

## CURRICULUM VITAE

Chaya Guntupalli (Nanjundeswaran), PhD., CCC-SLP  
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### Education

08/2013	Ph.D.	University of Pittsburgh, Pittsburgh, PA. (Metabolic Mechanisms of Vocal Fatigue)
05/2003	M.S. (Sp & Hg)	All India Institute of Speech and Hearing, India
05/2001	B.S. (Sp & Hg)	All India Institute of Speech and Hearing, India

### Professional Positions

July 2022- Present	Professor Dept. of Audiology and Speech-Language Pathology East Tennessee State University, Johnson City, TN
July 2016- June 2022	Associate Professor Dept. of Audiology and Speech-Language Pathology East Tennessee State University, Johnson City, TN
August 2010- June 2016	Assistant Professor Dept. of Audiology and Speech-Language Pathology East Tennessee State University, Johnson City, TN
August 2007 – August 2009	Graduate Research Assistant Voice and Motor Physiology University of Pittsburgh, Pittsburgh, PA
August 2006 – July 2007	Clinical Fellow Voice Center, University of Pittsburgh Medical Center, Pittsburgh, PA
Sep 2004 – June 2006	Research assistant Speech Science Laboratory Dept. of Communication Sciences and Disorders East Carolina University, Greenville, NC

August 2003 – July 2004      Speech- Language Pathologist  
Private practice, Bangalore, India

### **Prior Affiliations**

Consultant, Ear, Nose, & Throat Associates, Johnson City, TN

### **Current Affiliations**

Visiting Researcher, School of Communication Sciences and Disorders, University of Memphis

### **Honors**

2022	Dean's Distinguished Faculty Research Award College of Clinical and Rehabilitative Health Sciences East Tennessee State University
2018	Journal of Voice, Metabolic Mechanisms of Vocal Fatigue- 2017 Best Paper Award in Speech Pathology
2016	Journal of Voice, Vocal Fatigue Index (VFI): Development and Validation - 2015 Best Paper Award in Speech Pathology
2016	Dean's Distinguished Faculty Teaching Award College of Clinical and Rehabilitative Health Sciences East Tennessee State University
2016	Recipient- Dean's Research Fellowship Award
2015	Mentee, ASHA Pathways Program (funded by NIDCD)
2014	Dean's Distinguished Faculty Research Award College of Clinical and Rehabilitative Health Sciences East Tennessee State University
2008	Travel Award, Graduate and Professional Student Assembly (GPSA)
2008	Travel award, School of Health and Rehabilitation Sciences, University of Pittsburgh
2007	Partial tuition scholarship to attend Summer Institute in Communication Disorders, CAPCSD

### **Grants**

**Nanjundeswaran, C. (PI).** Cardiovascular Conditioning in the Treatment of Vocal Fatigue, **NIH-NIDCD R15 Funded** (August 2019- July 2023), \$407,686.

Nanjundeswaran, C. (PI). CCHRS Dean's Research Fellowship Award, \$20,000 (Funded Spring 2016- Fall 2017).

Nanjundeswaran, C. (PI). A Preliminary Study on the Effects of Amplification in the

Prevention of Voice Problems in Teachers, Small RDC Funded (Oct 2014- June 2015), \$1097.00

Nanjundeswaran, C. (PI). Examination of Energy Efficiency of Two Types of Behavioral Voice Therapy, Major RDC Funded (July 2013- June 2014). \$9034.00

Nanjundeswaran, C. (PI). Metabolic Mechanisms of Vocal Fatigue. SHRS Research Development Fund (Funded July 2012-June 2013).

