/2023**

**Office of Research, University of Cincinnati**

Developing a Voice Monitoring App for Chronic Voice Disorders

Role: PI

This grant aims to develop a vocal health monitoring appt that collects information on voice acoustics and vocal symptoms to share with care providers and provide biofeedback for patients.

Status: Ongoing

$24,000 direct + $0 indirect = $24,000

**New Investigators Research Grant 12/01/2020–12/31/2021**

**American Speech-Language-Hearing Foundation**

Sensorimotor reflexes in hyperfunctional voice disorders

Role: PI

This grant investigates chemosensory and mechanosensory reflexive laryngeal responses via elicitation of the reflexive cough and laryngeal adductory responses in those with and without voice disorders.

Status: Completed

$10,000 direct + $0 indirect = $10,000

**CCTST COVID-19 Critical Community Challenge Grant 07/15/2020–03/31/2021**

**National Center for Translational Sciences: 2UL1TR001425-05A1**

Phase 1: The impact of masks on speech acoustics and voice fatigue in healthcare workers: A pilot study during the COVID-19 pandemic

Phase 2: Developing educational videos to improve communication and vocal health among mask-wearing healthcare workers

Phase 3: Promoting vocal wellness in mask-wearing community workers: A community outreach initiative

Phase 4: Behavioral and Acoustic Changes following Vocal Education: An assessment of how online tutorials improve communication patterns in mask-wearing healthcare workers

Role: PI

The aims of this grant were to i) evaluate the impact of face masks on speech acoustics and vocal fatigue in healthcare workers, ii) develop and disseminate free educational modules to address the identified communication and voice problems, and iii) understand the impact of educational modules on health behaviors in mask-wearing community workers.

Status: Completed

 $31,228.00 direct + $0 indirect = $31,228.00

**Dudley Allen Research Fund****06/01/2016–1/31/2017**

**Sargent College, Boston University**

Physiological mechanisms of vocal effort

Role: PI

The aim of this grant was to investigate vocal effort using multiple simultaneous instrumental assessments, including high-speed videoendoscopy, surface electromyography, and neck-surface acceleration.

Status: Completed

$5000 direct + $0 indirect = $5000

**University Research Council Graduate Student Fellowship****05/01/2014–07/31/2014**

**Office of Research, University of Cincinnati**

Developing a biophysical marker for swallowing stability in children

Role: PI

The purpose of this study was to gather normative data on the respiratory-swallowing patterns of healthy children ages 4-11 years and examine maturation of the respiratory-swallow coordinative system.

Status: Completed

 $3000 direct + $0 indirect = $3000

**FUNDING APPLICATIONS (submitted, not awarded)**

**NIH Early Career Research Award (R21)** 2022

Laryngeal reflexive motor responses in adults with vocal hyperfunction

Role: PI

Status: Under Review

**CCTST Research Scholars Career Development Program (KL2)** 2021

Characterizing transgender voice: More than just vocal pitch

Role: PI

Status: Not Awarded

**NIH Early Career Research Award (R21)** 2020

The impact of vaping on voice and cough function

Role: PI

Status: Not Awarded

**NIH Pathway to Independence Award (K99/R00)** 2019

Understanding and addressing communication deficits in people with

Chronic Obstructive Pulmonary Disease (COPD)

Role: PI

Status: Not Awarded

**NIH Ruth L. Kirschstein NRSA Individual Predoctoral Fellowship (F31)** 2016

Physiological mechanisms of vocal effort in hyperfunctional voice disorders

Role: Predoctoral Trainee

Status: Not Awarded

**TEACHING**

**Lead Professor**

*Dysphagia*; UC On-campus: Graduate, 4 credits, 47 students Spring 2022

*Neurogenic Cog. Disorders;* UC Distance, TTI: Graduate, 2 credits, 38 students Spring 2022

*Research Methods*; UC On-campus: Undergraduate, 3 credits, 30 students Spring 2022

*Voice Disorders*; UC Distance Learning, TTI: Graduate, 2 credits, 38 students Fall 2021

*Dysphagia*; UC On-campus: Graduate, 4 credits, 50 students Spring 2021

*Voice Disorders*; UC On-campus: Graduate, 2 credits, 54 studentsSpring 2021

Dysphagia; UC On-campus: Graduate, 4 credits, 44 students Spring 2020

*Voice Disorders*; UC On-campus: Graduate, 2 credits, 44 students Spring 2020

*Voice Disorders*; Purdue University On-campus: Graduate, 2 credits, 29 studentsSpring 2019

