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

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**EDUCATION & TRAINING**

2019 **Purdue University:** West Lafayette, IN

 Postdoctoral Fellowship

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**

2022–2024 Emergency Medical Responder, *Ohio Certification, #190602*

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

2021 National Registered Emergency Medical Responder, #*R1032941*

2019–2024 Speech-Language Pathologist, *Ohio State License, Renewed, #SP.10612*

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

2016–2024 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*

2011–2025 American Speech-Language Hearing Association (ASHA), *Member*

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

**AWARDS & HONORS**

2022 ASHA Early Career Contributions in Research Award

2021–2022 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 Predoctoral 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**

 Biomedical Engineering, University of Cincinnati

 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**

2023–  **Speech-Language Pathologist, PRN**

Acute care; Home-health care

Rehab Resources, Cincinnati, OH

2017–2018  **Speech-Language Pathologist, PRN**

Inpatient Setting: ICU, Acute care

Boston Medical Center, Boston, MA

2012–2015  **Speech-Language Pathologist, PRN**

In/Outpatient & Long-term Care Settings: ICU, Acute rehab, Skilled-nursing

Rehab Resources, Cincinnati, OH

2010–2012  **Speech-Language Pathologist**

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

RehabCare, Kittery, ME

**PUBLICATIONS** († = mentee; § = senior author)

30] †Mira, A.S., †Goldsberry, L.J., Previtera, M.J., Simmons, A.K., & §**McKenna, V.S**. (2024). A scoping review on the intersection between voice and swallowing measures in healthy and disordered populations. American Journal of Speech-Language Pathology, *submitted.*

29] †Fletcher, B.N., †Humpert, L.J., Friedman, A.D., Vhaduri, S., & §**McKenna, V.S.** (2023). A pilot study toward acoustic monitoring of nocturnal chronic cough using smartphone technology. Perspectives (SIG03), *submitted*.

28] †Dubey, I., Stryker, S.D., Madzia, J.L., Pickle, S., Dion, G.R., & §**McKenna, V.S.** (2023). Insurance coverage of gender-affirming laryngological services: An in-depth analysis in a midwestern U.S. state. Perspectives (SIG03), *accepted.*

27] Cai, J., Wang, R., Zhao, D., Yuan, Z., **McKenna, V.,** Friedman, A., Boente, R., Storey, S., & Vhaduri, S. (2023). AuD-Former: A hierarchical transformer network for multimodal audio-based disease prediction. IEEE Transactions on Audio, Speech and Language Processing, *submitted*.

26] Howell, R.J., †Mira, A.S., †Llico, A.F., & **McKenna, V.S.** (2023). Laryngeal high-speed videoendoscopy provides a means to analyze laryngeal closure parameters during normal swallows. Triological Thesis in the division of Technology/Procedural Development, *accepted.*

25] †Madzia, J.L., Stryker, S., †Bamford, L.M., Pickle, S., & §**McKenna, V.S.** (2023). Gender-diverse patients’ awareness and utilization of gender-affirming laryngological services. Annals of Otology, Rhinology, and Laryngology, *in press*.

24] †Mira, A.S., †Wilkens, M.E., Washington, K.N., & §**McKenna, V.S.** (2023). Phonemic and pitch variability in bilingual preschoolers: A comparison of Jamaican Creole and English. International Journal of Speech-Language Pathology, *in press.*

23] †Llico, A.F., †Shanley, S.N., Friedman, A.D., †Bamford, L.M., †Roberts, R.M., & §**McKenna, V.S.** (2023). A comparison between custom smartphone acoustic processing algorithms and Praat in healthy and disordered voices. Journal of Voice, *in press.*

22] Reid, K., **McKenna, V.S.**, Lee, A., Giliberto, J.P., & Smith, D. (2023). Reducing vocal fatigue while preserving realism during video game voice overs using the vocal combat technique: A randomized controlled trial. Journal of Voice*, in press.*

21] **McKenna, V.S.,** †Roberts, R.M., Friedman, A.D., †Shanley, S.N., & †Llico, A.F. (2023). Impact of naturalistic smartphone positioning on acoustic measures of voice. *Journal of Acoustical Society of America, 154*(1), 323-333.

