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2009-2010 Colonel Allan R. & Margaret G. Crow Term Professor

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EDUCATION

2001	Ph.D.	Indiana University, Bloomington	Speech and Hearing Sciences
1997	M.Sc.	University of Mysore, INDIA.	Speech and Hearing Sciences
1995	B.Sc.	University of Mysore, INDIA.	Speech and Hearing Sciences

WORK EXPERIENCE

2007 – Present Associate Professor, University of Florida, Gainesville.

2005 – Present Research Scientist, Brain Rehabilitation Research Center (BRRRC), Malcom Randall VA Medical Center, Gainesville, FL.

2002 – 2007 Assistant Professor, University of Florida, Gainesville.

1997 – 1999 Clinical Fellow, Dept. of Speech & Hearing Sciences, Indiana University.

1997 – 2001 Associate Instructor, Indiana University Bloomington.

RESEARCH

Peer-Reviewed Publications:

(Students authors are indicated in *italicized and underlined text*)

Wheeler, K. H., **Shrivastav, R.**, Nisgara, B. & Sapienza, C. M. (Submitted). "Potential sources of error in the quantification of hyoid movement during swallow."

Harnsberger, J. D., Brown, W. S., **Shrivastav, R.**, and Rothman, H. B. (In Press) "Noise and tremor in the perception of vocal aging in males." *Journal of Voice*.

Shrivastav, R. & Camacho, A. (In Press). A computational model to predict changes in breathiness resulting from variations in aspiration noise level. *Journal of Voice*.

Patel, S. A., **Shrivastav, R.** & Eddins, D. A. (In Press). "Perceptual distances of breathy voice quality: A comparison of psychophysical methods." *Journal of Voice*.

Plowman-Prine, E. K., Okun, M. S, Sapienza, C. M, **Shrivastav, R.**, Fernandez, H .H. Foote, K. D., Ellis C, Rodriguez, A. R, Burkhead, L. M & Rosenbek, J. C. (In Press). "Perceptual Characteristics of Parkinsonian Speech: A comparison of the pharmacological effects of levodopa across speech and non-speech motor systems." *Journal of Neurorehabilitation*.

- Jones, H. N., Shrivastav, R., Wu, S. S., Plowman-Prine, E. K., & Rosenbek, J. C. (2009), Intensity and fundamental frequency variability before and after two behavioral treatments for aprosodia. *Journal of Medical Speech-Language Pathology*, 17, 45-53.
- Perrin, P. B., Heesacker, M., & Shrivastav, R. (2008). Removing the tinted spectacles: Accurate client emotionality assessment despite therapists' gender stereotypes. *Journal of Social and Clinical Psychology*, 27, 711-733.
- Ludlow, C. L., Hoit, J., Kent, R. D., Ramig, L. O., **Shrivastav, R.**, Smith, A., Stathopoulos, E., Strand, E., Yorkston, K., & Sapienza, C. (2008). Translating principles of neural plasticity into research on speech motor control recovery and rehabilitation. *Journal of Speech Language and Hearing Research*, 51 (1), 240-58.
- Harnsberger, J. D., **Shrivastav, R.**, Brown, W. S., Rothman, H. B., & Hollien, H. (2008). Speaking rate and fundamental frequency as speech cues to perceived age. *Journal of Voice*, 22 (1), 58-69.
- Brown, W. S. & **Shrivastav, R.** (2007). Comfortable effort level in young children's speech. *Folia Phoniatri Logop.* 59 (5), 227-33.
- Wingate, J. M., Brown, W. S., Shrivastav, R., Davenport, P., Sapienza, C.M. (2007). Treatment outcomes for professional voice users. *Journal of Voice*, 21 (4), 433-49.
- Jones, H. N., Donovan, N. J., Sapienza, C. M., Shrivastav, R., Fernandez, H. H., & Rosenbek, J. C. (2006). Expiratory muscle strength training in the treatment of mixed dysarthria in a patient with Lance-Adams syndrome. *Journal of Medical Speech-Language Pathology*, 14 (3), 207-217
- Shrivastav, R.** & Sapienza, C. (2006). "Some difference limens for the perception of breathiness. *Journal of the Acoustical Society of America*, 120(1), 416-423.
- Shrivastav, R.** (2006). Multidimensional scaling of breathy voice quality. *Journal of Voice*, 20(2), 211-222.
- Gu, L., Harris, J. G., Shrivastav, R. & Sapienza, C. (2005). Disordered speech assessment using automatic methods based on quantitative measures. *EURASIP Journal on Applied Signal Processing*, 9, 1400-1409.
- Shrivastav, R., Sapienza, C. & Nandur, V.** "Application of Psychometric Theory to the Measurement of Voice Quality Using Rating Scales." (2005). *Journal of Speech-Language & Hearing Research*, 48(2), 323-335.
- Jiménez, C., Díaz, J. A., **Shrivastav, R.**, Rothman, H. & Del Pino, P. (2005). Determination of the signal to noise ratio of the voice using wavelet transform. *Revista Ingeniería*, 12 (1), 7-16.
- Shrivastav, R., & Sapienza, C.** (2003). Objective Measures of Breathly Voice Quality Obtained Using an Auditory Model. *Journal of the Acoustical Society of America*, 114(4), 2217-2224.
- Shrivastav, R.** (2003). The Use of an Auditory Model in Predicting Perceptual Ratings of Breathly Voice Quality. *Journal of Voice*, 17(4), 502-512.
- Yamaguchi, H., **Shrivastav, R.**, Andrews, M. L., & Niimi, S. (2003). A comparison of voice quality ratings made by Japanese and American listeners using the GRBAS scale. *Folia Phoniatri Logop*, 55(3), 147-157.
- Bohnenkamp, T.A., Andrews, M.L., **Shrivastav, R.** & Summers, A. (2002) "Changes in Children's Voices: The Effects of Cognitive Cues." *Journal of Voice*, 16(4), 530 - 543.