**Lectures**

“Gender Diverse Healthcare: Providing Compliant and Competent Care,” Spring 2022

 Capstone Process, Graduate, University of Cincinnati

“Exploring Research Careers”, Exploratory CSD, Undergraduate, *Purdue University* Fall 2019

“Voice Disorders,” Introduction to CSD, Undergraduate*, Purdue University* Fall2019

**Teaching Assistant**

Anatomy and Physiology: Undergraduate, *University of Cincinnati* Fall 2014

Included lecture and cadaver dissection lab

Dysphagia: Graduate, *University of Cincinnati* Spring 2015

Neurogenic Cognitive Disorders: Graduate, *University of Cincinnati* Fall 2013

Dysphagia: Graduate, *University of Cincinnati* Spring 2013

**INVITED REVIEWED PRESENTATIONS** (\*VM as presenting author, not peer reviewed)

**\*McKenna, V.S.** (2022). “Gender-Affirming Voice Care: Improving Therapeutic Targets and Treatment Access.” TransForming Healthcare: Equity and Access for Transgender Health, Cincinnati, OH.

Gustin, R.L., **\*McKenna, V.S.**, Stryker, S., & Howell, R.J. (2022). “Gender Diverse Healthcare: Providing Compliant and Competent Care.” UC Health Laryngology Grant Rounds, University of Cincinnati, Cincinnati, OH.

**\*McKenna, V.S.** & Gustin, R.L. (2021). “Voice 101: Voice care for Professional Voice Users.” *Colleague Development Days,* University of Detroit Mercy, Detroit, Michigan*.*

**\*McKenna, V.S.** & Gustin, R.L. (2021). “Masks and Vocal Health: Strategies for Mask-wearing workers.” Ohio Society for Respiratory Care Annual Meeting and Conference, Columbus, Ohio.

Kantarcigil, C., \***McKenna, V.S.,** & Graham, K. (2021). “Swallowing and Voice Disorders in Patients with Chronic Obstructive Pulmonary Disease.” Interdisciplinary Voice and Swallowing Grand Rounds. Northwestern University, Evanston, IL.

**\*McKenna, V.S.** (2021). “Masks and vocal health, Part I: The impact of masks on communication.” World Voice Day, Cincinnati, OH. Link: https://www.youtube.com/watch?v=qkUO14uCNOQ. Timepoints: 35:04 - 41:47.

**\*McKenna, V.S.** (2021).“Improving vocal health and communication in mask-wearing community workers during the COVID-19 Pandemic.” Center for Clinical and Translational Research and Training Grand Rounds. Cincinnati, OH.

**\*McKenna, V.S.,** Diaz-Cadiz, M.E., Shembel, A.C., Enos, N.M., & Stepp, C.E. (2018). “The Relationship between Physiological Mechanisms and the Self-perception of Vocal Effort,”11th International Conference of Voice Physiology and Biomechanics, East Lansing, MI.

**\*McKenna, V.S.** (2017). “Acoustic Analysis of Voice.” The Fall Voice Conference. Washington, DC.

**ORAL and POSTER PRESENTATIONS** (\* = presenting author; † = student/mentee, § = senior author)

50] Ling, C., **McKenna, V.S.,** Llico, A.F., & Patel, R. (2022). “Effects of daily electronic cigarette use on the vocal mechanism: A multimodality investigation.” American Speech-Language and Hearing Association Convention, New Orleans, LA. [Poster Presentation]. *Submitted.*

49] †Fletcher, B., Berns, M., **McKenna, V.S.,** Vannest, J., & Washington, K.N. (2022). “Fricative production in typical and disordered speakers: Acoustic analysis of Jamaican Preschooler’s Speech Productions.” American Speech-Language and Hearing Association Convention, New Orleans, LA. [Poster Presentation]. *Submitted.*

48] †Leon, M., Washington, K., **McKenna, V.S.,** Crowe, K., Fritz, K., & Boyce, S. (2022). “Acoustic Duration Speech Patterns in Jamaican-Creole Bilingual Preschoolers.” American Speech-Language and Hearing Association Convention, New Orleans, LA. [Oral Presentation]. *Submitted.*