20] †Leon, M., Washington, K.N., **McKenna, V.S.,** Crowe, K., Fritz, K., & Boyce, S.E. (2023). Characterizing speech sound productions in bilingual speakers of Jamaican Creole and English: Application of durational acoustic methods. *Journal of Speech, Language, and Hearing Research,* *66*(1), 61-83.

19] **McKenna, V.S.,** Gustin, R.L., Hobek, A.L., Howell, R.J., †Dickinson, T.E., †Shanley, S.N., & †Patel, T.H. (2023). Factors related to treatment attendance for patients seeking gender-affirming voice therapy. *American Journal of Speech-Language Pathology,* *32*(1), 216-233.

18] **McKenna, V.S.,** Vojtech, J.M., Previtera, M., †Kendall, C.L., & †Carraro, K.E. (2022). A scoping literature review of relative fundamental frequency (RFF) in individuals with and without voice disorders. *Applied Sciences, 12*(16), 1-18.

17] 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 Technique Training. *Journal of Voice*, in press.

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*, *65*(7), 2490-2509.

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** († = mentee, § = senior author)

**McKenna, V.S.,** †Ling, C., †Llico, A.F., & Patel, R. “Effects of daily electronic cigarette use on laryngeal and respiratory kinematics in young adults.” Planned submission to the *Journal of Speech, Language, and Hearing Research*, Spring 2024.

Stryker, S.D., †Dubey, I., Madzia, J.L., Pickle, S., Dion, G., & **McKenna, V.S**. “Vocal congruence and safety: The medical necessity of gender-affirming vocal therapy.” Planned submission to the *International Journal of Transgender Health*, Spring 2024.

**McKenna, V.S.,** Fletcher, B.N., Hobek, A.L., Leon, M., & †Shanley, S.N. “Culturally inclusive course material for the Speech Sciences: Evaluation of an undergraduate speech science course with diversity emphasis.” Planned submission to *SIG 14: Cultural and Linguistic Diversity Perspectives,* Spring 2024.

**McKenna, V.S**., †Llico, A.F., & Howell, R.J. “Vocal fold kinematics for volitional and reflexive cough in healthy adults using high-speed flexible laryngoscopy.” Planned submission to the *Journal of Speech, Language, and Hearing Research*, Spring 2024.

**McKenna, V.S.**, Vojtech, J.M., †Doerr, H.N., & †Mazloum, S.A. “Acoustic and laryngoscopic investigation into laryngeal tension in patients with unilateral vocal fold immobility.” Planned submission to *Journal of Speech, Language, and Hearing Research*, Spring 2024.

†Fletcher, B.N., †Gohbli, P., Stryker, S.D., Pickle, S., †Bamford, L.M., & §**McKenna, V.S.** “A survey study of vocal congruence in gender-diverse individuals who received professional vs. self-trained voice therapy.” Planned submission to *Journal of Voice,* Spring 2024.

**McKenna, V.S.**, Gustin, R.L., †Fletcher, B.N., †Dickinson, T.E., Howell, R.J., †Shanley, S.N., & †Patel, T.H. “Acoustic outcomes in Patients seeking Voice Feminization: Investigation into Articulatory and Spectral Measures.” Planned submission to *Journal of Voice*, Spring 2024.

**PUBLISHED ABSTRACTS** († = mentee)

**McKenna, V.S.,** & Gustin, R.L. (2022). Vocal health for mask-wearing healthcare providers. *Acoustical Society of America,* 152(4), A96.

**McKenna, V.S.,** †Llico, A.F., Friedman, A.D., †Shanley, S.N., Talavage, T., & †Bamford, L.M. (2022).Developing a voice monitoring smartphone app: Acoustic acquisition and processing considerations. *Acoustical Society of America*, 152(4), A60.

**McKenna, V.**, Heller Murray, E., Lien, Y., & Stepp, C. (2016). Acoustic and Kinematic Estimates of Laryngeal Stiffness. *Acoustical Society of America, 139*(4), 2193.