Andrews, M.L., **Shrivastav, R.** & Yamaguchi, H. (2000) "The role of cognitive cueing in eliciting vocal responses." *Journal of Voice* 14 (4), 494-501.

Shrivastav, R., Yamaguchi, H. & Andrews, M.L. (2000). "Effects of stimulation techniques on vocal responses: Implications for assessment and treatment." *Journal of Voice*, 14(3), 322-330.

Non-Refereed Items:

Shrivastav, R. (In Press). "Acoustic analysis of voice." In Sapienza, C. S. & Ruddy, B. H. "Voice Disorders", Plural Publishing Inc., San Diego, CA.

Patel, S. & **Shrivastav, R.** (2007). "Perception of Dysphonic Vocal Quality: Some Thoughts and Research Update." Special Interest Division-3: Voice and Voice Disorders

Shrivastav, R., & Wingate, J. (2006). Perceptual attributes and assessment of the singer's voice. In M. S. Benninger & T. Murry (Eds.), *The Performer's Voice* (pp. 103-116). San Diego: Plural Publishing.

Shrivastav, R. (2005) "From vocal quality measurement to perception." *Proceedings of the 4th International Workshop on Models and Analysis of Vocal Emissions for Biomedical Applications*, 115-118.

Shrivastav, R. (2002) "Acoustic analysis of children's voice." *Perspective on Voice and Voice Disorders*, 12 (1), 11-12.

Shrivastav, R. (2001) Instrumental Analyses of Voice. In M.L. Andrews & A.C. Summers, "Voice Disorders in Children" (pp. 163-190), San Diego: Singular Publishing Group.

Presentations (Invited):

Holmes, A. E., **Shrivastav, R.**, Krause, L. (2009). "Speech based optimization of hearing devices." Presented at the "Convergence of CI and HA Technology Workshop", hosted by Cochlear Inc., and University of Miami, January, 14-15, 2009, Miami, FL

Shrivastav, R. (2006). "Now hear this! Improving perceptual evaluations of voice quality." Invited presentation for the Special Interest Division (SID-3) short course at the Annual Convention of the American Speech-Language and Hearing Association, Miami Beach, FL, Nov.16-18, 2006.

Shrivastav, R. (2006). "How does that sound? Developing new methods for measuring vocal quality." Invited presentation at the University of Cincinnati School of Medicine

Shrivastav, R. (2005). "From vocal quality measurement to perception." Paper presented at the 4th International Workshop on Models and Analysis of Vocal Emissions for Biomedical Applications (MAVEBA), October 29-31, 2005, Firenze, Italy.

Shrivastav, R. (2005). "Do you hear what I hear? Do I hear what I hear? What is "perception" all about?" Paper presented at the 34th Annual Symposium of the Voice Foundation: Care of the Professional Voice, June 1-5, 2005, Philadelphia, PA.

Shrivastav, R. (2005). "Perceptual evaluation of voice quality: Clinical evaluation and research trends." Presented at the annual convention of the Georgia Speech-Language and Hearing Association, Macon, GA, March 18th, 2005.