47] †Leon, M., Washington, K., **McKenna, V.S.,** Crowe, K., & Fritz, K. (2022). “Culturally and Linguistically-Informed Acoustic and Perceptual Analysis of Jamaican Bilingual Children’s Speech Productions.” American Speech-Language and Hearing Association Convention, New Orleans, LA. [Oral Presentation]. *Submitted.*

46] \***McKenna, V.S.,** Llico, A.F., & Howell, R.J. (2022). “Vocal fold kinematics for volitional and reflexive cough in healthy adults using high-speed flexible laryngoscopy.” American Speech-Language and Hearing Association Convention, New Orleans, LA. [Oral Presentation]. *Submitted.*

45] \***McKenna, V.S.,** Llico, A.F., Friedman, A.D., & Shanley, S.N. (2022).“Smartphone voice acoustic acquisition and processing considerations for people with and without dysphonia.” American Speech-Language and Hearing Association Convention, New Orleans, LA. [Oral Presentation]. *Submitted.*

44]Dixon, P.H., Humpert, L.J, & **McKenna, V.S.** (2022). “Monitoring chronic cough in patients at night: A pilot study on smartphone app usability.” Undergraduate Scholarly Showcase, University of Cincinnati, Cincinnati, OH*.*[Oral Presentation].

43] †Roberts, R., †Panstares, J., †Carraro, K.E., §**McKenna, V.S.** (2022). “VoMo: Voice Monitoring App for Smartphones.” Undergraduate Scholarly Showcase, University of Cincinnati, Cincinnati, OH. [Oral Presentation].

42] †Meriwether, J., †Wesley, S., **McKenna, V.S.**, & Welden, K. (2022). “Use of pharyngeal high-resolution manometry (pHRM) in dysphagia treatment.” PraIse Conference, University of Cincinnati, Cincinnati, OH. [Poster Presentation].

41] †Humpert, L.J., †Fletcher, B.N., Friedman, A.D., Vhaduri, S., & **McKenna, V.S.** (2022).“Perceptions of health monitoring through smartphone technology: A pilot study in patients with chronic cough.” 51st Annual Voice Foundation, Philadelphia, PA, [Poster Presentation]. *Accepted.*

40]†Carraro, K.E.,†Kendall, C.L., Previtera, M., Vojtech, J.M., &§**McKenna, V.S.** (2022).“A scoping literature review of relative fundamental frequency in individuals with and without voice disorders.” 51st Annual Voice Foundation, Philadelphia, PA. [Poster Presentation]. *Accepted*.

39] Gustin, R.L., †Dickinson, T.E., †Shanley, S.N., Howell, R.J., Hobek, A.L., †Patel, T.H., & §**McKenna, V.S.** (2022). “Acoustic outcomes in Patients seeking Voice Feminization: Investigation into Articulatory and Spectral Measures.” 51st Annual Voice Foundation, Philadelphia, PA. [Oral Presentation]. *Accepted*.

38] **McKenna, V.S.,** Gustin, R.L., Hobek, A.L., Howell, R.J., †Dickinson, T., †Shanley, S.,& †Patel, T.H. (2021). “Treatment attendance for Gender Affirming Voice Therapy: A retrospective analysis of treatment trends before and during the COVID-19 pandemic.” Fall Voice Conference, Miami, FL. [Poster Presentation].

37] Kantarcigil, C., \***McKenna, V.S.,** Graham, K., Larsen, K., O’Dwyer, L.C., Muhammad, L., & Martin-Harris, B. (2021). “Swallow and voice function in patients with Chronic Obstructive Pulmonary Disease: Systematic literature review and case study examples.” American Speech-Language and Hearing Association Convention, Washington, DC. [1-hr Oral Seminar].

36] †Kendall, C.L., †Patel, T.H., & §**McKenna, V.S.** (2021). “The impact of face masks on speech and voice acoustics in healthcare professionals.” Boston Speech Motor Control Symposium, Boston, MA*.* [Poster Presentation].

35] †Patel, T.H., †Kendall, C.L., & §**McKenna, V.S.** (2021). “Voice Acoustics and Vocal Effort in Mask-wearing Healthcare Professionals.” Boston Speech Motor Control Symposium, Boston, MA. [Poster Presentation].