**RESEARCH PROJECTS**

**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: Completed (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: Completed (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: Enrollment closed; Analysis stage

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

Role: PI

Status: Enrollment closed; Analysis stage

**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: Enrollment closed; Analysis stage

**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, Greg Dion,

M.D., UC College of Medicine

Status: Enrolling subjects

**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: Approved

**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: Enrollment closed; Analysis stage

**Comparing voice and swallowing biomechanics in unilateral vocal fold paralysis (IRB#2022-0686)**

Role: PI

Co-PI: Rebecca Howell, M.D., UC College of Medicine

Status: Enrolling subjects

**Dialectal differences in school-aged children: A comparison of African American English (AAE) and Standard-American English (SAE) (IRB#2022-1099)**

Role: PI

Co-I: Amy Hobek, Ph.D., CCC-SLP

Status: Enrolling subjects

**FUNDING AWARDED**

**NIH Exploratory/Developmental Research Grant (R21) 12/2023-11/2025**

Improving the accessibility of transgender voice training with visual-acoustic biofeedback

Role: Co-I

Status: Ongoing

$275,000 direct

**Office of Research Collaborative Research Advancement Program: Pilot Grants 05/2023-04/2025**

Development and pilot evaluation of a smartphone app for transgender voice training

Role: Co-I

Status: Ongoing

$25,000

**CCTST Symposia Award 05/2023-03/2024**

Voice, Speech, & Technology Symposium

Role: Co-PI

Status: Completed

$3000

**Urban Health Pathways Seed Grant 03/2022–12/2023**

**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

Status: Completed

$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

Status: Completed

$2605

**Advancing Academic-Research Career (AARC) Award 08/2021–02/2023**

Advancing Culturally Responsive Practices in the Speech Sciences

Role: PI

Mentors: Karla N. Washington, Suzanne Boyce

Status: Completed

$5000

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

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

Emergency Medical Response Training: Increasing Independence for Flexible Laryngoscopy Research

Role: PI

Status: Completed

$785

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

**Office of Research, University of Cincinnati**

Developing a Voice Monitoring App for Chronic Voice Disorders

Role: PI

Status: Completed

$24,000

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

**American Speech-Language-Hearing Foundation**

Sensorimotor reflexes in hyperfunctional voice disorders

Role: PI

Status: Completed

$10,000

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

**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

Status: Completed

$31,228

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

**Sargent College, Boston University**

Physiological mechanisms of vocal effort

Role: PI

Status: Completed

$5000

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

**Office of Research, University of Cincinnati**

Developing a biophysical marker for swallowing stability in children

Role: PI

Status: Completed

$3000

**FUNDING APPLICATIONS (under review; not awarded)**

**American Laryngological Voice and Research Education Grant** 2024

Laryngeal High-Speed Videoendoscopy (HSV) to Analyze Laryngeal Closure

Parameters in Patients with Unilateral Vocal Immobility during Voice and Swallowing

Role: Co-PI

Status: Under Review

**NIH R01 ReWARD Grant** 2023

Advancing Collaborative Care and Evidence-based Strategies for Surgical Services

in Transgender Voice (ACCESS-Voice)