## **Publications**

### **Peer Reviewed Manuscripts**

Foulks Pointer, N., van Mersbergen, M., & **Nanjundeswaran, C.** (2022). Listeners' Attitudes Towards Young Women with Glottal Fry. *Journal of Voice*, S0892-1997(22)00281-8, doi: 10.1016/j.jvoice.2022.09.007

Shembel, A., & **Nanjundeswaran, C.** (2022). Potential Biophysiological Mechanisms Underlying Vocal Demands and Vocal Fatigue. *Journal of Voice*, S0892-1997(22)00220-X, doi: 10.1016/j.jvoice.2022.07.017

**Nanjundeswaran, C.** & Shembel, A. (2022). Laying the Groundwork to Study the Heterogenous Nature of Vocal Fatigue. *Journal of Voice*, S0892-1997(22)00210-7, doi: 10.1016/j.jvoice.2022.07.008

**Nanjundeswaran, C.**, van Mersbergen, M., Banks, R., & Hunter, E. (2021). Vocal Fatigue Index in Teachers Using Mokken Analysis, *Journal of Voice*, <https://doi.org/10.1016/j.jvoice.2020.12.053>

Zambon, F., Moreti, F., Ribeiro, V.V., **Nanjundeswaran, C.** , & Behlau, M. (2020). Vocal Fatigue Index: Validation and Cut-off Values of the Brazilian Version, *Journal of Voice*, <https://doi.org/10.1016/j.jvoice.2020.06.018>

Hunter, E., Cantor-Cutiva, L., van Leer, E., van Mersbergen, M., **Nanjundeswaran, C.**, Pasquale, B., Sandage, M., & Whitling, S. (2020). Towards a Consensus Description of Vocal Effort, Vocal Load, Vocal Loading, and Vocal Fatigue: *Journal of Speech, Language and Hearing Research*. doi: 10.1044/2019\_JSLHR-19-00057

Naderifar, E., Moradi, N., Farzadi, F., Tahmasebi, N., Soltani, M., Latifi, S.M., & **Nanjundeswaran, C.** (2019). Cross-cultural adaptation and validation of the Vocal fatigue Index into Persian, *Journal of Voice*, 33(6), 816e1-12.

**Nanjundeswaran C.**, van Mersbergen M., & Morgan K (2019). Restructuring the Vocal Fatigue Index Using Mokken Scaling: Insights Into the Complex Nature of Vocal Fatigue, *Journal of Voice*, 33(1), 110-114.

**Nanjundeswaran C.**, & Carroll, T. (2017). Meta-analysis for medical intervention of unilateral vocal fold paralysis: Limited evidence on generalization of voice outcomes: Evidence-Based Communication Assessment and Intervention, 11(1-2):42-46.

**Nanjundeswaran, C.**, VanSwearingen, J., & Verdolini-Abott, K., (2017). Metabolic

Mechanisms of Vocal Fatigue. *Journal of Voice*, 31 (3), 378e1-378e11.

Zambon, F., Moreti, F., **Nanjundeswaran, C.**, & Behlau, M. (2017). Cross-cultural adaptation of the Brazilian version of the Vocal Fatigue Index – VFI. *CoDAS*, 29(2), e20150261.

**Nanjundeswaran, C.**, Jacobson, B., Gartner-Schmidt, J., & Verdolini-Abbott, K. (2015). Vocal Fatigue Index: Development and Validation. *Journal of Voice*, 29 (4), 433-40.

**Nanjundeswaran, C.**, Li, N.Y.K., Chan, K., Wong, R.K.S., & Verdolini-Abbott, K. (2012). Preliminary Data on Prevention of Voice Problems in Student Teachers. *Journal of Voice*, 26 (6), 816.e1-12.

Guntupalli, V.K., **Nanjundeswaran, C.**, Kalinowski, J., & Dayalu, V.N. (2012). Autonomic and Emotional Responses of Graduate Student Clinicians in Speech-Language Pathology to Stuttered Speech. *International Journal of Language and Communication Disorders*, 47 (5), 603-608.

Guntupalli, VK., **Nanjundeswaran, C.**, Kalinowski, J., & Dayalu, V.N. (2011). The Effect of Static and Dynamic Speech Gestures on Stuttering Inhibition. *Neuroscience Letters*, 492 (1), 39-42.