Shrivastav, R. (2002) "Use of Auditory Models to Quantify Voice Quality," *Presented at the Consensus Meeting on Auditory Perceptual Assessment of Voice Disorders, June 10-11, 2002, Pittsburg, PA.*

Presentations (Contributed):

Holmes, A. E., Shrivastav, R., Sibert, H. & Krause, L. (2009). "Speech Based Optimization of Digital Hearing Devices." Presented at the Annual Meeting of the American Auditory Society, Scottsdale, AZ, March 5-7, 2008.

Patel, S. A. & Shrivastav, R. (2008). "It's not *what* you said, it's *how* you said it! Gender differences in emotion perception." Presented at the Annual Convention of the American Speech-Language and Hearing Association, Nov. 20-22, 2008, Chicago, IL.

Patel, S. A., Cummings, S. & Shrivastav, R. (2008) "Trained to hear: Does experience affect voice quality perception?" Presented at the Annual Convention of the American Speech-Language and Hearing Association, Nov. 20-22, 2008, Chicago, IL.

Shrivastav, R., Eddins, D. A., Patel, S. A. & Cummings, S. (2008). "A rough task: Defining a measure for rough voice quality." Presented at the 156th Meeting of the Acoustical Society of America, Nov. 10-14, 2008, Miami, FL.

Shrivastav, M. N, Shrivastav, R. & Harnsberger, J D. (2008). "Measuring listening effort independent of task difficulty." Presented at the 156th Meeting of the Acoustical Society of America, Nov. 10-14, 2008, Miami, FL.

Bourgeoise, D., Brown, W. S., Shrivastav, R., Rothman, H. B., & Harnsberger, J, D. (2008). "Perceived age in normal and pathological voices." Presented at the 156th Meeting of the Acoustical Society of America, Nov. 10-14, 2008, Miami, FL

Shrivastav, R. & Eddins, D. A. (2008). "A standard approach to measuring voice quality perception for research applications." Presented at the 2008 Meeting on Advances in Quantitative Laryngology (AQL), Oct. 17-18, 2008, Stockholm, Sweden.

Holmes, A. E., Krause, L., Shrivastav, R. & Sibert, H. W. (2008). "Speech based optimization of cochlear implants." Presented at the 2008 Academy of Rehabilitative Audiology Institute, Sept. 10-13, 2008, Portland, OR.

Shrivastav, R. (2008). "Quantifying dysphonic voice quality using auditory processing models: A new solution to an old problem." Presented at the "Choice for Voice 2008", July 10-12, 2008, London, UK.

Patel, S. A. & Shrivastav, R. (2008). "Individual differences in perception of emotions from nonsense speech." Presented at the 154th meeting of the Acoustical Society of America, June 1-5, 2008, Paris, France.

Shrivastav, R., Camacho, A., Patel, S. A., & Eddins, D. A. (2008). "Modeling perception of breathy voice quality in vowels using data obtained in an adaptive matching task." Presented at the 154th meeting of the Acoustical Society of America, June 1-5, 2008, Paris, France.

Troche, M. S., Altmann, L. J. P., Rosenbek, J. C., Shrivastav, R. & Sapienza, C. M. (2008). "Effects of cognitive-linguistic factors on speech and language production in Parkinson's disease." Presented at the 14th Biennial Conference on Motor Speech, March 6-9, 2008, Monterey, CA.