Role: PI

Status: Under Review

**C-STAR Pilot Project, Shirley Ryan Ability Lab** 2023

Optimization of a custom smartphone app for home-based voice tracking in

Unilateral Vocal Fold Paralysis

Role: Co-I

Status: Not Awarded

**American Laryngological Voice and Research Education Grant** 2023

Comparing voice and swallowing biomechanics in unilateral vocal fold paralysis

(UVFP): A novel approach using flexible high-speed videoendoscopy

Role: Co-I

Status: Not Awarded

**Showalter Research Trust, Purdue University** 2022

Utilizing acoustic patterns of healthy, idiopathic, and pathological coughs

to enable rapid and differential respiratory disease diagnosis

Role: Co-I

Status: Not Awarded

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

Laryngeal sensorimotor reflexes in hyperfunctional voice disorders

Role: PI

Status: Not Awarded

**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

**STUDENT MENTEE FUNDING (as Primary Research Mentor)**

**Undergraduate Research Fellowship** 12/2023-06/2024

**University of Cincinnati**

Quantitative voice outcomes from vocal feminization surgery: A single case

study with high-speed videoendoscopy and patient perspective

Student: Mary Wilkens, undergraduate mentee

Amount: $700

**Seed Money Research Grant** 08/2023-05/2024

**Ohio Speech-Language-Hearing Association**

Factors Influencing Automatic Speech Recognition Accuracies in

African American English-Speaking Children

Student: Brittany Fletcher, Doctoral mentee

Amount: $1500

**University Research Council Grant** 05/2023-08/2023

**University of Cincinnati**

Comparing Voice and Swallowing Biomechanics in Unilateral Vocal

Fold Paralysis (UVFP): A novel approach using flexible high-speed laryngoscopy

Student: Amna Mira, Doctoral mentee

Amount: $7500

**Graduate Student Government Research Fellowship** 05/2021-08/2021

**University of Cincinnati**

Student: Tulsi Patel, master-level mentee

Amount: $1500

**Graduate Student Government Research Fellowship** 05/2021-08/2021

**University of Cincinnati**

Student: Mariah Emery, master-level mentee

Amount: $1000

**TEACHING and EDUCATIONAL SERIES**

**Lead Professor**

*Voice Disorders*; *UC On-campus*: Graduate, 3 credits, 50 students Spring 2024

*Dysphagia, UC On-campus:* Graduate, 4 credits, 50 students Spring 2024

*Voice Disorders*; UC Distance Learning, TTI: Graduate, 3 credits, 36 students Fall 2023

*Dysphagia, UC On-campus:* Graduate, 4 credits, 47 students Spring 2023

*Neurogenic Cog. Disorders, TTI:* Graduate, 3 credits, 31 students Spring 2023

*Voice Disorders*; UC Distance Learning, TTI: Graduate, 3 credits, 31 students Fall 2022

*Voice Disorders*; UC Distance Learning, ACIND: Graduate, 3 credits, 46 students Fall 2022

*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

**Guest Lectures**

“Vocal Tract Acoustics for Different Speech Sounds,” *Physics of Sound and Music*, Fall 2023

Undergraduate*, University of Cincinnati*

“Tenure-track positions in Speech, Language, and Hearing Sciences,” Fall 2023

Doctoral/Postdoctoral Seminar, *Boston University*

“Respiratory Kinematics for Speech Research” Advanced Speech Science, Doctoral, Spring 2023

*University of Cincinnati*

“Statistical Packages,” *Doctoral Seminar II*, Graduate, *University of Cincinnati* Spring 2023

“Introduction to Neurocognitive Disorders,” *Exploring Communication Disorders in* Spring 2023

*Media and Literature*, Undergraduate, *University of Cincinnati*

“Vocal Tract Acoustics for Different Speech Sounds,” *Physics of Sound and Music*, Fall 2022

Undergraduate*, University of Cincinnati*, (co-presented with Dr. Boyce)

“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

**Educational Series**

“Culturally Inclusive Education for the Speech Sciences” Fall 2022

* Set of five educational modules focused on incorporating multicultural topics into an undergraduate speech science course. Located online at: *vsmechlab.com/speech-science*

“Masks and Vocal Health: One Voice at a Time” Spring 2021

* Set of four educational modules focused on improving communication for mask-wearing community members. Located online at: *vsmechlab.com/outreach*

**INVITED PRESENTATIONS** (\* = presenting author; † = mentee, § = senior author)

**\*McKenna, V.S.,** & Gustin, R.L. (2022) “Vocal health for mask-wearing healthcare providers.” Acoustical Society of America, Nashville, TN.

†Meriwether, J., †Llico, A.F., Patel, R., & **§McKenna, V.S.** (2022). “Voice and Cough Function in individuals who use E-cigarettes.” Voice, Speech, and Technology Symposium, Cincinnati, OH.

**\*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 Grand 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/POSTER PRESENTATIONS- Peer Reviewed** (\* = presenting author; † = student/mentee, § = senior author)

56] Wang, X., Weese, S., McAllister, T., **McKenna, V.S.,** & Novak, V. (2024) “Design and usability evaluation of a web-based pitch control training app for transgender women.” Human-Computer Interaction Conference, Washington, D.C. [Poster Presentation]. *Accepted.*

55] †Fletcher, B., †Wilkens, M., Hobek. A., & §**McKenna, V**. (2024). Investigating acoustic factors impacting speech-to-text accuracies in AAE-speaking children [Presentation]. National Black Association for Speech-Language and Hearing Conference, Charlotte, North Carolina. [Oral Presentation]. *Accepted*.