Guntupalli, VK., **Nanjundeswaran, C.**, Kalinowski, J., & Dayalu, V.N. (2011). Past Speech Therapy Experiences of Individuals Exploring a New Stuttering Treatment. *Perceptual Motor Skills*, 112 (3), 975-980.

Guntupalli, V. K., Everhart, D. E., Kalinowski, J., **Nanjundeswaran, C.**, & Saltuklaroglu, T. (2007). Emotional and physiological responses of fluent listeners while watching the speech of adults who stutter. *International Journal of Language and Communication Disorders*, 42, 113-129.

Guntupalli, V. K., Kalinowski, J., **Nanjundeswaran, C.**, Saltuklaroglu, T., & Everhart, D. E. (2006). Psychophysiological responses of adults who do not stutter while listening to stuttering. *International Journal of Psychophysiology*, 62, 1-8.

Guntupalli, V. K., Kalinowski, J., Saltuklaroglu, T., & **Nanjundeswaran, C.** (2005). The effects of temporal modification of second speech signals on stuttering inhibition at two speech rates in adults. *Neuroscience Letters*, 385, 7-12.

### **Selected Abstracts/ Presentations (2011-present)**

**Nanjundeswaran, C.**, & Van Swearingen, J. (June 3, 2023), Differential Treatment Approaches in The Amelioration of Vocal Fatigue, 52<sup>nd</sup> Care of the Professional Voice, Annual Voice Symposium, Philadelphia, PA

Vermillion, L., & **Nanjundeswaran, C.** (June 3, 2023), A Systematic Investigation of Loudness as a Vocal Demand Ingredient in Monitoring Vocal Cover Fatigue, 52<sup>nd</sup> Care of the Professional Voice, Annual Voice Symposium, Philadelphia, PA

Ramu, S., & **Nanjundeswaran, C.** (June 1, 2023), Generation Z's Attitudes Toward Individuals with Glottal Fry (Poster presentation), 52<sup>nd</sup> Care of the Professional Voice,

Annual Voice Symposium, Philadelphia, PA

**Nanjundeswaran, C.**, Dupre, M., Forren, S., Schneider, B., & Winkler, K. (June 4, 2022), Listener's Attitudes Toward Young Men Using Glottal Fry, 51<sup>st</sup> Care of the Professional Voice, Annual Voice Symposium, Philadelphia, PA

**Nanjundeswaran, C.**, Desai, V. (February 19, 2022- **Invited Plenary Speaker**), An Eclectic Physiologic Based Approach to Voice Therapy- Case Based Perspectives, 53<sup>rd</sup> Annual Convention of the Indian Speech and Hearing Association, Mysuru, India

Farnsworth, E., **Nanjundeswaran, C.** (November 20, 2021), Metabolic Profiles of Different Voice Types; A Preliminary Report, ASHA Convention, Washington, DC.

Foulks, N., vanMersbergen, M., Louw, B., Gorman, C. & **Nanjundeswaran, C.** (June 3, 2021), Listeners' Attitudes towards Young Women using Glottal Fry, 50<sup>th</sup> Annual Virtual Symposium: Care of Professional Voice, Philadelphia, PA

**Nanjundeswaran, C.** (May 29, 2020), Measuring and Monitoring the Complex Nature of Vocal Fatigue: Special Panel on Vocal Fatigue: Is it Worth the Effort?, 49th National Virtual Voice Symposium.

**Nanjundeswaran, C.**, Ballone, H., Farris, A., Foulks, N., Richardson, S. (October 19, 2019). Listener Attitudes towards Individuals with Voice Disorders, Fall Voice Conference, Plano, TX.

**Nanjundeswaran, C.**, van Mersbergen, M., Hunter, E., & Banks, R. (October 18, 2019). Mokken Scaling and Vocal Fatigue Index- Insights in to the Complex Nature of Vocal Fatigue, Poster Presentation, Fall Voice Conference, Plano, TX.