- Silverman, E., Hapner, E., Gorman, S., Lundy, D., Shrivastav, R. & Sapienza, R. (2008). "Combined modality treatment of adductor spasmodic dysphonia." Presented at the 14th Biennial Conference on Motor Speech, March 6-9, 2008, Monterey, CA.
- Cummings, S., Patel, S. A., Eddins, D. A. & Shrivastav, R. (2008) "Refining a reference for perceptual measurement of breathy voice quality." Presented at the 37th Annual Symposium of the Voice Foundation, May 28th – June 1st, 2008, Philadelphia, PA.
- Harnsberger, J. D., Brown, W. S., Shrivastav, R. & Rothman, H. (2008) "Tremor and breathiness in the perception of vocal aging in males." Presented at the 37th Annual Symposium of the Voice Foundation, May 28th – June 1st, 2008, Philadelphia, PA.
- Patel, S. A., & Shrivastav, R. (2008) "Decoding emotions from non nonsense speech." Presented at the 37th Annual Symposium of the Voice Foundation, May 28th – June 1st, 2008, Philadelphia, PA.
- Patel, S. A., Shrivastav, R., Harnsberger, J. D., Shrivastav, M. (2007). "How do you feel today? Detecting Emotions in Speech." Invited presentation at the Annual Convention of the American Speech Language and Hearing Association, Boston, MA, November, 2007.
- Gathercole, E., Holmes, A. & Shrivastav, R. (2007). "Consonant recognition abilities with mobile phones" Presented at "Audiology Now!" Annual convention of the American Academy of Audiology, Charlotte, NC, April 2-5, 2007.
- Dymtrow, E., Holmes, A., Shrivastav, R. & Krause, L. (2007). "Speech based optimization of cochlear implants" Presented at "Audiology Now!" Annual convention of the American Academy of Audiology, Charlotte, NC, April 2-5, 2007.
- Singh, S., Harris, J., Shrivastav, R. & Sapienza, C. (2007). "An improved distance metric for disorders speech evaluation." Presented at the 153rd Meeting of the Acoustical Society of America, 4-8 June, 2007, Salt Lake City, UT.
- Ferguson, S. H., Poore, M. A. & Shrivastav, R. (2007). "Acoustic correlates of talker-reported clear strategies." Presented at the 153rd Meeting of the Acoustical Society of America, 4-8 June, 2007, Salt Lake City, UT.
- Shrivastav, R., Eddins D. A., Patel, S. (2007). "Developing a reference for perceptual measurement of breathy voice quality." Presented at the Voice Foundation's 36th Annual Symposium: Care of the Professional Voice, May 29-June 3, 2007, Philadelphia, PA.
- Harnsberger, J. D., Brown, W. S., Shrivastav, R. & Rothman, H. (2007). "The Male-Female Coalescence Model as Applied to Nonsingers and Trained Singers." Presented at the Voice Foundation's 36th Annual Symposium: Care of the Professional Voice, May 29-June 3, 2007, Philadelphia, PA.
- Shrivastav, R., Camacho, A. & Patel, S. (2006). Evaluating a model to estimate breathiness in vowels." Presented at the 4th Joint Meeting of the Acoustical Society of America & the Acoustical Society of Japan, Honolulu, HI, (Nov. 28-Dec. 02, 2006).
- Silverman, E., Shrivastav, R., Sapienza, C. (2006). "Acoustic source measures for documenting outcomes of combined modality treatment of adductor spasmodic dysphonia." Poster presented at the 151st meeting of the Acoustical Society of America, June 5-9, 2006, Providence, RI.
- Patel, S., Shrivastav, R., & Eddins, D.A. (2006). "Perceptual judgments of breathy voice quality using rating scale, magnitude estimation and matching tasks." Poster presented at the 151st meeting of the Acoustical Society of America, June 5-9, 2006, Providence, RI.

- Landera, M. A., & Shrivastav, R. (2006). "Effects of spectral slope on perceived breathiness in vowels." Poster presented at the 151st meeting of the Acoustical Society of America, June 5-9, 2006, Providence, RI.
- Camacho, A., & Shrivastav, R. (2006). "Predicting changes in breathiness resulting from variations in aspiration noise and open quotient using a loudness model." Poster presented at the 151st meeting of the Acoustical Society of America, June 5-9, 2006, Providence, RI.
- Shrivastav, R. (2006). "Acoustic cues for the perception of roughness in vowels." Paper presented at the 35th Annual Symposium of the Voice Foundation: Care of the Professional Voice, May 31- June 4, 2006, Philadelphia, PA.
- Harnsberger, J. D., Brown, W. S., Rothman, H. B., Morris, R. J., & Shrivastav, R. (2006). "Vocal Aging in Male and Female Singers and Non-singers." Paper presented at the 35th Annual Symposium of the Voice Foundation: Care of the Professional Voice, May 31- June 4, 2006, Philadelphia, PA.
- Boominathan, P., Scherer, R. C., Shrivastav, R., Bellur, R., Kumar, R., & Nagarajan, R. (2006). "Carnatic Singers – Some Aspects." Poster presented at the 35th Annual Symposium of the Voice Foundation: Care of the Professional Voice, May 31- June 4, 2006, Philadelphia, PA.
- Jones, H. N., Shrivastav, R., Plowman, E., & Rosenbek, J. C. (2006). Intensity and fundamental frequency variability before and after two behavioral treatments for aprosodia. Poster presentation at the Speech Motor Control conference, (March 23-26, 2006, Austin, TX).
- Jones, H. N., Shrivastav, R., Plowman, E., & Rosenbek, J. C. (2006). Intensity and fundamental frequency variability before and after two behavioral treatments for aprosodia. Poster presentation at the Association of VA Speech Language Pathologists, May 1-3, 2006, Dallas, TX.
- Logan, K., Jones, K. & Shrivastav, R. (2005). "Duration, Rate, & Phoneme-type Effects on Listeners' Judgments of Prolongations." Poster presented at the annual convention of the American Speech-Language and Hearing Association, November 18-20, 2005, San Diego, CA.
- Cho, K., Harris, J. G. & Shrivastav, R. (2005). "Factors affecting the perception of Korean-accented American English." Poster presented at the 150th Meeting of the Acoustical Society of America, October 18-22, 2005, Minneapolis, MN.
- Shrivastav, R (2005). "Psychophysics and auditory processing models in the study of dysphonic voice quality." Paper presented at the 6th Pan European Voice Conference, Aug. 31 – Sept 3, 2005, London, UK.
- Rothman, H. B. & Shrivastav, R. (2005). "How much vocal movement can we take before we are shaken, rattled and rolled?" Paper presented at the 6th Pan European Voice Conference, Aug. 31 – Sept 3, 2005, London, UK.
- Harnsberger, J.D., Rothman, H., Brown, W.S., Jr., Shrivastav, R. & Hollien, H. (2005). "Cues to vocal aging in older and middle-aged voices." Poster presented at the 34th Annual Symposium of the Voice Foundation: Care of the Professional Voice, June 1-5, 2005, Philadelphia, PA.
- Wingate, J. M., Shrivastav, R., Brown, W.S., Davenport, P. & Sapienza, C. (2005). "Therapy outcomes for professional voice users following combined modality treatment: Final results." Poster presented at the 34th Annual Symposium of the Voice Foundation: Care of the Professional Voice, June 1-5, 2005, Philadelphia, PA
- Shrivastav, R. & Pinero, M. (2005). "Effect of aspiration noise and spectral slope on perceived breathiness in vowels." Poster presented at the 149th meeting of the Acoustical Society of America, May 16-21, 2005, Vancouver, Canada.