54] **McKenna, V.S**, †Wilkens, M., Stryker, S.D., Gustin, R.L., Pickle, S., & Madzia, J.(2024). “Voice and non-voice related quality of life outcomes over gender-affirming voice therapy.” Voice Foundation, Philadelphia, PA. [Poster Presentation]. *Accepted.*

53] †Shanley, S., †Wilkens, M.E., Dionisio, A., Gustin, R.L., Llico, A.F., & §**McKenna, V.S.** (2024). “A comparison of prosody characteristics before and after gender-affirming vocal feminization therapy.” Voice Foundation, Philadelphia, PA. [Poster Presentation]. *Accepted.*

52] †Wilkens, M.E., Gustin, R., Dion, G., Patel, R., Stryker, S., Pickle, S., & §**McKenna, V.S.** (2024). “Quantitative voice outcomes from vocal feminization surgery: A single case study with high-speed videoendoscopy and patient perspective.” Voice Foundation, Philadelphia, PA. [Poster Presentation]. *Accepted.*

51] Stryker, S.D., †Madzia, J., Pickle, S., †Bamford, L.M., & §**McKenna, V.S**. (2023). “Vocal congruence and safety: The medical necessity of gender-affirming vocal therapy.” USPATH Scientific Symposium, Westminster, CO. [Poster Presentation].

50] †Mira, A.S., †Goldsberry, L.J., Previtera, M.J., Simmons, A.K., & §**McKenna, V.S**. (2023). “A scoping review on the intersection of voice and swallowing measures in healthy and neurologically disordered adults.” Fall Voice, Washington, D.C. [Poster Presentation].

49] \***McKenna, V.S.**, †Madzia, J.L., Stryker, S.D., Pickle, S. & †Bamford, L.M. (2023). “A survey study of vocal congruence in gender-diverse individuals who received professional vs. self-trained voice therapy.” Fall Voice, Washington, D.C. [Poster Presentation].

48] †Mira, A.S., †Llico, A. F., Howell, R. J., & §**McKenna, V.S.** (2023). “Using high-speed flexible endoscopy to characterize laryngeal behaviors during swallowing in healthy adults”. American Speech-Language-Hearing Association Convention, Boston, MA. [Oral Presentation].

47] †Polnow, O., †Kluth, A., †Roberts, R., †Shanley, S., & §**McKenna, V.S.** (2023). “Voice Monitoring (VoMo) Smartphone Application: Debugging Process.” Undergraduate Scholarly Showcase, University of Cincinnati, Cincinnati, OH*.*[Oral Presentation].

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

46] †Doerr, H.N., †Mazloum, S.A., Vojtech, J.M., & §**McKenna, V.S.** (2023). “Acoustic and laryngoscopic investigation into laryngeal tension in patients with unilateral vocal fold hypomobility.” Boston Speech Motor Control Symposium, Boston, MA. [Poster Presentation].

***\*\*Dysphonia International Travel Award***

45] †Mira, A.S., †Wilkens, M.E., Washington, K.N., & §**McKenna, V.S.** (2023). “Phonemic and pitch variability in bilingual preschoolers: A comparison of Jamaican Creole and English.” Boston Speech Motor Control Symposium, Boston, MA. [Poster Presentation].

44] †Doerr, H.N., †Mazloum, S.A., Vojtech, J.M., & §**McKenna, V.S.** (2023). “Acoustic and laryngoscopic investigation into laryngeal tension in patients with unilateral vocal fold hypomobility.” Graduate Showcase, Cincinnati, OH. [Poster Presentation].

 ***\*\*Awarded “Top 10 Showcase Winner”***

43] Hobek, A., Booker, T., Foltz Hottle, A., **McKenna, V.S.**, Prather, L., & Pringle, K. (2023). “Coming Together: Faculty and Student Discussions and Perspectives of a CSD Program’s Efforts in Increasing Diversity, Equity and Inclusion.” Equity & Inclusion Conference, University of Cincinnati, Cincinnati OH. [Oral Presentation].

