

BHARATH CHANDRASEKARAN

Department of Communication Sciences and Disorders
School of Health and Rehabilitation Sciences
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EDUCATION

- 08-10 Postdoctoral Fellowship, *Auditory Neuroscience/Communication Neural Systems Research Group*, Northwestern University
- 04-08 PhD, *Integrative Neuroscience*, Purdue University, West Lafayette
- 02-04 MS, *Speech Science*, Purdue University, West Lafayette
- 98-02 BS, *Speech, Language, and Hearing Sciences*, Sri Ramachandra University, Chennai

ACADEMIC APPOINTMENTS

- 18- Professor, *Department of Communication Science and Disorders*, University of Pittsburgh
- 15- Associate Professor, *Department of Communication Sciences and Disorders*, The University of Texas at Austin
- 15- Associate Professor (by courtesy), *Department of Linguistics*, The University of Texas at Austin
- 15- Associate Professor (by courtesy), *Department of Psychology*, The University of Texas at Austin
- 12-15 Assistant Professor (by courtesy), *Department of Linguistics*, The University of Texas at Austin
- 11-15 Assistant Professor (by courtesy), *Department of Psychology*, The University of Texas at Austin
- 10-15 Assistant Professor, *Department of Communication Sciences and Disorders*, The University of Texas at Austin

AFFILIATIONS

University of Pittsburgh

- 18- Coordinator, *Brain and Auditory Sciences Laboratories (BASL)*

The University of Texas at Austin

- 17- Coordinator, *Brain and Behavioral Sciences Laboratory*, <https://moody.utexas.edu/research/behavioral-science-lab>
- 17- Co-director and co-founder, *Multimodal neuroimaging initiative*, <http://sites.utexas.edu/multimodal/>
- 15- Member, *UT Clinically Applied Rehabilitation Engineering (CARE)*, <https://faculty.engr.utexas.edu/utcare/home>
- 13- Member, *Institute for Mental Health Research*

- 13- Member, *Cognitive Neuroscience*
- 11- Member, *Institute for Neuroscience*
- 11- Affiliated Researcher, *Imaging Research Center*

AWARDS/HONORS

- 2018 Early Career Award, The Society for Neurobiology of Language.
Awarded to honor researchers whose high quality of scientific work and academic citizenship exemplify the ideals of the Society.
- 2016 Early Career Award, The Psychonomics Society.
Awarded to researchers who have made significant contributions to scientific psychology early in their careers
- 2016 Graduate School Mentoring Fellowship, The University of Texas at Austin
Awarded to faculty members at The University of Texas at Austin to aid in recruiting outstanding new graduate students that add to the diversity of the campus
- 2015 Regents Outstanding Teaching Award, The University of Texas Systems, \$20,000.
*Awarded to faculty members at The University of Texas System's eight academic and six health institutions who have demonstrated **extraordinary classroom performance and innovation in undergraduate instruction**, the Regents' Outstanding Teaching Awards are the Board of Regents' highest honor.*
- 2015 Editor's award for the most meritorious article appearing in the *Journal of Speech, Language, and Hearing Research* (Hearing).
An article selected for an Editor's Award is the one that the Editor and Associate Editor feel meets the highest quality standards in research design, presentation, and impact for a given year.
- 2013 Dean's Fellowship, College of Communication, The University of Texas at Austin
- 2008 Graduate Student Award for Outstanding Teaching, Purdue University
- 2007 Graduate Student Award for Outstanding Teaching, Purdue University
- 2007 New Century Scholars Program Doctoral Scholarship, American Speech-Language Hearing Foundation
- 2006 Runner-up, Burton D. Morgan Entrepreneurial Competition, Purdue University
- 2006 Dissertation Research Grant, Purdue Research Foundation, Purdue University
- 2004 Student Travel Award, American Speech-Language-Hearing Association
- 2004 Research in Higher Education Mentorship Award, American Speech-Language-Hearing Association
- 2002 Fredrick N. Andrews Fellowship, Purdue University
- 2001 Young Scientist Award (Audiology), Indian Speech and Hearing Association Conference, Mumbai
- 2001 Best Paper in Learning Disabilities, Indian Speech and Hearing Association Conference, Mumbai
- 2001 Best student paper, Madras Regional Chapter of Acoustic Society of America, National Symposium on Acoustics, Vellore
- 2001 Asai Thambi Award for Outstanding Academic Performance (00-01), Sri Ramachandra Medical College and Research Institute, Chennai, India
- 2000 Asai Thambi Award for Outstanding Academic Performance (99-00), Sri Ramachandra Medical College and Research Institute, Chennai, India
- 1999 Asai Thambi Award for Outstanding Academic Performance (98-99), Sri Ramachandra Medical College and Research Institute, Chennai, India

GRANTS

FUNDED (Extramural)

- 09/18-03/19 Chandrasekaran, (PI). *Supplement to Online Modulation of Auditory Brainstem Responses to Speech*. National Institute for Deafness and Communication Disorders) 1R01DC013315-05S1: \$380,233. *This In this supplement, we will examine neural entrainment during speech processing in individuals with Alzheimer's Disease/ Alzheimer's Disease (AD) and AD-Related Dementias (ADRD). We posit that distinct patterns of brain rhythms across the task and conditions will systematically relate to speech comprehension deficits.*
- 07/17-07/22 Chandrasekaran, (PI). *Neural Systems in Auditory and Speech Categorization*. National Institute for Deafness and Communication Disorders) 1R01DC013315A1: \$2,773,940. *This proposal will examine the neurobiological mechanisms underlying the representation, acquisition, and automatization of speech signals using complementary invasive and non-invasive neuroimaging methods.*
- 07/17-06/21 Wang, X (PI). *Targeted Neuroplasticity Training*. DoD/DARPA (N66001-4008-17-2-4008): Sub-award \$1,003,234. Role: Sub-award PI. *The goal of this multi-site project is to examine the extent to which peripheral nerve stimulation can enhance neuroplasticity related to language learning in adulthood.*
- 04/14-03/19 Chandrasekaran, (PI). *Online Modulation of Auditory Brainstem Responses to Speech*. National Institute for Deafness and Communication Disorders) 1R01DC013315A1: \$2,449,482. *The goal of this project is to examine the extent to which representation of speech in the brainstem is modulated by contextual information in adults.*
- 08/14-07/19 Wong, P.C.M. (PI). *Microcephaly Genes, Language, and Auditory Processing*. Research Grants Council (Hong Kong): HK\$ 670,389. Role: Collaborator. *The goal of this project is to examine the role of genetic variation on the neural processing of speech signals*

FUNDED (Intramural)

- 2016 Chandrasekaran, (Co-Director, Co-founder). Office of the Vice President for Research, the University of Texas at Austin *Multimodal Neuroimaging Initiative*: \$175,000. *The proposal coalesced support from 25 faculty across five colleges towards the purchase of a functional near infrared spectroscopy (fNIRS) device, a safe, portable, inexpensive functional neuroimaging technology that can be seamlessly combined with accessible neurotechnologies at UT Austin.*
- 2014 Chandrasekaran, (PI). The University of Texas at Austin, Summer Research Award
- 2013 Chandrasekaran, (PI). The University of Texas at Austin, Research grant award: \$7000.
- 2013 Chandrasekaran, (PI). Moody College of Communication, Grant preparation award: \$5000.
- 2012 Chandrasekaran, (PI). Moody College of Communication, Grant preparation award: \$5000.
- 2011 Chandrasekaran, (PI). Moody College of Communication, Faculty Summer Research Award
- 2011-13 Chandrasekaran, (co-PI). Longhorn Innovation Fund (LIFT) The University of Texas at Austin *CLARITY- Technology for enhancing oral communication*: \$100,000. *The goal of this project is to develop an interactive multimedia online resource for international TAs and instructors that will use audio and video technology to enhance oral communication skills, based on research developed by UT Speech Science researchers. The*

online resource will feature innovative use of audio CAPTCHA (Completely Automated Public Turing test to tell Computers and Humans Apart) technology to provide real-world feedback on speech intelligibility to users.