- Harnsberger, J., Shrivastav, R. & Skowronski, M. (2005). "The role of psychophysical difference in the discrimination of non-native contrasts." Poster presented at the 149th meeting of the Acoustical Society of America, May 16-21, 2005, Vancouver, Canada.
- Shrivastav, R (2005) "Speech-based optimization of cochlear implant processors." Paper presented at the International Collegium of Rehabilitative Audiology (ICRA), March 16, 2005, Gainesville, FL.
- Goor, M., Shrivastav, R. & Harris, J. G. (2004). *A comparison of three algorithms for estimating aspiration noise in dysphonic voices.* Paper presented at the 148th meeting of the Acoustical Society of America, November 16-21, San Diego, CA.
- Shrivastav, R. & Sapienza, C. M. (2004). *Measurement of voice quality using rating scales: What do ratings tell us?* Paper presented at the 33rd Annual Symposium of the Voice Foundation: Care of the Professional Voice, June 3-7, 2004, Philadelphia, PA.
- Wheeler, K, Sapienza, C. M. & Shrivastav, R. (2004). *The relationship between VHI scores and acoustic measures of disordered voice production.* Paper presented at the 33rd Annual Symposium of the Voice Foundation: Care of the Professional Voice, June 3-7, 2004, Philadelphia, PA.
- Rothman, H. B., Shrivastav, R., Brown, W. S., Harnsberger, J. D. & Hollien, H. (2004). *Fundamental frequency and speaking rate as perceptual cues for aging in male speakers.* Paper presented at the 33rd Annual Symposium of the Voice Foundation: Care of the Professional Voice, June 3-7, 2004, Philadelphia, PA.
- Wingate, J. M., Sapienza, C. M., Shrivastav, R., Brown, W. S. & Davenport, P. (2004). *Treatment outcomes for professional voice users.* Paper presented at the 33rd Annual Symposium of the Voice Foundation: Care of the Professional Voice, June 3-7, 2004, Philadelphia, PA.
- Brown, W. S., Jr. & Shrivastav, R. (2004). *Fundamental frequency and intensity variability in young children's speech produced at comfortable effort level.* Paper presented at the 147th Meeting of the Acoustical Society of America, June 2006, New York, NY.
- Saleem, A. F., Rosenbek, J. C., Davenport, P., Shrivastav, R., Hoffman-Ruddy, B., Okun, M. S. & Sapienza, C. M. (2004) "*Expiratory Muscle Training in Patients with Idiopathic Parkinson's Disease.*" Poster presented at the Conference on Motor Speech, March 2004, Albuquerque, NM.
- Shrivastav, R. (2004). *Voice quality evaluation: What's right and what's wrong?* Paper presented at the Voice Therapy on the Slopes, March 5-9, 2004, Park City, UT.
- Shrivastav, R., & Sapienza, C. (2003). *Difference Limen for Aspiration Noise in Perception of Breathless Voice Quality.* Paper presented at the 145th Meeting of the Acoustical Society of America, April 28 - May 02, 2003, Nashville, TN.
- Rothman, H. B., Brown, W. S., Shrivastav, R., & Hollien, H. (2003). *Temporal Characteristics between Individuals Perceived as Young Adult and Aged Speakers.* Paper presented at the 32nd Annual Symposium of the Voice Foundation: Care of the Professional Voice, June 3-7, 2003, Philadelphia, PA.
- Shrivastav, R., & Sapienza, C. M. (2003). *Modeling variation in loudness over time and its relationship to perceived voice quality: Preliminary findings.* Paper presented at the 32nd Annual Symposium of the Voice Foundation: Care of the Professional Voice, June 3-7, 2003, Philadelphia, PA.
- Pearson, E., Baker, S., Wingate, J., Shrivastav, R., & Sapienza, C. (2003). *Source characteristics of male and female voices extracted from acoustic and aerodynamic signals.* Paper presented at the