**Nanjundeswaran, C.**, & VanSwearingen, J. (Sep 5, 2019): Cardiovascular Conditioning in the Treatment of Vocal Fatigue- Invited Speaker, World Phonosurgery Congress, Beunos Aires, Argentina.

Hunter, E., Cantor-Cutiva, L., van Leer, E., van Mersbergen, M., **Nanjundeswaran, C.**, Pasquale, B., Sandage, M., & Whitling, S. (August 28, 2019): Towards a consensus description of Vocal Effort, Vocal Load, Vocal Loading, and Vocal Fatigue, Pan-European Voice Conference, Copenhagen, Denmark.

Ballone, H., Farris, A., Foulks, N., Richardson, S., & **Nanjundeswaran, C.** (April 11, 2019). Listener Attitudes toward Teachers with Voice Problems: Appalachian Student Research Forum, ETSU, Johnson City, TN.

**Nanjundeswaran, C.**, & VanSwearingen, J. (July 31, 2018). Body-System Level Cardiovascular Conditioning and Vocal Fatigue: 11<sup>th</sup> International Conference on Voice Physiology and Biomechanics, Michigan State University, East Lansing.

Verdolini-Abbott, K., **Nanjundeswaran, C.**, Tellis, C., & Apfelbach, C. (July 31, 2018). Vocal Fatigue: Potential Physiological Mechanisms and Treatment Implications: 11<sup>th</sup> International Conference on Voice Physiology and Biomechanics, Michigan State University, East Lansing.

Smith, H., Campolongo, K., Garreston, B., Marley, V, Waters, A., & **Nanjundeswaran, C.** (June 2, 2018). Student Attitudes towards Individuals with Voice Disorders: 47<sup>th</sup> Annual Symposium: Care of Professional Voice, Philadelphia, PA

Smith, H., Louw, B., Oh, S., & **Nanjundeswaran, C.** (June 2, 2018). Vocal Health: Awareness and Perceptions in Undergraduate Vocal Music and Theatre Majors: 47<sup>th</sup> Annual Symposium: Care of Professional Voice, Philadelphia, PA

**Nanjundeswaran, C.**, & VanSwearingen, J. (June 3, 2017). Differential Effects of Cardiovascular Conditioning versus Voice Production Exercises in a Patient with Vocal Fatigue, technical Session: : 46<sup>th</sup> Annual Symposium: Care of the Professional Voice, Philadelphia, PA

Zambon, F., Moreti, F, **Nanjundeswaran, C.**, & Behlau, M. (2017). Cross Cultural Adaptation of the Brazilian Version of the Vocal fatigue Index- VFI, Poster Session: 46<sup>th</sup> Annual Symposium: Care of the Professional Voice, Philadelphia, PA

Lucht, A., Boggs, E., Garland, E., McClain, B. & **Nanjundeswaran, C.** (April 7, 2016). Effects of Biofeedback on Vocal Behavior on a Child with a Unilateral Vocal Fold Lesion, Appalachian Student Research Forum, ETSU, Johnson City, TN.

**Nanjundeswaran, C.**, VanSwearingen, J., & Verdolini Abbott, K. (November 13, 2015). Vocal Fatigue- Role of Aerobic Conditioning in Metabolic Cost and Recovery from Reading. ASHA Annual Convention, Denver, CO.

Creech, C., Jamison, B., Lacey, T., Patton, E., & **Nanjundeswaran, C.** (November 13, 2015). Understanding Role of Occupational Risk Factors in Voice Problems of Teachers, ASHA Annual Convention, Denver, CO.

**Nanjundeswaran, C.**, Bassich, C., & Samlan, R. (November 22, 2014). Student Training in a University Setting Voice Clinic- How do we do it? ASHA Annual Convention, Orlando, FL.

**Nanjundeswaran, C.**, VanSwearingen, J., & Verdolini- Abbott, K. (October 18, 2013). Aerobic Conditioning- Role of Aerobic Conditioning in Metabolic Cost and Recovery from Reading, Poster Presentation, Fall Voice Conference, Atlanta, GA.