FUNDED (Training)

- 2019-21 Dial, H (PI). F32DC016812 *Investigating neural signatures of rehabilitation in primary progressive aphasia*: \$170,094. Role: Co-sponsor
- 2017-19 Kirsten Smayda (PI). F31 AG052308-02 *Training for the Enhancement of Speech-In-Noise Processing Ability in Older Adults*: \$80,000. Role: Mentor.
- 2017 Elise LeBovidge (PI). Cross-language differences in the encoding of vowel formant cues. Undergraduate Research Fellowship, The University of Texas at Austin. \$1000. Role: Mentor
- 2016 Emily Sun (PI). How much acoustic detail is processed when people are under the pressure to perform well? Phonemic identification under performance pressure. Undergraduate Research Fellowship, The University of Texas at Austin. \$1000. Role: Mentor
- 2016 Yuan Han (PI). Emotion Effects on Speech Category Learning. Undergraduate Research Fellowship, The University of Texas at Austin. \$1000. Role: Mentor
- 2015 Whitney Barlow (PI): Neurobiological impact of music experience in adolescence. Undergraduate Research Fellowship, The University of Texas at Austin, \$1000
- 2015 Arielle Glick (PI). Effect of age on reflexive auditory learning. Undergraduate Research Fellowship, The University of Texas at Austin. \$1000. Role: Mentor
- 2015 Lexi Smith (PI). Categorization training for non-native accented word recognition. Undergraduate Research Fellowship, The University of Texas at Austin. \$1000. Role: Mentor
- 2013 Rachel Tessmer (PI). Optimizing Auditory Training for Second Language Learning. Undergraduate Research Fellowship, The University of Texas at Austin. \$1000. Role: Mentor
- 2012 Ayesha Dadabhoy (PI). Optimizing second language learning through manipulation of trial-by-trial feedback. Undergraduate Research Fellowship, The University of Texas at Austin. \$1000. Role: Mentor
- 2012 Sarah Evens (PI). Quantifying the benefits of visual cues on native and non-native speech perception in varying noise levels. Undergraduate Research Fellowship, The University of Texas at Austin. \$1000. Role: Mentor
- 2012 Kathryn Curry (PI). Maximizing Second Language Learning through Trial-By- Trial Feedback. Undergraduate Research Fellowship, The University of Texas at Austin. \$1000. Role: Mentor
- 2011- Harris, Robert A., Harris, Kristen M (co-PIs). *Pre-Doctoral Training in Interdisciplinary Neuroscience*. National Institute on Drug Abuse. (2T32DA018926). Role: Preceptor.

FUNDED (Equipment)

- 2017 Llanos, F., Henry, M., Hamilton, L., & Chandrasekaran, B. (co-PIs). NVIDIA Corporation Tital XP GPU grant, \$3600.

NOT FUNDED

- Pending Sarkar, A & Chandrasekaran, B (Co-PIs). Advanced Statistical Methods for Studying Neural Responses to Naturalistic Auditory Stimuli. *Catalyst Grant*, College of Natural Sciences, The University of Texas at Austin, \$50,000.
- Pending Henry, M and Chandrasekaran, B (Co-PIs). *Optimizing Speech-language Training for Individuals with Aphasia via Neural Modulation*. Owens Medical Foundation: \$100,000.
- Pending Zinszer, B (PI). *Continuous speech processing in normal aging and primary progressive aphasia*. NIH NIDCD R21. Role: Co-Investigator

COURSES TAUGHT

Courses

Neuroscience of Communication (Graduate), Language and the Brain (Undergraduate); Fundamentals of Speech Science (Undergraduate); Neuroscience of Speech Perception (Ph.D. seminar); Research Methods in Communication Sciences and Disorders (graduate); Speech perception: theory and clinical aspects (graduate); Individual differences in speech, language, and hearing (Ph.D. seminar); Animal Physiology (undergraduate).

Course Sections

Principles of Cognitive Neuroscience (Auditory and speech perception); Principles of Neuroscience II (Auditory brainstem); Topics in Second Language Acquisition (Individual differences in second language acquisition, neuroscience of second language acquisition); Fundamentals of cognition (Fundamentals of Language); Neurolinguistics (Cognitive neuroscience methods); Introduction to cognitive science (Speech perception); Advanced phonetics (Neural correlates of intelligible speech); Auditory evoked potentials (Auditory late cortical potentials); Language and the brain (Gesture and speech production); Anatomy and Physiology for speech and hearing (Inner ear anatomy and physiology); Neural systems (Auditory physiology).

ARTICLES (PEER-REVIEWED)

* indicates first author is (or was) a graduate student, or post-doctoral research associate in my lab

* [61] Reetzke, R., Xie, Z., Llanos, F., & **Chandrasekaran, B.** (2018). Tracing the Trajectory of Sensory Plasticity across Different Stages of Speech Learning in Adulthood. *Current Biology*, 28(9), 1419-1427.

* [60] Xie, Z., Reetzke, R., & **Chandrasekaran, B.** (2018). Taking Attention Away from the Auditory Modality: Context-dependent Effects on Early Sensory Encoding of Speech. *Neuroscience*, 384, 64-75.

* [59] Feng, G., Gan, Z., Wang, S., Wong, P., & **Chandrasekaran, B.** (2018). Task-General and Acoustic-Invariant Neural Representation of Speech Categories in the Human Brain. *Cerebral Cortex*, 28(9), 3241–3254.

[58] Deng, Z., **Chandrasekaran, B.**, Wang, S., & Wong, P. C. (2018). Training-induced brain activation and functional connectivity differentiate multi-talker and single-talker speech training. *Neurobiology of Learning and Memory*, 151, 1-9.

* [57] Smayda, K. E., Worthy, D. A., & **Chandrasekaran, B.** (2018). Better late than never (or early): Music training in late childhood is associated with enhanced decision-making. *Psychology of Music*, 46(5), 734-748

* [56] Llanos, F., Xie, Z., & **Chandrasekaran, B.** (2017). Hidden Markov Modeling of Frequency-Following Responses to Mandarin Lexical Tones. *Journal of Neuroscience Methods*, 291, 101-112

* [55] Yi, H., Xie, Z., Reetzke, R., Dimakis, A.G., & **Chandrasekaran, B.** (2017). Vowel decoding from single-trial speech-evoked electrophysiological responses: A feature-based machine learning approach. *Brain and Behavior*. 2017;e00665.

* [54] Xie, Z.*, Reetzke, R.*, & **Chandrasekaran, B.** (2017). Stability and plasticity in neural encoding of linguistically-relevant pitch patterns. *Journal of Neurophysiology*, 117, 1407-1422. (* co-first authors)

* [53] Lam, B.P.W., Xie, Z., Tessmer, R., & **Chandrasekaran, B.** (2017). The Downside of Higher Susceptibility to Lexical Influences: Selectively Poorer Speech Perception in Noise. *Journal of Speech, Language, and Hearing Research*, 60, 1662-1673, doi: 10.1044/2017_JSLHR-H-16-0133.