***\*\*Awarded Best Poster: Second Place***

34] **\*McKenna, V.S.,** Gustin, R.L., †Patel, T.H., †Emery, M.B., †Kendall, C.L., †Kelliher, N.J., & Howell, R.J. (2021). “Developing Educational Health Modules to Improve Vocal Wellness in Mask-wearing Occupational Voice Users.” 50th Annual Voice Foundation Symposium, Philadelphia, PA. [Oral Presentation].

33] †Carraro, K.E., †Humpert, L.N., & §**McKenna, V.S.** (2021). “Improving Vocal Health in mask-wearing community workers.” Undergraduate Scholarly Showcase, Cincinnati, OH. [Oral Presentation].

Link: <https://www.youtube.com/watch?v=5OwB5XVpo0c>

***\*\*Awarded “Excellence in Communication”***

32] Kantarcigil, C., **McKenna, V.S.,** O’Dwyer, L.C., Muhammad, L., & Martin-Harris, B. (2021). “Swallowing Disorders in Patients with Chronic Obstructive Pulmonary Disease: A Systematic Review and Meta-Analysis.” Dysphagia Research Society, [Poster Presentation].

31] Kantarcigil, C., \***McKenna, V.S.,** Graham, K., Larsen, K., & Martin-Harris, B. (2021). “Swallow and Voice Disorders in Chronic Obstructive Pulmonary Disease.” Illinois Speech-Language and Hearing Association Conference, Rosemont, IL. [Technical Session].

30] Groll, M.D., **McKenna, V.S.,** Hablani, S., & Stepp, C.E. (2021). “Formant-estimated vocal tract length and extrinsic laryngeal muscle activation during modulation of vocal effort in healthy speakers.” International Seminar in Speech Production, Providence, RI. [Poster Presentation].

29] Kantarcigil, C., **\*McKenna, V.S.,** O’Dwyer, L., & Martin-Harris, B. (2020). “A systematic review of swallow and voice function in Chronic Obstructive Pulmonary Disease.” American Speech-Language and Hearing Association Convention, San Diego, CA. [Technical Research Session]*. \*Conference cancelled due to COVID-19 pandemic.*

28] **\*McKenna, V.S.** (2019). “Voice disorders in women: prevalence and risk factors contributing to reported voice problems.” Women’s Health Symposium, West Lafayette, IN. [Poster Presentation].

27] **\*McKenna, V.S.,** Alvar, A.M., Zañartu, M., Malandraki, G.A., & Huber, J.E. (2019). “Neck-surface accelerometry in voice and swallowing research.” Mi-Bio Summit on Flexible and Stretchable Bioelectronics, West Lafayette, IN. [Poster Presentation].

26] **\*McKenna, V.S.,** & Huber, J.E. (2019). “The accuracy of respiratory calibration methods for estimating lung volume during speech breathing: A comparison of four methods across three adult cohorts**.”** Boston Speech Motor Control Symposium, Boston, MA. [Poster Presentation].

25] Dahl, K.L., Cler, G.J., **McKenna, V.S.,** & Stepp, C.E. (2019). “Effects of vocal changes under testosterone therapy on listener perception of gender: A transgender case study.” 13th International Conference on Advances in Quantitative Laryngology, Voice and Speech Research, Montreal, QC, Canada. [Oral Presentation].

24] **\*McKenna, V.S.,** & Stepp, C.E. (2019). “The relationship between acoustical and perceptual measures of vocal effort.” 48th Annual Voice Foundation Symposium, Philadelphia, PA. [Poster Presentation].

23] **\*McKenna, V.S.,** & Huber, J.E. (2019). “The accuracy of respiratory calibration methods for estimating lung volume during speech breathing: A comparison of four methods across three adult cohorts**.”** CEREBRAL Symposium, West Lafayette, IN. [Poster Presentation].

22] Hylkema, J., **McKenna, V.S.,** & Stepp, C.E. (2018). “Voice Onset Time in Individuals with Hyperfunctional Voice Disorders.” American Speech-Language and Hearing Association Convention, Boston, MA. [Poster Presentation].

21] Diaz-Cadiz, M.E., **McKenna, V.S.,** & Stepp, C.E. (2018). “Adductory Vocal Fold Kinematic Trajectories during Conventional Speed vs. High-Speed Videoendoscopy.” 11th International Conference of Voice Physiology and Biomechanics, East Lansing, MI. [Poster Presentation].