**Nanjundeswaran, C.**, Jacobson, B., Gartner-Schmidt, J., Rosen, C., & Verdolini-Abbott, K. (July 18, 2013). Vocal Fatigue Index- Validation and Implications, Technical Session, 2013 Phonosurgery Symposium, Salt Lake City, UT

**Nanjundeswaran, C.**, Verdolini-Abbott, K., Jacobson, B., Gartner-Schmidt, J., & Rosen, C. (June 4, 2011). Final Validation of Vocal Fatigue Index. Technical Session. 40<sup>th</sup> Annual Symposium: Care of the Professional Voice, Philadelphia, PA.

### **Selected Invited Talks**

Nanjundeswaran, C. (February 8<sup>th</sup>, 2023), Faculty 3-Minute Mixer, Understanding the Complex Construct of Vocal Fatigue”, East Tennessee State University.

Nanjundeswaran, C. (June 10<sup>th</sup>, 2023), Laryngology Update, “Recent Advances in Voice Therapy”, Online, Pune, India.

Nanjundeswaran, C. (September 13<sup>th</sup>, 2022), Understanding Your Vocal Instrument, Dept. of Music, Vocal Pedagogy Course, East Tennessee State University.

Nanjundeswaran, C. (April 16<sup>th</sup>, 2021), Vocal Fatigue- Mechanism and Prevention, Dept. of ENT and Dept of Audiology and Speech-Language Pathology, Yenopoya University, Mangalore, India (in honor of World Voice Day).

Nanjundeswaran, C. (March 22<sup>nd</sup> 2021). Enhancing Communication and Breaking the Barriers of Accent, Bill Gatton College of Pharmacy.

Nanjundeswaran, C. (January 12, 2021). Tips for Voice Care, Johnson City Schools, TN.

Nanjundeswaran, C. (November 9, 2019). Voice Disorders in Teachers- An Occupational Hazard, 6<sup>th</sup> Sri Ramachandra Voice Update (a webinar), Chennai, India.

Nanjundeswaran, C., & VanSwearingen, J. (Sep 5, 2019): Cardiovascular Conditioning in the Treatment of Vocal Fatigue- **Invited Speaker**, World Phonosurgery Congress, Buenos Aires, Argentina.

Nanjundeswaran, C. (May 31, 2019). Supervisor Share: Guiding Future Colleagues- Panel Member, CEU event, Department of Audiology and Speech-Language Pathology, East Tennessee State University, Johnson City, TN

Nanjundeswaran, C. (April 16, 2019). Preventative Voice Care, World Voice Day Event, Department of Music, East Tennessee State University, Johnson City, TN.

Nanjundeswaran, C. (July 8, 2017). Workshop on Current Trends in Voice Therapy, NSSHLA CEU Event, Johnson City, TN.

Nanjundeswaran, C. (April, 11, 2017). Vice Disorders- an Overview, Vocal Pedagogy Class, Department of Music, East Tennessee State University, Johnson City, TN.

Nanjundeswaran, C. (March 2017), Vocal fatigue- Where do we Stand? Workshop on the Assessment in Voice Disorders (a webinar), Mysuru, India.

Nanjundeswaran, C., (October 24, 2016). Anatomy of the Phonatory System for first year medical Students, Quillen College of Medicine, Johnson City, TN.

Nanjundeswaran, C. (September 24, 2015). Workshop on Voice and Its Care, Johnson City School Systems, Johnson City, TN.

Nanjundeswaran, C. (July 23, 2015). Workshop on Current Trends and Practices in Voice Therapy”, All India Institute of Speech and Hearing, Mysuru, India.

Nanjundeswaran, C. (January 14, 2015). Voice and Its Care- To Music Students in Training. Department of Music, Milligan College.

Nanjundeswaran, C. (October 21, 2014). Workshop on Voice Care, Johnson City School Systems, Johnson City, TN.

Nanjundeswaran, C. (September 19, 2014). Vocal Cord Dysfunction- from a SLP perspective, Allergy and Asthma Conference, Quillen College of Medicine, Johnson City, TN.