[52] Lau, J.C.Y., Wong, P., & **Chandrasekaran, B.** (2017). Context-dependent plasticity in the subcortical encoding of linguistic pitch patterns. *Journal of Neurophysiology*, 117(2), 594-603.

* [51] Van Engen, K. J., Xie, Z., & **Chandrasekaran, B.** (2017). Audiovisual sentence recognition not predicted by susceptibility to the McGurk effect. *Attention, Perception, & Psychophysics*, 79(2), 396-403.

* [50] Yi, H., Maddox, W.T., Mumford, J.A., & **Chandrasekaran, B.** (2016). The role of corticostriatal systems in speech category learning. *Cerebral Cortex*, 26(4), 1409-1420

* [49] Yi, H., & **Chandrasekaran, B.** (2016). Auditory categories with separable decision boundaries are learned faster with full feedback than minimal feedback. *Journal of the Acoustical Society of America*, 140(2), 1332-1335

* [48] Reetzke, R., Lam, B.P.W., Xie, Z., Sheng, L., & **Chandrasekaran, B.** (2016). Effect of Simultaneous Bilingualism on Speech Intelligibility across Different Masker Types, Modalities, and Signal-to-Noise Ratios in School-Age Children. *PLoS ONE*, 11 (12): e0168048. doi: 10.1371/journal.pone.0168048.

[47] **Chandrasekaran, B.**, Yi, H., Smayda, K., & Maddox, W. T. (2016). Effect of explicit dimension instruction on speech category learning. *Attention, Perception, & Psychophysics*, 78, 566-582

- * [46] Smayda, K.E., Van Engen, K.J., Maddox, W.T., & **Chandrasekaran, B.** (2016). Audio-Visual and Meaningful Semantic Context Enhancements in Older and Younger Adults. *PLoS ONE*, 11(3), e0152773
- [45] Deng, Z., **Chandrasekaran, B.**, Wang, S., & Wong, P.C.M. (2016) Resting-state low-frequency fluctuations reflect individual differences in spoken language learning. *Cortex*, 63-78
- * [44] Reetzke, R., Maddox, W. T., & **Chandrasekaran, B.** (2016). The Role of Age and Executive Function in Auditory Category Learning. *Journal of Experimental Child Psychology*, 142, 48-65
- [43] Francis, A.L., MacPherson, M.K., **Chandrasekaran, B.**, & Alvar, A.M. (2016). Autonomic nervous system responses during perception of masked speech may reflect constructs other than subjective listening effort. *Frontiers in Psychology*, 7, doi: 10.3389/fpsyg.2016.00263
- [42] **Chandrasekaran, B.**, Yi, H., Blanco, N., McGeary, J. E., & Maddox, W. T. (2015). Enhanced procedural learning of speech sound categories in a genetic variant of *FOXP2*. *Journal of Neuroscience*, 35(20), 7808-7812.
- * [41] Xie, Z., Maddox, W. T., McGeary, J. E., & **Chandrasekaran, B.** (2015). The C957T polymorphism in the dopamine receptor D2 (DRD2) gene modulates domain-general category learning. *Journal of Neurophysiology*, 113(9), 3281-3290.
- * [40] Smayda, K., **Chandrasekaran, B.**, Maddox, W. T. (2015). Enhanced cognitive and perceptual processing: A computational basis for the musician advantage in speech learning. *Frontiers in Psychology*, 6, 682. doi: 10.3398/fpsyg.2015.00682
- [39] **Chandrasekaran, B.**, Van Engen, K., Xie, Z., Beevers, C. G., & Maddox, W. T. (2015). Influence of depressive symptoms on speech perception in adverse listening conditions. *Cognition & Emotion*, 29 (5), 900-909
- * [38] Xie, Z., Maddox, W. T., Knopik, V. S., McGeary, J. E., & **Chandrasekaran, B.** (2015). Dopamine receptor D4 (DRD4) gene modulates the influence of informational masking on speech recognition. *Neuropsychologia*, 67, 121-131.
- * [37] Xie, Z., Yi, H., & **Chandrasekaran, B.** (2014). Nonnative audiovisual speech perception in noise: Dissociable effects of the speaker and listener. *PLoS ONE*, 9(12): e114439.
- * [36] Van Engen, K., Phelps, J. B., Smiljanic, R., & **Chandrasekaran, B.** (2014). Enhancing speech intelligibility: Interactions among context, modality, speech style, and masker. *Journal of Speech Language and Hearing Research*, 57(5), 1908-1918.
- [35] **Chandrasekaran, B.**, Koslov, S., & Maddox, W. T. (2014). Toward a dual-learning systems model of speech category learning. *Frontiers in Psychology*, 5(825), 1-17.
- * [34] Yi, H., Smiljanic, R., & **Chandrasekaran, B.** (2014). The neural processing of foreign-accented speech and its relationship to listener bias. *Frontiers in Human Neuroscience*, 8:768. doi:10.3389/fnhum.2014.00768.

- [33] Maddox, W. T., **Chandrasekaran, B.**, Smayda, K., Koslov, S., Yi, H. G., & Beevers, C. G. (2014). Elevated depressive symptoms enhance reflexive but not reflective auditory category learning. *Cortex*, *58*, 186-198.
- [32] **Chandrasekaran, B.**, Yi, H., & Maddox, W. T. (2014). Dual-learning systems during speech category learning. *Psychonomic Bulletin & Review*, *21*(2), 488-495.
- [31] **Chandrasekaran, B.**, Skoe, E., & Kraus, N. (2014). An integrative model of subcortical auditory plasticity. *Brain Topography*, *27*(4), 539-552.
- [30] Skoe, E., & **Chandrasekaran, B.** (2014). The layering of auditory experiences in driving experience-dependent subcortical plasticity. *Hearing Research*, *311*, 36-48.
- [29] Maddox, W. T. & **Chandrasekaran, B.** (2014). Tests of a dual-systems model of speech category learning. *Bilingualism: Language and Cognition*, *17*(4), 709-728.
- [28] Gilbert, R. C., **Chandrasekaran, B.**, & Smiljanic, R. (2014). Recognition memory in noise for speech of varying intelligibility. *The Journal of the Acoustical Society of America*, *135*(1), 389-399.
- [27] Skoe, E., **Chandrasekaran, B.**, Spitzer, E. R., Wong, P. C. M., & Kraus, N. (2014). Human brainstem plasticity: The interaction of stimulus probability and auditory learning. *Neurobiology of Learning and Memory*, *109*, 82-93.
- [26] Maddox, W. T., **Chandrasekaran, B.**, Smayda, K., & Yi, H. G. (2013). Dual systems of speech category learning across the lifespan. *Psychology and Aging*, *28*(4), 1042-1056.
- * [25] Yi, H., Phelps, J. E. B., Smiljanic, R., & **Chandrasekaran, B.** (2013). Reduced efficiency of audiovisual integration for nonnative speech. *The Journal of the Acoustical Society of America*, *134*(5), EL387-EL393.
- [24] Ress, D., & **Chandrasekaran, B.** (2013). Tonotopic organization in the depth of human inferior colliculus. *Frontiers in Human Neuroscience*, *7*. doi:10.3389/fnhum.2013.00586.
- [23] **Chandrasekaran, B.**, Kraus, N & Wong, P.C.M. (2012) Human inferior colliculus activity relates to individual differences in language learning. *Journal of Neurophysiology*, *107*(5), 1325-1336.
- [22] Wong, P. C. M., **Chandrasekaran, B.**, & Zheng, J. (2012). The derived allele of ASPM is associated with lexical tone perception. *PloS One*, *7*(4), e34243. doi:10.1371/journal.pone.0034243.
- * [21] Van Engen, K., **Chandrasekaran, B.**, & Smiljanic, R. (2012). Effects of speech clarity on recognition memory for spoken sentences. *PloS One*, *7*(9), e43753. doi:10.1371/journal.pone.0043753
- [20] **Chandrasekaran, B.**, Chan H.D., & Wong, P.C.M. (2011). Neural processing of what and who information during spoken language processing. *Journal of Cognitive Neuroscience*, *23*(10), 2690-2700.