42] Hobek, A., Booker, T., Foltz Hottle, A., **McKenna, V.S.**, Prather, L., & Pringle, K. (2023). “Coming Together: Faculty and Student Discussions and Perspectives of a CSD Program’s Efforts in Increasing Diversity, Equity and Inclusion.” 45th Annual National Black Association for Speech-Language and Hearing Convention, Washington, DC. [Oral Presentation].

41] †Shanley, S.N., Hobek, A.L., León, M., & §**McKenna, V.S.** (2023). “Culturally inclusive course material for the Speech Sciences: Evaluation of an undergraduate speech science course with diversity emphasis.” 45th Annual National Black Association for Speech-Language and Hearing Convention, Washington, DC. [Poster Presentation].

40] †Madzia, J.L., †Bamford, L.M., Stryker, S.D., Pickle, S., & §**McKenna, V.S.** (2023). “Gender-diverse patients’ awareness and utilization of gender-affirming laryngological services.” Combined Otolaryngology Spring Meetings, Boston, MA. [Oral Presentation].

39] \***McKenna, V.S.,** †Llico, A.F., Friedman, A.D., †Shanley, S.N., Talavage, T., & †Bamford, L.M. (2022).“Developing a voice monitoring smartphone app: Acoustic acquisition and processing considerations.” Acoustical Society of America, Nashville, TN. [Poster Presentation]*.*

38] †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].

***\*\*Meritorious Poster Award,*** *awarded to less than 5% of all posters at the convention*

37] †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].

36] †León, 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].

35] †León, 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].

34] \***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].

33] Friedman, A., †Llico, A.F., †Shanley, S.N., †McGrogen, N., & §**McKenna, V.S**. (2022). Can you hear me now? Smartphone position influence on perceptual and acoustic analysis of normal and dysphonic voices. Fall Voice, San Francisco, CA. [Oral Presentation].

32] †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.”Saffran Conference, Philadelphia, PA. [Poster Presentation].

31] †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].

30]†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].

29] 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].

28] **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].

27] 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].

26] †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].

25] †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***

24] **\*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].

23] 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].

22] 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].

21] 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].

20] 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.*

19] **\*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].

18] **\*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].

17] **\*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].

16] 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].

15] **\*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].

14] †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].

13] 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].

12] 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].

11] **\*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].

10] **\*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].

9] **\*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].

8] **\*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].

7] **\*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].

6] **\*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***

5] **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. [Oral Presentation].

4] **\*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].

3] **\*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].

2] **\*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].

1] †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].

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

21] †Gohil, P., †Fletcher, B., Madzia, J., Stryker, S., Pickle, S., †Bamford, L., & §**McKenna, V.S.** (2024). Transforming Voices: Exploring Access, Barriers, and Outcomes of Affirming Voice Therapy for Transgender and Gender-Diverse Individuals. College of Allied Health Science Scholarly Showcase, Cincinnati, Ohio.

20] †Mazloum, S.A., †Doerr, H.N., Vojtech, J.M., & §**McKenna, V.S.** (2023). “Acoustic and laryngoscopic investigation into laryngeal tension in patients with unilateral vocal fold immobility.” Voice, Speech and Technology Symposium, Cincinnati, Ohio. [Poster Presentation].

19] †Mira, A.S., †Goldsberry, L.J., Previtera, M.J., Simmons, A.K., & §**McKenna, V.S**. (2023). “A scoping review on the intersection of voice and swallowing measures in healthy and neurologically disordered adults.” Voice, Speech and Technology Symposium, Cincinnati, Ohio. [Poster Presentation].

18] †Fletcher, B., †Wilkens, M., Hobek. A., Pratt, A., & §**McKenna, V.S.** (2023). “Factors Influencing Automatic Speech Recognition Accuracies in African American English-Speaking Children.” Voice, Speech and Technology Symposium, Cincinnati, Ohio. [Poster Presentation].