Nanjundeswaran, C. (August 14, 2014). Workshop on Voice Care, Johnson City School Systems, Johnson City, TN

Nanjundeswaran, C. (March 29, 2014). Voice and Its Care, Music Conference- Pentecostals Church, Johnson City, TN

Nanjundeswaran, C. (February 4, 2013). Vocal Hygiene and Tips for a Healthy Voice- To Music Students in Training. Department of Music, Milligan College.

### **Student Thesis**

#### **Chair**

Natalie Foulks (2020). Listener's Attitudes Towards Young Women with Glottal Fry.

Heather Smith (2018), Vocal Health: Awareness and Perceptions in Undergraduate Vocal Music and Theatre Majors.

Swetha Swaminathan (2012), Role of Therapeutic Devices in Enhancing Speech Intelligibility and Vocal Intensity in an Individual with Parkinson's Disease.

### **Undergrad Honors Thesis**

Loren Vermillion (2023), A Systematic Investigation of Loudness as a Vocal Demand Ingredient in Monitoring Vocal Cover Fatigue.

#### **Committee Member**

Alexis Moser (2023), Speech Language Pathologists' Perceptions of the Severity of Speech Sound Disorders.

Kristy Moore (2016), Interprofessional Patient Simulation Training Compared to Online Training for Learning to use In-Line Speaking Valves.

### **Student Projects**

Savannah Forren, Bailey Schneider, Marci Dupre and Kylee Winkler (2021-2023). Listeners' Perceptions Toward Young Men using Glottal Fry.

Sathvik Ramu (2023; AP research project). Generation Z's Attitudes Toward Individuals with Glottal Fry

Evan Farnsworth (2021). Metabolic efficiency of different voice types: Glottal Fry, Modal Phonation, and Flow phonation.



## **Dissertation- Doctoral Student**

### **Co-Chair**

Zeth Collom (Texas Tech University Health Sciences Center- Lubbock), Vocal Fatigue Index in Teachers

### **Book Contribution**

Nanjundeswaran, C. (2019). An eclectic approach in the management of an individual with vocal fatigue. In Stemple & Hapner (Ed. 5), Voice Therapy: Clinical Case Studies.

Nanjundeswaran, C. (2015). An eclectic approach in the management of an individual with vocal fatigue. In Stemple & Hapner (Ed. 4), Voice Therapy: Clinical Case Studies.

### **Areas of Teaching Expertise**

Anatomy and Physiology of the Speech Systems

Speech Science

Research Methods

Fluency Disorders

Voice Disorders

Voice Lab

### **University level Service**

Department Student Advising Committee

Department SLP Liaison CSDCAS application system

Department Faculty and Chair Search Committee

Department and College Strategic Planning Committee

Department and College Curriculum Committee

Department and College Research Committee

Department and College Promotion and Tenure Committee

College Faculty and Student Awards Committee

College Diversity, Equity, Inclusion, Intersectionality, Power, and Anti-Racist (DEIPAR) Committee

College Committee- Development of the B.S. in Rehabilitation Sciences Program

College Search Committee- Associate Dean for Academic Affairs

University level Research Development Committee Grant Reviewer

University level International Education Level Scholarship Committee

**Professional Contribution**

Served as a member on the Voice and Alaryngeal Committee (2013, 2014, 2016, 2019)

Editorial Board- Journal of Voice, JSM Communication Disorders, Journal of AISH,  
Perspectives of the ASHA Special Interest Group

Ad-Hoc Reviewer- American Journal of Speech-Language Pathology, Journal of  
Speech, Language, and Hearing Research, and International Journal of Speech-  
Language Pathology, Folia Phoniatica et Logopaedica

Committee Member- NSDA Award Committee, Voice Symposium

**Certification/Licensure**

Clinical Competence Certification – Speech, Language Pathology, American Speech  
Language Hearing Association

SLP Tennessee State Licensure