- [19] Wong, F. C. K., **Chandrasekaran, B.**, Garibaldi, K., & Wong, P. C. M. (2011). White matter anisotropy in the ventral language pathway predicts sound-to-word learning success. *The Journal of Neuroscience*, 31(24), 8780-8785.
- [18] Hornickel, J., **Chandrasekaran, B.**, Zecker, S., Kraus, N. (2011) Auditory brainstem measures predict reading and speech-in-noise perception in school-aged children. *Behavioral Brain Research*, 216, 597-605.
- [17] Kraus, N., **Chandrasekaran, B.** (2010) Music training for the development of auditory skills. *Nature Reviews Neuroscience* 11, 599-605.
- [16] **Chandrasekaran, B.**, Sampath, P.D. & Wong P.C.M (2010). Individual variability in cue-weighting and lexical tone learning. *The Journal of Acoustical Society of America*, 128(1), 456-465.
- [15] **Chandrasekaran, B.**, Kraus, N. (2010) Music, noise-exclusion, and learning. *Music Perception*, 27(4), 297-306.
- [14] Anderson, S., Skoe, E., **Chandrasekaran, B.**, Kraus, N. (2010) Neural timing is linked to speech perception in noise. *Journal of Neuroscience*, 30(14), 4922-4926.
- [13] **Chandrasekaran, B.**, & Kraus, N. (2010). The scalp-recorded brainstem response to speech: Neural origins and plasticity. *Psychophysiology*, 47, 236-246.
- [12] Anderson, S., **Chandrasekaran, B.**, Yi, H., Kraus, N. (2010) Cortical-evoked potentials reflect speech-in-noise perception in children. *European Journal of Neuroscience*, 32, 1407-1413.
- [11] Anderson, S., Skoe, E., **Chandrasekaran, B.**, Zecker, S., & Kraus, N. (2010). Brainstem correlates of speech-in-noise perception in children. *Hearing research*, 270(1), 151-157.
- [10] **Chandrasekaran, B.**, Hornickel, J. M., Skoe, E., Nicol, T., & Kraus, N. (2009). Context-dependent encoding in the human auditory brainstem relates to hearing speech in noise: Implications for developmental dyslexia. *Neuron*, 64(3), 311-319.
- [9] **Chandrasekaran, B.**, Krishnan, A., & Gandour, J. T. (2009). Relative influence of musical and linguistic experience on early cortical processing of pitch contours. *Brain and Language*, 108(1), 1-9.
- [8] **Chandrasekaran, B.**, Krishnan, A., & Gandour, J. T. (2009). Sensory versus phonetic processing of linguistic pitch as reflected by the mismatch negativity. *Ear and Hearing*, 30(5), 552-558.
- [7] Wong, P.C.M., Perrachione, T.K., Gunasekera, G., **Chandrasekaran, B.** (2009) Communication disorders in speakers of tone languages: Etiological bases and clinical considerations. *Seminars in Speech and Language*, 30, 162-173.

- [6] **Chandrasekaran, B.**, Krishnan, A., & Gandour, J. T. (2007). Experience-dependent neural plasticity is sensitive to shape of pitch contours. *Neuroreport*, 18(18), 1963-1967.
- [5] **Chandrasekaran, B.**, Gandour, J. T., & Krishnan, A. (2007). Neuroplasticity in the processing of pitch dimensions: A multidimensional scaling analysis of the mismatch negativity. *Restorative Neurology and Neuroscience* 25 (3/4), 19-210.
- [4] **Chandrasekaran, B.**, Krishnan, A., & Gandour, J. T. (2007). Mismatch negativity to pitch contours is influenced by language experience. *Brain Research*, 1128(1), 148-156.
- [3] Kemmerer, D., **Chandrasekaran, B.**, & Tranel, D. (2007). A case of impaired verbalization but preserved gesticulation of motion events. *Cognitive Neuropsychology*, 24(1), 70-114.
- [2] Huber, J. E., & **Chandrasekaran, B.** (2006). Effects of increasing sound pressure level on lip and jaw movement parameters and consistency in young adults. *Journal of Speech Language and Hearing Research*, 49(6), 1368-1379.
- [1] Huber, J. E., **Chandrasekaran, B.**, & Wolstencroft, J. J. (2005). Changes to respiratory mechanisms during speech as a result of different cues to increase loudness. *Journal of Applied Physiology*, 98(6), 2177-2184.

ARTICLES (UNDER REVIEW)

* indicates first author is (or was) a graduate student, visiting scholar or post-doctoral research associate in my lab

*Feng, G., Yi, H., & **Chandrasekaran, B.** (in revision). The role of the human auditory corticostriatal network in supervised speech learning.

*Xie, Z., Reetzke, R., & **Chandrasekaran, B.** (submitted). Taking attention away from the auditory modality: Context-dependent effects on early sensory representation of speech.

*Xie, Z., Beevers, C., & **Chandrasekaran, B.** (submitted). A speech perception deficit in major depressive disorder.

BOOK CHAPTERS [PEER-REVIEWED]

[5] **Chandrasekaran, B.**, Llanos, F., & Tessmer, R. (2018). Subcortical representation of speech sounds. *Springer Handbook of Auditory Research*. Fay R, Popper A, eds. Springer Science+Business Media, Berlin, Germany

[4] Reetzke, R., Xie, Z., & **Chandrasekaran, B.** (2017). Neurobiology of Literacy and Reading Disorders. *The Frequency-following Response: A Window into Human Communication*. Springer Handbook of Auditory Research. Fay R, Popper A, eds. Springer Science+Business Media, Berlin, Germany

[3] **Chandrasekaran, B.**, Xie, Z., & Reetzke, R. (2016). Chapter 6. Music training and neural processing of speech: a critical review of the literature In A. Agwuele & A. Lotto (Eds.), *Essays in Speech Processes: Language Production and Perception*. Sheffield: Equinox Publishing.

[2] **Chandrasekaran, B.**, & Kraus, N. (2012). Biological factors contributing to reading ability: Subcortical auditory function. In Benasich, A. and Fitch, R. (Eds.), *Developmental dyslexia: Early precursors, neurobiological markers and biological substrates*. (pp. 83-98). Baltimore, MD: Brookes.

[1] **Chandrasekaran, B.**, Gandour, J.T., & Krishnan, A. (2009). Neuroplasticity in the preattentive processing of linguistic pitch: Evidence from cross---language and cross---domain studies. *Festschrift in linguistics, applied linguistics, language and literature in honor of Prof. Udom Warotamasikkhadit* (pp. 68-86). Bangkok: Saha Thamnik.

PROCEEDINGS [PEER-REVIEWED]

Tessmer, R., & **Chandrasekaran, B.** (2016). Stability and plasticity in the neural representation of linguistic pitch patterns. *Proc. Tonal Aspects of Languages 2016*, 1-5.