- 32nd Annual Symposium of the Voice Foundation: Care of the Professional Voice, June 3-7, 2003, Philadelphia, PA.
- Sapienza, C. M., Shrivastav, R., Bless, D. M., & Glaze, L. (2003). *The perception of voice quality as it relates to the physical appearance and occupation/social profiles of individuals*. Paper presented at the 32nd Annual Symposium of the Voice Foundation: Care of the Professional Voice, June 3-7, 2003, Philadelphia, PA.
- Sapienza, C. M., Rosenbek, J. C., Shrivastav, R., Troche, M., Wingate, J., Saleem, A., & Okun, M. (2003). *Speech timing in Parkinson's disease in on and off medication states*. Paper presented at the 17th Annual symposium on etiology, pathogenesis and treatment of Parkinson's disease and other movement disorders, October, 2003, San Francisco, CA.
- Shrivastav, R., Hollien, H., Brown, W. S., Rothman, H. B., & Harnsberger, J. D. (2003). *Shifting perceptions of age in voice*. Paper presented at the 146th Meeting of the Acoustical Society of America, November, 2003, Austin, TX.
- Shrivastav, R. (2002) "Using an Auditory Model to Predict Perceived Breathiness." *Paper presented at the 3^d International Conference on Voice Physiology and Biomechanics, September 13-16, 2002, Denver, CO.*
- Yamaguchi, H., Behlau, M., Andrews, M. L. & Shrivastav, R (2002). "A Comparison of American, Japanese and Brazilian Raters Using the GRBAS Scale for Perceptual Evaluation of Voice Quality," *Paper presented at the 31st Annual Symposium of the Voice Foundation: Care of the Professional Voice, June 5-9, 2002, Philadelphia, PA.*
- Shrivastav, R. (2002) "The Use of Auditory Modeling in Predicting Perceptual Ratings of Breathy Voice Quality," *Paper presented at the 31st Annual Symposium of the Voice Foundation: Care of the Professional Voice June 5-9, 2002, Philadelphia, PA.*
- Andrews, M.L., Rademacher, J.W., Bohnenkamp, T. & Shrivastav, Rahul (2001) "The Role of Instruction In Controlling The Nature of Vocal Variability Elicited Through Cognitive Cueing," *Paper presented at the 30th Annual Symposium of the Voice Foundation: Care of the Professional Voice, Philadelphia, June 2001.*
- Shrivastav, R. & Forrest, K. (2000) "Speaking Rate and Its Effects on Spectral Measures of Voice," *Poster presented at the ASHA Convention 2000, November 16-19, 2000. Washington D.C.*
- Shrivastav, R., Yamaguchi, H. & Andrews, M.L. (2000) "Voice quality ratings using the GRBAS-scale: Comparison of American and Japanese Listeners," *Paper presented at the XIII Annual Pacific Voice Conference, November 9 - 11, 2000, San Francisco, CA.*
- Yamaguchi, H., Andrews, M.L., & Shrivastav, R. (2000) "Sulcus vocalis: Treatment options and some efficacy results". *Paper presented at the 29th Annual Symposium of the Voice Foundation on the Care of the Professional Voice, June 2000, Philadelphia, PA.*
- Andrews, M.L., Shrivastav, R. & Van Leer, E. (2000) "Cognitive Cueing: Effect of specific cues," *Paper presented at the 29th Annual Symposium of the Voice Foundation on the Care of the Professional Voice, June 2000, Philadelphia, PA.*
- Shrivastav, R. (1999) "Vocal Rise-time and Perception of Hard Glottal Attack," *Paper presented at the meeting of the Acoustical Society of America, Nov 1 - 5, 1999, Columbus, OH.*
- Shrivastav, R., Yamaguchi, H. & Andrews, M.L. (1999) "Effects of stimulability techniques on vocal responses: Implications for assessment and treatment" *Paper presented at the 28th Annual*

Symposium of the Voice Foundation on the Care of the Professional Voice, June 1999, Philadelphia, PA.