17] †Wilkens, M.E., Gustin, R., Dion, G., Stryker, S., Pickle, S., Patel, R., & §**McKenna, V.S.** (2023). “Quantitative voice outcomes from vocal feminization surgery: A single case study with high-speed videoendoscopy and patient perspective.” Voice, Speech, & Technology Symposium, Cincinnati, OH. [Poster Presentation].

16] †Kluth, A.J., †Polnow, O.M., †Carden, A., †Roberts, R., Friedman, A.F., & **§McKenna, V.S.** (2023). "Developing smartphone technology to monitor voice disorders: Debugging protocol." Voice, Speech, & Technology Symposium, Cincinnati, OH. [Poster Presentation].

15] †Robinson, J., †Mira, A.S., †Llico, A.F., Howell, R.J., & §**McKenna, V.S.** (2023). “Inter-rater reliability of high-speed video processing: A novel analysis of swallow physiology.” Voice, Speech, and Technology Symposium, Cincinnati, OH. [Poster Presentation].

14] †Dubey I., Stryker, S.D., Pickle, S., Dion, G.R., & §**McKenna, V.S.** (2023). “Gender-Affirming Vocal Care Coverage in Ohio by Insurance Provider and Policy Type”. UCCOM Annual Research and Service Symposium, Cincinnati OH. [Oral Presentation].

13]†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].

12] †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].

11] †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].

10] †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”***

9] **\*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].

8] **\*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].

7] **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].

6] †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].

5] †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].

4] †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].

3] †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].

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**

**Postdoctoral Fellows**

**Secondary Mentor**

Andres Llico, Biomedical Engineering, University of Cincinnati 2021–

**Thesis/Dissertation Committees**

**Chair**

Brittany Fletcher, Dissertation Chair, University of Cincinnati 2023–

 *Boston Speech Motor Control Conference Travel Award, 2023*

 *Seed Money Grant, OSHLA, 2023*

**Member**

Dalia Abdulkader, Doctoral committee member, *University of Cincinnati* 2023–

Michelle Leon, Dissertation committee, *University of Cincinnati* 2020–2022

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

**Doctoral Academic Committees**

**Chair**

Amna Mira, Doctoral Committee Chair, *University of Cincinnati* 2022–

 *University Research Council Grant Awardee, Summer 2023*

Brittany Fletcher, Doctoral Committee Chair, *University of Cincinnati* 2022–2023

**Member**

Brittany Fletcher, Doctoral committee member, *University of Cincinnati* 2020–2022

 *University Research Council Grant Awardee, Summer 2022*

Dalia Abdulkader, Doctoral committee member, *University of Cincinnati* 2020–2023

 *University Research Council Grant Awardee, Summer 2021*

**Graduate Students (Master’s level)**

Pooja Gohil, Graduate Capstone mentor, Public Health, *University of Cincinnati* 2023–

Olivia Polnow Primary research mentor*,* CSD, *University of Cincinnati* 2023–

Avery Kluth, Primary research mentor, CSD, *University of Cincinnati* 2023–

Jasmine Robinson, Graduate Capstone mentor, *University of Cincinnati* 2023–

Lindsey Goldsberry, Graduate Capstone mentor, CSD, *University of Cincinnati* 2023–

Sophie Mazloum, Graduate Capstone mentor, CSD, *University of Cincinnati* 2023–

Rachel Roberts, Primary research mentor, CSD, *University of Cincinnati* 2022–2023

Savannah Shanley, Graduate Capstone mentor, CSD, *University of Cincinnati* 2022–

Molly Conway, Primary research mentor, CSD, *University of Cincinnati* 2022–2023

Anna Birkemeier, Primary research mentor, CSD *University of Cincinnati* 2021–2023

Haley Doerr, Graduate Capstone, CSD, *University of Cincinnati* 2021–2023

 *Dysphonia International Travel Award, Boston, MA, 2023*

Kelly Carraro, Primary research mentor, CSD, *University of Cincinnati*  2021–2023

Lauren Humpert, Primary research mentor, CSD, *University of Cincinnati* 2021–2023

Elizabeth Mackley, Primary research mentor, CSD, *University of Cincinnati*  2021–2022