Asteris A. Kyrillidis A. G. Dimakis H. Yi, **Chandrasekaran, B.** Stay on path: PCA along graph paths M. *International Conference on Machine Learning (ICML)*, Lille, France, 2015

Liu, C., & **Chandrasekaran, B.** (2013). Effects of phonological training on tone perception for English listeners. *Proceedings of Meetings on Acoustics*, 19, 060057.

Sheft, S., Smayda, K., Shafiro, V., Maddox, W. T., & **Chandrasekaran, B.** (2013). Effect of musical training on static and dynamic measures of spectral-pattern discrimination. *Proceedings of Meetings on Acoustics*, 19, 050025.

Smiljanic, R., & **Chandrasekaran, B.** (2013). Processing speech of varying intelligibility. *Proceedings of Meetings on Acoustics*, 19, 060102.

Smiljanic, R., Sheft, S., **Chandrasekaran, B.**, & Shafiro, V. (2013). Effect of speech clarity on perception of interrupted meaningful and anomalous sentences. *Proceedings of Meetings on Acoustics*, 19.

Chandrasekaran, B., & Wong, P. C. M. (2011). Neural processing of linguistic pitch contours: individual variability and experience-dependent plasticity. *Proceedings of the 17th International Congress of Phonetic Sciences*, August 2011, Hong Kong.

Wong, F.C.K., **Chandrasekaran, B.**, Garibaldi, K., & Wong, P.C.M. (2011). Acquisition of foreign phonetic contrasts mediated by white matter connectivity. *Proceedings of the 17th International Congress of Phonetic Sciences*, August 2011, Hong Kong.

Chandrasekaran, B., & Verma, N. K. (2001). Effects of jaw movement and probe insertion depth on external ear resonance measurements. *Journal of Acoustical Society of India*, 29(1), 454-460.

INVITED LECTURES AND PRESENTATIONS

2018 *Tracing the trajectory of sensory plasticity*, University of Pittsburgh, Pittsburgh

- 2018 *Neural systems underlying speech categorization*, Diehl-a-Palooza: A celebration of the career of Randy Diehl, The University of Texas at Austin, Austin
- 2018 *Cognitive-sensory influences on the subcortical representation of speech signals*, Hearing Research Center (HRC) Seminar Series, Boston University, Boston
- 2018 *The 'when', 'where', and 'how' of speech category representation in the human brain*, Auditory Cognitive Neuroscience Society meeting, Tampa
- 2017 *Corticostriatal learning systems in auditory and speech categorization*, Callier Center, University of Texas at Dallas, Dallas
- 2017 *Neurobiological constraints on speech learning*, All India Institute of Speech and Hearing, Mysuru
- 2017 *Editorial workshop: Publishing in ASHA journals*, All India Institute of Speech and Hearing, Mysuru
- 2017 *Editorial workshop: Publishing in ASHA journals*, Dr. S. R. Chandrasekhar Institute of Speech And Hearing, Bengaluru
- 2017 *Editorial workshop: Publishing in ASHA journals*, Sri Ramachandra University, Chennai.
- 2017 *Neural systems in auditory and speech categorization*. Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig
- 2017 *Methods in the measurement of the frequency-following response*, Laboratoire Parole et Langage, Aix en Provence
- 2017 *Stability and Plasticity in the neural representation of speech categories*, Auditory Cognitive Neuroscience Society Conference, University of Florida, Gainesville
- 2016 *Neurobiological constraints on speech learning: Individual differences and plasticity*, Invited talk at the technical session on Second Language Speech Learning and Education, Acoustical Society of America/Acoustical Society of Japan joint meeting, Honolulu
- 2016 *Neurobiological constraints on speech learning: Individual differences and plasticity*, Workshop on Cognition and Neuroscience, Nanyang Technological University, Singapore
- 2016 *Midbrain plasticity to speech signals: Effect of Language Experience*, Plenary talk at the 5th International Symposium on Tonal Aspects of Language, Buffalo
- 2016 *Plasticity in the human auditory midbrain: A machine learning approach*, University of Connecticut, Storrs
- 2016 *Dual-learning systems in speech perception*, Haskins Laboratories, New Haven
- 2016 *IC what you are saying: midbrain decoding of speech sounds*, Invited talk at the Auditory Cognitive Neuroscience Society Conference, University of Arizona, Tucson
- 2016 *Listening and learning in individuals with elevated depressive symptoms*, Invited talk at Seton Grand Rounds in Psychiatry, Austin
- 2016 *Language Learning as an Adult: Perspectives from Neuroscience*, Invited talk for College of Liberal Arts Family Weekend, The University of Texas at Austin, Austin
- 2015 *Experience-dependent plasticity in speech perception*, Invited talk at Clinically Applied Rehabilitation Engineering (CARE) initiative, The University of Texas at Austin,
- 2015 *Experience-dependent plasticity in the processing of speech signals*, Invited talk at Texas Acoustics, Mechanical Engineering Department, The University of Texas at Austin, Austin
- 2015 *Corticostriatal learning systems in audition*, Invited talk at the Neurobiology Lecture Series. The University of Texas at San Antonio, San Antonio

- 2015 *Enhanced procedural learning of speech sound categories in a genetic variant of FOXP2*. Auditory Cognitive Neuroscience Society Conference, University of Arizona, Tucson
- 2014 *Corticostrital contributions to speech category learning*, Invited talk at the Stanford Cognitive & Systems Neuroscience Laboratory, Stanford University, Palo Alto
- 2014 *Tuning the brain: effects of music training on audition*, Department of Speech and Hearing Science, Arizona State University
- 2014 *Genetic influences on dual processing modes of auditory category learning*, Chinese University of Hong Kong, Hong Kong
- 2013 *Dissociable category learning systems in musicians*, Cognitive Science Seminar Series, University of Memphis, Memphis
- 2012 *Individual variability and neural plasticity in speech sound learning*, Keynote address at the inauguration of the PhD program in neurolinguistics, University of Lisbon, Portugal
- 2012 *High-resolution imaging of human midbrain function*, Invited talk at the Neurobiology Lecture Series, University of Texas at San Antonio
- 2011 *Human auditory midbrain plasticity to speech*, Invited talk at the Center for Language Sciences, Penn State University, State College
- 2011 *Human auditory brainstem encoding of speech*. Invited talk at the Cog-Neuro Consolider Seminar Series, Barcelona
- 2011 *Auditory midbrain plasticity to linguistic pitch patterns*. Nanyang Technological Institute, Singapore
- 2011 *Neural processing of linguistic pitch contours: Individual variability and experience-dependent plasticity*, plenary talk at The Psycholinguistic Representation of Tone conference, Hong Kong
- 2010 *Individual differences and experience-dependent plasticity in the neural processing of linguistic pitch*, plenary talk at the Workshop on Prosody, Leiden, Netherlands
- 2010 *Current Perspectives on the Neural Bases of Speech Perception*, Invited talk at The Indian Speech Hearing Association Conference, Bengaluru
- 2008 *The auditory brainstem response to speech: Neural origins and plasticity*, Language and Cognition Colloquium Series, Northwestern University, Evanston
- 2006 *Experience-dependent plasticity in the processing of linguistically relevant pitch*, Department of Psychology, University of Lancaster, Lancaster
- 2006 *Mismatch negativity: clinical utility*, Department of Speech, Language, and Hearing Sciences, Sri Ramachandra Medical College, Chennai