Andrews, M.L., Shrivastav, R. & Yamaguchi, H. (1999) "The role of cognitive cueing in eliciting vocal responses." *Paper presented at the 28th Annual Symposium of the Voice Foundation on the Care of the Professional Voice, June 1999, Philadelphia, PA.*

Hui-Su, W. & Shrivastav, R. (1999) "Relationship between conversational range, habitual pitch and total musical range in trained singers" *Paper presented at the 28th Annual Symposium of the Voice Foundation on the Care of the Professional Voice, Philadelphia, June 1999.*

Shrivastav, R. (1998) "Interaction of fundamental frequency and vowel duration in determining vocal quality of hearing impaired speakers". *Paper presented at the "Research Forum, Department of Speech and Hearing Sciences, Indiana University, November 1998, Bloomington, IN.*

Unpublished Theses and Projects:

Shrivastav, R. (2001) "Perceptual Structure of Breathless Voice Quality and Auditory Modeling of its Acoustic Cues." Unpublished Doctoral Dissertation, Indiana University, Bloomington.

Shrivastav, R. (1999) "Vocal Rise-time and Perception of Hard Glottal Attack"
Indiana University, Bloomington.

Shrivastav, R (1997) "Transformation of Speech of the Hearing Impaired," Unpublished Master's Dissertation, submitted to the University of Mysore, Mysore (Kar.) INDIA.

Shrivastav, R (1996) "A Comparison of Distortion Product Otoacoustic Emission (DPOAE) in Children and Adults," Unpublished Independent project, submitted to the University of Mysore, Mysore (Kar.) INDIA.

Patents/Disclosures:

"System and methods for creating reduced test sets used in assessing subject response to stimuli." Patent pending. Inventors: Rahul Shrivastav, Lee Krause, Alice Holmes, Bonny Banarjee. Assignee: University of Florida and Audigence, Inc.

"System and methods of subject classification based on assessed hearing capabilities". Patent pending. Inventors: Rahul Shrivastav, Lee Krause, Alice Holmes, Bonny Banarjee. Assignee: University of Florida and Audigence, Inc.

"Auditory based method for measurement of voice quality," U.S. Provisional Patent Application 60/429,830, University of Florida. Inventor: Rahul Shrivastav.

"Speech Based Optimization of Cochlear Implant Processor." U.S. Patent No. US 7,206,416, issued on April 17, 2007. Inventors: Lee Krause, Rahul Shrivastav, Purvis Bedenbaugh, and Alice E. Holmes. Assigned to the University of Florida Research Foundation, Inc., and Audigence, Inc.

(7 additional disclosures have been filed)

Research Grant Activity (Pending, Ongoing and Completed):

Co-Principal Investigator: "Speech based optimization of hearing devices." Funded by Audigence, Inc. with matching funds from the Florida High Tech Corridor Council (FHTCC).
Awarded: 2008-2010 Total direct costs: \$240,000.00

Principal Investigator: "Measurement of Dysarthric Intelligibility Using Speech Recognition Technology" Submitted to the VA RR&D Merit Review through the Brain Rehabilitation Research Center (BRRRC), Malcom Randall VAMC, Gainesville, FL.
Awarded: 2009-2013. Amount: \$940,788.00

Principal Investigator: "A psychoacoustic approach to dysphonic voice quality perception in vowels." National Institute for Deafness and Other Communication Disorders (NIDCD), R01 award.
Awarded: June 2007 – June 2012 Total Direct Costs: \$1,250,000

Investigator: "A new treatment for aprosodia caused by stroke." University of Florida Research Opportunity Program. (PI: Rosenbek)
Awarded: May, 2007 – April 2009 Total Direct Costs: \$79,979

Investigator: "Strength training patients with PSP for dysphagia" Society for Progressive Supranuclear Palsy. (PI: Sapienza)
Awarded: May 2007 – April 2008 Total Direct Costs: \$94,327

Co-Principal Investigator: "Intelligibility in dysarthria using speech recognition". Research Opportunity Fund, University of Florida.
Awarded: June 2006 – May 2008 Amount: \$65,000

Principal Investigator: "Auditory modeling of vowels with breathy voice quality." National Institute for Deafness and Other Communication Disorders (NIDCD), R21 Exploratory/Developmental Research Grant Award
Awarded: 2003 – 2006 Total Direct Costs: \$250,000

Co-Investigator: "Expiratory Muscle Strength Training in Patients with Parkinson's Disease." Submitted to the National Institute for Deafness and Other Communication Disorders (NIDCD). (PI: Sapienza)
Awarded: 2004 – 2007 Total Direct Costs: \$275,000.