Sam Wesley, Graduate Capstone mentor, CSD, *University of Cincinnati*  2021–2022

Jacqueline Meriwether, Graduate Capstone mentor, *University of Cincinnati* 2021–2022

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

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

**Undergraduate Students**

Mandy Carden, Senior Capstone mentor, McNair Scholar, CSD, *University of Cincinnati* 2023–

Olivia Polnow Senior Capstone mentor, CSD, *University of Cincinnati* 2022–2023

Avery Kluth, Senior Capstone mentor, CSD, *University of Cincinnati* 2022–2023

Emily Gelhausen, Primary research mentor, CSD, *University of Cincinnati* 2022–

Mary Wilkens, Primary research mentor, CSD, *University of Cincinnati* 2022–

 *UPRISE program, Summer 2022*

 *Undergraduate Research Fellowship, $700, Winter 2023*

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

 *Undergraduate Research Co-Op Fellowship Awardee, Summer 2022*

Neil McGrogen, Primary research mentor, Computer Science, *University of Cincinnati* 2022–2023

Paige Dixon, Senior Capstone mentor, CSD, *University of Cincinnati* 2021–2022

Julie Panstares, Senior Capstone mentor, CSD, *University of Cincinnati* 2021–2022

Rachel Roberts, Senior Capstone mentor, CSD, *University of Cincinnati* 2021–2022

Savannah Shanley, Co-mentor, CSD, CSD, *University of Cincinnati* 2021–2022

Aleksandar Gjurovikj, Co-Op Co-mentor, Computer Science, *University of Cincinnati* 2021

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

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

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

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

 *Showcase Presentation Award: Excellence in Communication, 2021*

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

*Showcase Presentation Award: Excellence in Communication, 2021*

Tara Dickinson, Distance Scholar mentor, CSD, *Case Western University* 2020–2022

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

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

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

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

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

*Summer Undergraduate Mentored Research Program Awardee, Summer 2014*

**Mentorship Awards**

Nominated for “Excellence in Undergraduate Mentorship,” CAHS Capstone 2022, 2023

**SERVICE**

**University Service: University of Cincinnati**

***Committees and Positions***

Department Reappointment and Tenure Committee, Member 2023–

Department Chair Reappointment Committee, Co-Chair 2022–2023

Tenure Track Search Committee, Member 2022–2023

University Research Council Faculty Grant Review Committee, University Level 2022–2023

Executive Committee and Host: Voice, Speech, & Technology Symposium 2022–

* Founder of a city-wide symposium to foster collaboration among researchers

in the greater Cincinnati area

Diversity Committee, Co-Chair, Faculty Development/Research, CSD Dept 2022–2023

Diversity Committee, Member, CSD Dept. 2021–

Ad-hoc IRB Reviewer, University level 2021

CEU Administrator, CSD Dept. 2020–

University Research Council Student Grant Review, CSD Dept. Internal Committee 2020, 21, 23

University Research Council Student Grant Review Committee, University level 2014, 15, 24

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

***Clinical Supervision and Trainings***

FLAMingle Clinical Roundtable, master’s level, rotation supervisor 2023

Rigid and Flexible laryngoscopy training 2021–

* Supervises students in rigid/flexible laryngoscopy for research and clinical practice
* Has supervised more than 8 graduate students in these endeavors

Clinical Supervision, 134 hours 2021–

* Areas include: Voice evaluation, cognitive evaluation, hearing screening

***Community Outreach and Education***

Tabling to Educate about Health Services

* Rainbow Rush, *University of Cincinnati*  Fall 2023
* Trans day of Visibility, *Cincinnati Public Library* Spring 2023
* Big Gay Welcome, *University of Cincinnati*  Fall 2022
* Pride, *Cincinnati Community Event* Spring 2022

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

**Invited Talks for Student Groups outside UC**

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

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

**Professional Service**

Natural Sciences and Engineering Research Council of Canada, Grant Reviewer 2022, 23

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, Laryngoscope,

International Journal of Language and Communication Disorders, MDPI

Organizing Committee, Boston Speech Motor Control Mini-Symposium2017

***Service to ASHA***

Speech and Language Science Convention Committee, *ASHA Convention* 2021, 22, 23

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

**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