CONFERENCE: ORGANIZED SYMPOSIUMS/WORKSHOPS

Chandrasekaran, B. (2017, February) *Introduction to fNIRS workshop*. Hands-on training offered by NIRx at The University of Texas at Austin. Role: Organizer

Chandrasekaran, B. (2017, February) *Multimodal neuroimaging with fNIRS and EEG*. Hands-on training organized by the SoundBrain Lab at The University of Texas at Austin. Role: Organizer

Chandrasekaran, B. (2017). *Research Blitz in Communication Sciences and Disorders*, The University of Texas at Austin, Texas. Role: Organizer

Chandrasekaran, B. (2016, October) *Second Language Acquisition Symposium: Advances in Behavioral and Neural Research*. Meeting organized by the SoundBrain Lab at The University of Texas at Austin. Role: Organizer

Chandrasekaran, B. (2016, October) *Bilingual Mind, Brain & Child Development symposium*. Meeting organized at The University of Texas at Austin. Role: Discussant

Chandrasekaran, B. (2016). *Research Blitz in Communication Sciences and Disorders*, The University of Texas at Austin, Texas. Role: Organizer

Chandrasekaran, B. (2015). *Research Blitz in Communication Sciences and Disorders*, The University of Texas at Austin, Texas. Role: Organizer

Chandrasekaran, B. (2014). *Research Blitz in Communication Sciences and Disorders*, The University of Texas at Austin, Texas. Role: Organizer

Chandrasekaran, B., and Smiljanic R. (2013, July). *Variability in speech intelligibility: Behavioral and neural perspectives*. Meeting of the Acoustical Society of America, Montreal

Chandrasekaran, B. & Abrams, D. (2013, February) *Short-term and long-term brainstem plasticity*. Young Investigator Symposium, Annual Meeting of the Association for Research in Otolaryngology, Baltimore

Chandrasekaran, B. (2013). *Research Blitz in Communication Sciences and Disorders*, The University of Texas at Austin, Texas. Role: Organizer

Chandrasekaran, B. (2012). *Research Blitz in Communication Sciences and Disorders*, The University of Texas at Austin, Texas. Role: Organizer

CONFERENCE: POSTERS AND PODIUM PRESENTATIONS

Dial, H. R., Zinszer, B. D., **Chandrasekaran, B.**, & Henry, M. L. (October 2018). Neural encoding of phonetic features relates to phonological processing in PPA. Poster submitted to the 56th Annual Meeting of the Academy of Aphasia, Montreal, Canada.

Dial, H. R., Zinszer, B. D., **Chandrasekaran, B.**, & Henry, M. L. (August 2018). Cortical entrainment of continuous speech envelope is preserved in non-fluent PPA. Poster presented at the 10th Annual Meeting of the Society for the Neurobiology of Language, Québec City, Québec, Canada.

Llanos, F., McHaney, J. R., Leonard, M. K., Schuerman, W. L., Yi, H. G., & **Chandrasekaran, B.** (August 2018). Transcutaneous vagus nerve stimulation enhances non-native speech categorization. Poster presented at the 10th Annual Meeting of the Society for the Neurobiology of Language, Québec City, Québec, Canada.

Yi, H. G., Leonard, M. K., **Chandrasekaran, B.**, Nourski, K. V., Howard III, M. A., & Chang, E. F. (August 2018). Learning novel speech sounds reorganizes acoustic representations in the human superior temporal gyrus. Slide presentation at the 10th Annual Meeting of the Society for the Neurobiology of Language, Québec City, Québec, Canada.

- Zinszer, B. D., Haye, T. A, Athey, A., & **Chandrasekaran, B.** (August 2018). Lexical tone classification in frontal and posterior regions using fNIRS. Poster presented at the 10th Annual Meeting of the Society for the Neurobiology of Language, Québec City, Québec, Canada.
- Zinszer, B. D., Haye, T. A, Athey, A., & **Chandrasekaran, B.** (June 2018). Quality of frequency-following response to speech sounds linked with left prefrontal hemodynamic activity using fNIRS+EEG. Talk to be presented at the 2nd International Neuroergonomics Conference, Philadelphia, PA.
- Xie, Z., & Chandrasekaran, B. (June 2018). Dividing attention to the visual modality impairs the processing of continuous speech. Poster to be presented at the 24th Annual Meeting of the Organization for Human Brain Mapping, Singapore.
- McHaney, J. R., Zinszer, B. D., Smayda, K. E., **Chandrasekaran, B.** (March 2018). Effect of listening environment on cortical entrainment to continuous speech in older adults. Poster presented at the Cognitive Neuroscience Society 25th Annual Meeting, Boston, MA.
- Llanos, F., Reetzke, R., Sakthi, M., & **Chandrasekaran, B.** (February 2018). Neurofeedback mediated modulation of the frequency following response. Poster presented at the 41st Annual Midwinter Meeting of the Association for Research in Otolaryngology, San Diego, CA.
- Llanos, F. & **Chandrasekaran, B.** (February 2018). Machine learning decoding of listener identity from frequency following responses. Poster presented at the 41st Annual Midwinter Meeting of the Association for Research in Otolaryngology, San Diego, CA.
- Reetzke, R., & **Chandrasekaran, B.** (November 2017). Music Training Enhances Speech-in-Speech Perception in Adolescents. Poster presented at the 80th annual ASHA Convention, Los Angeles, CA.
- Reetzke, R., Xie, Z., & **Chandrasekaran, B.** (September 2017). Effects of selective attention and language experience on cortical entrainment to continuous speech. Poster presented at the 6th International Conference on Auditory Cortex, Banff, Alberta, Canada.
- Yi, H. G., Feng, G., Leonard, M. K., Wang, S., Wong, P. C. M., & **Chandrasekaran, B.** (September 2017). Corticostriatal learning systems in auditory categorization. Poster presented at the 6th International Conference on Auditory Cortex, Banff, Alberta, Canada.
- Feng, G., Yi, H. G., & **Chandrasekaran, B.** (September 2017). Corticostriatal circuitry associated with speech representational plasticity in the superior temporal gyrus. Poster presented at the 6th International Conference on Auditory Cortex, Banff, Alberta, Canada.
- Llanos, F., Xie, Z., & **Chandrasekaran, B.** (June 2017). Decoding linguistically-relevant pitch patterns from frequency-following responses using hidden Markov models. Poster presented at the 173rd Meeting of the Acoustical Society of America, Boston, MA.
- Smayda, K., & **Chandrasekaran, B.** (May 2017). Music Training for the Enhancement of Speech-In-Noise Processing in Older Adults. Presented at the annual University of Texas at Austin Leadership Luncheon, Austin, TX.

Reetzke, R., Xie, Z., & **Chandrasekaran, B.** (February 2017). Effects of Language Experience and Long-term Training on the Neural Weighting and Categorical Perception of Pitch Dimensions. Podium presentation at the Association for Research in Otolaryngology 2017 Midwinter Meeting, Baltimore, MD.

Xie, Z., & **Chandrasekaran, B.** (February 2017). Taking attention away from the auditory modality: subcortical representation of speech signals during inattentive deafness. Poster presented at the Association for Research in Otolaryngology 2017 Midwinter Meeting, Baltimore, MD.

Smayda, K. E., Feng, G., Cooper, J., & **Chandrasekaran, B.** (January 2017). Music Training for the Enhancement of Speech-In-Noise Processing in Older Adults. Poster presented at the Dallas Aging and Cognition Conference, Dallas, TX.