20] Cler G.J.,**McKenna V.S.,** & Stepp C.E. (2018). “Longitudinal Case Study of Transgender Voice Changes under Testosterone Hormone Therapy,” Voice Foundation 47th Annual Symposium: Care of the Professional Voice, Philadelphia, PA. [Oral Presentation].

19] **\*McKenna, V.S.,** Diaz-Cadiz, M.E., Shembel, A.C., Enos, N.M., & Stepp, C.E. (2018). “The Relationship between Physiological Mechanisms and the Self-perception of Vocal Effort” Boston University Data Science, Boston, MA. [Poster Presentation].

18] **\*McKenna, V.**, Llico, A., Mehta, D., Perkell, J., & Stepp, C. (2017). “Neck-Surface Acceleration as an Estimate of Subglottal Pressure during Modulation of Vocal Effort and Intensity in Healthy Speakers.” Communication Sciences and Disorders Research Day, Boston, MA. [Oral Presentation].

17] **\*McKenna, V.**, Llico, A., Mehta, D., Perkell, J., & Stepp, C. (2017). “Neck-Surface Acceleration as an Estimate of Subglottal Pressure during Modulation of Vocal Effort and Intensity in Healthy Speakers.” Boston Speech Motor Control Symposium, Boston, MA. [Poster Session].

16] **\*McKenna, V.**, Llico, A., Mehta, D., Perkell, J., & Stepp, C. (2017). “Neck-Surface Acceleration as an Estimate of Subglottal Pressure during Modulation of Vocal Effort and Intensity in Healthy Speakers.” 5th Occupational Voice Symposium, London, GB. [Oral Presentation].

15] **\*McKenna, V.**, Llico, A., Mehta, D., & Stepp, C. (2016). “Neck-Surface Acceleration as an Estimate of Subglottal Pressure during Modulated Vocal Effort in Healthy Speakers.” American Speech-Language and Hearing Association Convention, Philadelphia, PA. [Technical Research Session].

14] **\*McKenna, V.**, Heller Murray, E., Lien, Y., & Stepp, C. (2016). “Acoustic and Kinematic Estimates of Laryngeal Stiffness.” The Boston Speech Motor Control Working Group, Boston, MA. [Oral Presentation].

13] **\*McKenna, V.**, Heller Murray, E., Lien, Y., & Stepp, C. (2016). “The Relationship between Relative Fundamental Frequency and a Kinematic Estimate of Laryngeal Stiffness in Healthy Adults.” 45th Annual Voice Foundation Symposium, Philadelphia, PA. [Poster Presentation].

 ***\*\*Awarded Best Poster of Annual Symposium, 2016***

12] **McKenna, V.**, Heller Murray, E., Lien, Y., & Stepp, C. “Acoustic and Kinematic Estimates of Laryngeal Stiffness.” 171st Meeting of the Acoustical Society of America, Salt Lake City, UT. [Published Abstract].

11] **McKenna, V**., Zhang, B., Haines, M., & Kelchner, L. (2016). “A Systematic Review of Isometric Lingual Strength Training Programs in Adult Populations with and without Dysphagia.” PraIse Conference, Cincinnati, OH. [Poster Presentation].

10] **\*McKenna, V**., Zhang, B., Haines, M., & Kelchner, L. (2015). “A Systematic Review of Isometric Lingual Strength Training Programs in Adult Populations with and without Dysphagia.” American Speech-Language and Hearing Association Convention, Denver, CO. [Technical Research Session].

9] Buzek, M., Thompson, J., **McKenna, V.,** & Kelchner, L. (2015). **“**The Coordination of Breathing and Swallowing in Healthy Subjects Across Seven Decades.” PraIse Conference, Cincinnati, OH. [Poster Presentation].

8] Kluener, L.,Greaves, K., **McKenna, V.,** & Kelchner, L. (2015).  **“**Inter and Intra-rater Reliability in Respiratory-Swallow Measures in Healthy Adults.” PraIse Conference, Cincinnati, OH. [Poster Presentation].

7] Mason, H., **McKenna, V.,** & Kelchner, L. (2015). “Swallow Non-Inspiratory Flow in Healthy Children: A Comparison Across Three Bolus Consistencies.” PraIse Conference, Cincinnati, OH. [Poster Presentation].

6] **\*McKenna, V.,** Miller, C., & Kelchner, L. (2014). **“**The Stability of the Coordination of Breathing and Swallowing in Healthy Children Ages 4-11.” American Speech-Language and Hearing Association Convention, Orlando, FL. [Poster Presentation].