Investigator: "Expiratory Muscle Strength Training in Patients with Parkinson's Disease." Submitted to the VA Rehabilitation Research and Development Service (RR&D). (PI: Sapienza)
Awarded Total Direct Costs: \$650,000

Clinical Service Delivery:

August 1997 – January 1999 Clinical Fellow, Indiana University Voice Clinic
Evaluation and Management of patients with voice disorders.

January 1999 – December 1999 Clinical Fellow, Indiana University Speech Clinic
Established the "Accent Modification Program" for non-native speakers of American English

Service

2009 - 2012: Voice Committee, International Association of Logopedics and Phoniatrics (IALP).

2008: Chair for two sessions at the 156th meeting of the Acoustical Society of America, Miami, November 10-14, 2008. (One session of "Speech Communication" and one for "Physiological and Psychological Acoustics")

2008 – Present: Inter-society Activities Committee, Acoustical Society of America.

2008: Search Committee for Chair of the Department of Communicative Disorders, College of Public Health and Health Professions, University of Florida.

2008 – 2009: Research Advisory Committee, College of Liberal Arts and Sciences, University of Florida,
2008 – 2009: Faculty Travel Committee, College of Liberal Arts and Sciences, University of Florida.
2007-2010: Speech Technical Committee, Acoustical Society of America.
2007 – Present: Chair, Doctoral recruitment committee, Department of Communication Science and Disorders, University of Florida,
2006 – Present: Member of the Executive Board, Florida Chapter of the Acoustical Society of America.
2004 – Present: Technical Advisory Board, Audigence, Inc.
2002 – Present: Chair, Technology Committee, Department of Communication Science and Disorders, University of Florida.
2007: ASHA Convention Program committee for Voice, Resonance and Alaryngeal Speech
2007: ASHA Convention Program committee for Speech Science
2007 – 2010: Speech Communication Technical Committee, Acoustical Society of America.
2007 – 2008: Faculty search committee, Department of Communication Sciences and Disorders.
2004 -2005: University of Florida Faculty Senate
2003 – 2004: “Faculty Performance Review Committee” at the Dept. of Communication Science and Disorders, University of Florida.
2002 – 2005: “Student Complaints Committee” at the Dept. of Communication Science and Disorders, University of Florida.

Editorial board/Reviewer:

Editorial board, Journal of Voice (2006- Present)

Adhoc reviewer for:

Journal of Speech-Language and Hearing Research
Journal of the Acoustical Society of America
Journal of Rehabilitation Research and Development
Journal of Pediatric Oto-rhinolaryngology
Journal of VA RR&D

Ad-hoc reviewer for NIH/NIDCD Small Grants Program

Ad-hoc reviewer for NIH R01

Ad-hoc reviewer for NIH LRP

Honors and Awards:

2009: Colonel Allan R. & Margaret G. Crow Term Professorship, University of Florida

2008: Nominated for University of Florida Research Foundation Professorship

2007: Nominated as Outstanding Teacher by CLAS Scholars

2007: Honorary mention for best poster award at the Voice Foundation Symposium, Philadelphia, PA, June 2007.

2002: Nominated for the Esther L. Kinsley Ph.D. Dissertation Award, Indiana University, Bloomington, March (2002).

2000: Fellowship from the American Speech-Language and Hearing Association to attend the "Science and Research Career Forum" at the American Speech-Language and Hearing Association (ASHA) Convention in Washington D.C., November 2000.

1999: Nominated for the "Lieber Memorial Teaching Associate Award," awarded by Indiana University (1999).

1993-1997: Government of India scholarship for outstanding students – Recipient of award for four academic years (1993-94, 1994-95, 1995-96, 1996-97).

Professional Affiliations

Member, Acoustical Society of America

Member, American Speech-Language and Hearing Association

Member, The Voice Foundation

Courses Taught:

Indiana University

S111 – Phonetics of American Speech

University of Florida

SPA3011 – Speech Acoustics

SPA4250 – Introduction to Speech Disorders

SPA4014 – Neural Bases of Communication

SPA4104 – Speech Anatomy and Physiology

SPA6904 – Independent study (Digital signal processing for CSD)

SPA6904 – Independent study (Speech Production)

SPA6904 – Independent study (Instrumentation for Speech Research)