Smayda, K., Worthy, D. A., & **Chandrasekaran, B.** (July 2016). Better late than never (or early): Late music lessons confer advantages in decision-making. Presented at the 14th International Conference for Music Perception and Cognition, San Francisco, CA.

Chandrasekaran, B., Reetzke, R., Yi, H. G., Roeder, J., Xie, Z., & Maddox, W. T. (May 2016). Experience-dependent plasticity in the neural weighting of pitch dimensions: A machine learning approach. Poster presented at the 171st Meeting of the Acoustical Society of America, Salt Lake City, UT.

Tessmer, R., Atagi, E., Bent, T., & **Chandrasekaran, B.** (May 2016). Categorization training for non-native accented word recognition. Poster presented at the 171st Meeting of the Acoustical Society of America, Salt Lake City, UT.

Yi, H. G., Tessmer, R., & **Chandrasekaran, B.** (May 2016). Optimizing Lexical Learning through Manipulation of Phonological Training Environment. Poster presented at the 171st Meeting of the Acoustical Society of America, Salt Lake City, UT.

Han, Y. C., Koslov, S., Maddox, W. T., & **Chandrasekaran, B.** (April 2016). Motivation and Speech Category Learning: A Dual-Learning System Approach. Poster presented at the Cognitive Neuroscience Society Annual Meeting, New York, NY.

Xie, Z., Reetzke, R., Yi, H., Maddox, W. T., Dimakis, A. G., & **Chandrasekaran, B.** (February 2016). Subcortical decoding of stimulus, group experience, and individuality. Poster presented at the Association for Research in Otolaryngology 2016 Midwinter Meeting, San Diego, CA.

Reetzke, R., Xie, Z., Yi, H., Maddox, W. T., Dimakis, A. G., & **Chandrasekaran, B.** (February 2016). Dynamics of short-term experience-dependent plasticity in human subcortical auditory function. Podium presentation at the Association for Research in Otolaryngology 2016 Midwinter Meeting, San Diego, CA.

Chandrasekaran, B., Xie, Z., Yi, H., & Reetzke, R. (February 2016). Midbrain-based decoding of vowel and speaker information in humans. Poster presented at the Association for Research in Otolaryngology 2016 Midwinter Meeting, San Diego, CA.

- Yi, H. Koslov, S. R., Maddox, W. T., & **Chandrasekaran, B.** (February 2016). Mapping the auditory corticostriatal pathway in humans using diffusion tensor imaging. Poster presented at the Association for Research in Otolaryngology 2016 Midwinter Meeting, San Diego, CA.
- Yi, H. Koslov, S. R., Maddox, W. T., & **Chandrasekaran, B.** (October 2015). Corticostriatal white matter connectivity predicts speech category learning success. Poster presented at the 7th Annual Meeting of the Society for the Neurobiology of Language, Chicago, IL.
- Yi, H., Xie, Z., Reetzke, R., & **Chandrasekaran, B.** (October 2015). Corticollicular influences on subcortical encoding of speech sounds. Poster presented at the 7th Annual Meeting of the Society for the Neurobiology of Language, Chicago, IL.
- Asteris, M., Kyrillidis, A., Dimakis, A., Yi, H., & **Chandrasekaran, B.** (July 2015). Stay on path: PCA along graph paths. Podium presentation at the 32nd International Conference on Machine Learning, Lille, France.
- Koslov, S., Blanco, N. J., Maddox, W. T., & **Chandrasekaran, B.** (July 2015). Using real-time computational modeling to individually optimize tone category learning. Poster presented at the Annual Meeting of the Cognitive Science Society, Pasadena, CA.
- Xie, Z., & **Chandrasekaran, B.** (May 2015). Intra-subject variability in frequency-following responses and cortical event-related responses to Mandarin tones. Talk presented at the 169th Meeting of the Acoustical Society of America, Pittsburgh, PA.
- Xie, Z., Maddox, W. T., & **Chandrasekaran, B.** (May 2015). Elevated depressive symptoms associate with an emotion-general deficit in speech perception at a cocktail party. Poster presented at the 169th Meeting of the Acoustical Society of America, Pittsburgh, PA.
- Reetzke, R., Maddox, W. T., & **Chandrasekaran, B.** (May 2015). The role of age and executive function in auditory category learning. Poster presented at the 169th Meeting of the Acoustical Society of America, Pittsburgh, PA.
- Tsao, N., Tessmer, R., Reetzke, R., **Chandrasekaran, B.**, & Maddox, W. T. (April 2015). The development of auditory category learning: A computational modeling approach. Poster presented at the Longhorn Research Bazaar, Austin, TX.
- Smith, L., Glick, A., Reetzke, R., **Chandrasekaran, B.**, & Maddox, W. T. (April 2015). Auditory category learning across learning across development. Poster presented at the Undergraduate Research Forum and the Longhorn Research Bazaar.
- Smayda, K., Rao, G., **Chandrasekaran, B.**, & Maddox, W. T. (2014, November). *Explicit attention to pitch direction enhances Mandarin tone learning.* Poster presented at the Psychonomics Annual Meeting, Long Beach, CA.
- Yi, H., Maddox, W. T., Knopik, V. S., McGeary, J. E., & **Chandrasekaran, B.** (2014, October). *Genetic variation in catechol-O-methyl transferase (COMT) activity impacts speech category learning.* Poster session presented at the meeting of the Acoustical Society of America, Indianapolis, IL.
- Yi, H., Maddox W. T., Mumford, J. A., & **Chandrasekaran, B.** (2014, November). *The role of corticostriatal learning systems in speech categorization.* Poster session presented at the meeting of the Psychonomic Society, Long Beach, CA.

- Chandrasekaran, B.**, Yi, H., & Maddox, W. T. (2014, August). *Corticostriatal contributions to feedback-dependent speech category learning*. Poster presented at the Society for Neurobiology of Language Conference, Amsterdam, Netherlands.
- Xie, Z., Maddox, W. T., Knopik, V. S., McGeary, J. E., & **Chandrasekaran, B.** (2014, October). *Individual differences in speech perception in noise: A neurocognitive genetic study*. Poster presented at the 168th Meeting of the Acoustical Society of America, Indianapolis, IN.
- Tessmer, R., Tsao, N., Reetzke, R., **Chandrasekaran, B.**, & Sheng, L. (2014, April). *Audiovisual integration and speech perception in bilingual speakers*. Poster presented at the Undergraduate Research Forum, Austin, TX.
- Gilbert, R., Victor, N., **Chandrasekaran, B.**, and Smiljanic, R. (2013, November). *Intelligibility of speaking styles elicited by various instructions*. Poster session presented at the 166th meeting of the Acoustical Society of America, San Francisco, CA.
- Smayda, K., **Chandrasekaran, B.**, Yi, H., & Maddox, W.T. (2013, October). *Dual Systems of artificial and natural tone categorization across the lifespan*. Poster presented at the Aging and Speech Communication Conference, Bloomington, IN.
- Yi, H., Smiljanic, R., & **Chandrasekaran, B.** (2013, June). *Natural variations in speech intelligibility: An fMRI study*. 19th Annual Meeting of the Organization for Human Brain Mapping: Seattle, WA.
- Chandrasekaran, B.** (2013, February). *Human brainstem plasticity: Effects of auditory context and training*. Podium presentation at the Annual Meeting of the Association for Research in Otolaryngology, Baltimore.
- Chandrasekaran, B.** (2013, January). *Optimizing auditory category learning: Incorporating a dual process model of visual category learning in the auditory domain*. Podium presentation at the Auditory Cognitive Neuroscience Society Conference, Tucson.
- Smayda, K., **Chandrasekaran, B.**, Yi, H.G., & Maddox, W.T. (2013, February). *Reflexive- and reflective-system learning of auditory categories across the lifespan*. Poster presented at the Dallas Aging and Cognition Conference, Dallas, TX.
- Yi, H., Smiljanic, R., & **Chandrasekaran, B.** (2013, January). *Natural variations in speech intelligibility: An fMRI study*. Poster presented at the Institute for Neuroscience 17th Annual Symposium, Austin, TX.
- Beitz, J., Van Engen, K., Smiljanic, R. & **Chandrasekaran, B.** (2012, October). *Effects of visual cue enhancement on speech intelligibility for clear and conversational speech in noise*. Poster presented at the Acoustical Society of America Biannual Conference: Speech Perception Poster Session, Kansas City, MO.
- Chandrasekaran, B.**, Yi, H., & Maddox, W. T. (2012, October). *Delayed feedback disrupts optimal strategies during foreign speech sound learning*. Poster presented at the 164th Meeting of the Acoustical Society of America, Kansas City, MO.
- Yi, H., **Chandrasekaran, B.**, & Maddox, W. T. (2012, October). *Optimized speech sound category training bootstraps foreign word learning*. Poster presented at 164th Meeting of the Acoustical Society of America, Kansas City, MO.