5] Schweiterman, E., Smith, D., Haines, M., **McKenna, V**., & Kelchner, L. (2014). “The Effect of Bolus Consistency on Anterior and Posterior Lingual Pressures in Healthy Adults.” PraIse Conference, Cincinnati, OH. [Poster Presentation].

4] **\*McKenna, V.**, Kelchner, L., & Maile, D. (2013). “Variation in Respiratory-Swallowing Coordination Patterns in Healthy Adults.” American Speech-Language and Hearing Association Convention, Chicago, IL. [Poster Presentation].

3] Haines, M., Miller, C., **McKenna, V.,** & Kelchner, L. (2013). “Breathing-Swallowing Coordination Activity in Young Children: Reliability Measurement.” 22nd Annual National Ronald E. McNair Research Conference and Graduate Fair, Lake Geneva, WI. [Poster Presentation].

2] Hooper, J., Oliverio, M., Maile, D., Kelchner, L., & **McKenna, V.** (2013). “The Relationship of Lingual Pressure, Swallow Acoustics and Apneic Pause During Swallowing in Healthy Adults: Duration of Apneic Pause in Healthy Adults Across Different Bolus Consistencies.” PraIse Conference, Cincinnati, OH. [Poster Presentation].

1] Niner, R., Anglin, S., Maile, D., **McKenna, V.**, & Kelchner, L. (2013). “Lingual Pressures in Women Across the Lifespan.” PraIse Conference, Cincinnati, OH. [Poster Presentation].

**RESEARCH MENTORSHIP and STUDENT AWARDS**

Thesis/Dissertation Committees

Michelle Leon, Doctoral dissertation committee, *University of Cincinnati* 2020–

Jennifer Hylkema, Master thesis committee, *Boston University* 2016–2018

Academic Committees

Brittany Fletcher, Doctoral committee, *University of Cincinnati* 2020–

 *University Research Council Grant Awardee, $3000, Summer 2022*

Dalia Abdulkader, Doctoral committee, *University of Cincinnati* 2020–

 *University Research Council Grant Awardee, $3000, Summer 2021*

Graduate Students

Anna Birkemeier, Primary research mentor, CSD, *University of Cincinnati*  2021–

Kelly Carraro, Primary research mentor, CSD, *University of Cincinnati*  2021–

Haley Doerr, Primary research mentor, University of Cincinnati 2021–

Elizabeth Mackley, Primary research mentor, CSD, *University of Cincinnati*  2021–

Sam Wesley, Graduate Capstone mentor, *University of Cincinnati*  2021–

Jacqueline Meriwether, Graduate Capstone mentor, *University of Cincinnati* 2021–

Nicholas Kelliher, Primary research mentor, *University of Cincinnati* 2020–2021

Mariah Emery, Graduate Capstone mentor, *University of Cincinnati* 2020–2021

 *Graduate Student Government Research Awardee, $1000, Spring 2021*

Tulsi Patel, Graduate Capstone mentor, *University of Cincinnati* 2020–2021

 *Graduate Student Government Research Awardee, $1500, Spring 2021*

 *Best Poster: Second place, Boston Speech Motor Control Symposium, 2021*

Courtney Kendall, Graduate Capstone mentor, *University of Cincinnati* 2020–2021

 *Best Poster: Second place, Boston Speech Motor Control Symposium, 2021*

Adrianna Shembel, Laryngoscopy competency for research, *Boston University* 2017

Undergraduate Students

Mary Wilkens, UPRISE program Mentor, *University of Cincinnati* 2022–

Min Bamford, Co-Op Co-mentor, *University of Cincinnati* 2022–

Neil McGrogen, Primary research mentor, *University of Cincinnati*  2022–

Paige Dixon, Senior Capstone mentor, *University of Cincinnati* 2021–

Julie Panstares, Senior Capstone mentor, *University of Cincinnati* 2021–

Rachel Roberts, Senior Capstone mentor, *University of Cincinnati* 2021–

Savannah Shanley, Co-mentor, CSD, *University of Cincinnati* 2021–

Aleksandar Gjurovikj, Co-Op Co-mentor, University of Cincinnati 2021

 *Undergraduate Research Co-Op Fellowship Awardee, Spring 2021*

Rachel Fiedler, Senior Capstone mentor, *University of Cincinnati* 2021

Hannah Newman, Primary research mentor, Computer Eng., *University of Cincinnati* 2021

Kelly Carraro, Senior Capstone mentor, *University of Cincinnati* 2020–2021

 *Showcase Presentation Award: Excellence in Communication, 2021*

Lauren Humpert, Senior Capstone mentor, *University of Cincinnati* 2020–2021

*Showcase Presentation Award: Excellence in Communication, 2021*

Tara Dickinson, Distance Scholar mentor, *Case Western University* 2020–

 *Summer Undergraduate Research Fellowship Awardee, COM, Summer 2021*

Nicole Enos, Graduate Supervisor, *Boston University* 2017–2018

Morgan Haines, Senior Capstone Committee, *University of Cincinnati* 2015–2016

Haley Mason, Senior Capstone Committee, *University of Cincinnati* 2014–2015

Leah Baccus, Primary research mentor, *University of Cincinnati*  2014

*Summer Undergraduate Mentored Research Program Awardee, Summer 2014*

**SERVICE**

Professional Service

Editorial Board, Journal of Voice 2022–

Ad-hoc Reviewer, Journal of Speech, Language, and Hearing Science, 2018–

Journal of Voice, Journal of Communication Disorders, Dysphagia,

Journal of Logopedics Phoniatrics Vocology, Canadian Journal of Speech-

Language Pathology and Audiology, Scientific Review

Organizing Committee, Boston Speech Motor Control Mini-Symposium2017

Service to ASHA

Speech and Language Science Convention Committee, *ASHA Convention* 2021–

Editorial Committee, American Journal of Speech-Language Pathology 2020–

Editorial Committee, ASHA Perspectives, SIG 19: Speech Science 2018–

Voice and Alaryngeal Communication Convention Committee, *ASHA Convention* 2016–2017

University Service: University of Cincinnati

Diversity Committee Member, Research Sub-Committee, CSD Dept. 2021–

Ad-hoc IRB Reviewer, University level 2021–

CEU Administrator, CSD Dept. 2020–

University Research Council Grant Review, CSD Dept. Internal Committee 2020–

Undergraduate Research Council Grant Review Committee, University level 2014–2015

Graduate Student Case-Study Exam Moderator, CSD Dept.2013–2015

Invited Talks for Student Groups

“Early Career Scientists”, Engineering Group, *Stevens Institute of Technology* Spring 2022

“Deciding on a Research Career”, NSSLHA, *University of Cincinnati* Spring 2020

“Getting a CFY”, NSSLHA, *Purdue University* Fall 2018

**CLINICAL INTERNSHIPS**

2010  **Kindred Hospital: Natick, MA**

*Intern Speech-Language Pathologist*

* Long-term acute care with complex tracheostomy and ventilator dependent patients
* Skilled in blue die testing, passy muir valve placement, and complex airway patients

2010  **MassTex Imaging: Danvers, MA**

*Intern Speech-Language Pathologist*

* Performed modified barium swallow study exams

2010 **Exeter Hospital: Exeter, NH**

*Intern Speech-Language Pathologist*

* Acute-care clinician with focus on dysphagia and aphasia evaluations

2009  **New Hampshire Feeding and Swallowing Team: Bedford, NH**

*Intern Speech-Language Pathologist*

* In-home evaluations and therapy for pediatric feeding and swallowing clients
* Team approach to dysphagia intervention with dieticians, occupational therapists, and social workers

**ADDITIONAL WORK EXPERIENCE**

2012–2015  **University of Cincinnati Athletic Department: Cincinnati, OH**

*Head Diving Coach*

* Responsible for coaching, scheduling, recruiting, running competitions, implementing safety protocols, increasing team communication and relations, and communicating with parents
* Developed and integrated platform training and competition into program
* Coached athlete inducted into the “Legion of Excellence” in 2014

2009–2012  **University of New Hampshire Athletic Department: Durham, NH**

*Head Diving Coach*

* “Women’s Swimming and Diving Coaching Staff of the Year” Award, 2010–2012 for the America East Athletic Conference
* Coached Women’s Conference Finalists 2010–2012

2009–2011  **Charles River Diving- North: Durham, NH**

*Head Diving Coach*

* Responsible for coaching and management of youth diving team (ages 7–18)
* Coached six New Hampshire Div I/II Boys and Girls State Diving Champions