- Gilbert, R., Van Engen, K., Smiljanic, R., & **Chandrasekaran, B.** (2012, October). *Recognition memory in noise for speech of varying intelligibility*. Poster presented at 164th Meeting of the Acoustical Society of America, Kansas City, MO
- Van Engen, K. & **Chandrasekaran, B.** (2012, October). *Sentence recognition as a function of the number of talkers in competing multi-talker babble*. Poster presented at 164th Meeting of the Acoustical Society of America, Kansas City, MO
- Gilbert, R., Van Engen, K., **Chandrasekaran, B.**, & Smiljanic, R. (2012, April). *Effects of speech clarity on recognition memory for spoken sentences in quiet and in noise*. Poster presented at the Graduate Research Showcase, UT.
- Beitz, J. & **Chandrasekaran, B.** (2012, April). "Tone Category Learning in Children and Adults." Poster presented at the Longhorn Research Bazaar, University of Texas at Austin, Austin, TX.
- Chandrasekaran, B.**, Koslov, S., Luther, E. & Ress, D., (2012, April). *High-resolution imaging reveals tonotopic organization in human auditory midbrain*. Poster presented at the Cognitive Neuroscience Society Meeting, Chicago.
- Chandrasekaran, B.**, Skoe, E., Wong, P. C. M., & Kraus, N. (2011, November) *Human brainstem plasticity to linguistic pitch patterns: Distinct effects of auditory context and training*. Neurobiology of Language Conference, Annapolis MD
- Chandrasekaran, B.**, Kraus, N., & Wong, P. C. M. (2011, November) *Human inferior colliculus response to pitch patterns predicts auditory learning success*. Neurobiology of Language Conference, Annapolis MD
- Wong, F.C.K., **Chandrasekaran, B.**, Garibaldi, K., & Wong, P. C. M. (2011, August). *Acquisition of foreign phonetic contrasts mediated by white matter connectivity*. The 17th International Congress of Phonetic Sciences, Hong Kong.
- Chandrasekaran, B.**, Garibaldi, K., Novis, S & Wong, P.C.M., (2010, July). *Cortical and Subcortical contributions to Complex Auditory Learning*. Poster presented at the Organization for Human Brain Mapping Conference, Barcelona.
- Chandrasekaran, B.**, Hornickel, J., Skoe, E., Nicol, T., & Kraus, N (2009, June). *Context-dependent encoding in the human auditory brainstem*. Poster presented at the Neurobiology of Language Conference, Chicago.
- Chandrasekaran, B.**, Gandour, J. T., & Krishnan, A. (2009, June). *Neural integration of lexical and indexical information in spoken language processing*. Poster presented at the Organization for Human Brain Mapping Conference, San Francisco.
- Chandrasekaran, B.**, Gandour, J. T., & Krishnan, A. (2008, February). *Influence of musical and linguistic experience on early cortical processing of pitch contours*. Podium presentation at the Annual Meeting of the Association for Research in Otolaryngology, Baltimore.
- Chandrasekaran, B.**, Gandour, J. T., & Krishnan, A. (2008, June). *Tuning in to tone: Experience-dependent plasticity in the early cortical processing of linguistic pitch contours*. Poster presented at the Neurosciences and Music - III Disorders and Plasticity Conference, Montreal.
- Chandrasekaran, B.**, Gandour, J. T., & Krishnan, A. (2008, February). *Influence of musical and linguistic experience on early cortical processing of pitch contours*. Poster presented at the Annual Meeting of the Association for Research in Otolaryngology, Phoenix.

Chandrasekaran, B., Gandour, J. T., & Krishnan, A. (2007, June). *Neuroplasticity in the processing of pitch dimensions: A multidimensional scaling analysis of the mismatch negativity*. Poster presented at the Organization for Human Brain Mapping Conference, Chicago.

Chandrasekaran, B., Gandour, J. T., & Krishnan, A. (2007, April). *Cross-language differences in preattentive processing of pitch dimensions as revealed by multidimensional scaling analysis of the mismatch negativity*. Poster presented at the Cognitive Neuroscience Society Annual Meeting, New York.

Chandrasekaran, B., Krishnan, A., & Gandour, J. T. (2006, April). *Language experience modulates preattentive pitch processing: A cross-language study*. Poster presented at the 4th Conference on Mismatch Negativity (MMN) and its Clinical and Scientific Applications, Cambridge, U.K.

Chandrasekaran, B., Krishnan, A., Swaminathan, J., & Gandour, J. T. (2006, February). *Language-dependent preattentive pitch processing in young adults*. Podium presentation at the Annual Meeting of the Association for Research in Otolaryngology, Baltimore.

Chandrasekaran, B., Kemmerer, D., & Tranel, D. (2005, April). *A case of impaired verbalization but preserved gesticulation of motion events: Investigating the language-specific representation of space from a neuropsychological perspective*. Poster presented at the Cognitive Neuroscience Society Annual Conference, San Francisco.

Chandrasekaran, B. & Huber, J. E. (2004, November). *Young adults' respiratory patterns and speech variability in noise*. Podium presentation at the American Speech-Language-Hearing Association Conference, Philadelphia.

MEDIA COVERAGE

USA Today. (2018). Laurel or Yanny? Experts tell us why 'The Dress' for ears is driving us crazy. [press release]. Retrieved from <https://www.usatoday.com/story/tech/talkingtech/2018/05/16/yanny-laurel-audio-experts-blue-black-dress-explain/614622002/>

The Washington Post. (2018). Trending: Yanny or Laurel? Internet argues over mysterious audio clip. [press release].

Retrieved from https://www.washingtonpost.com/express/wp/2018/05/15/trending-yanny-or-laurel-internet-argues-over-mysterious-audio-clip/?noredirect=on&utm_term=.27d048c7e4d3

KVUE News. (2018). UT researchers test Yanny vs. Laurel in sound lab. [press release]. Retrieved from <https://www.kvue.com/article/news/local/ut-researchers-test-yanny-vs-laurel-in-sound-lab/269-552793306>

The Verge. (2018). Yanny or Laurel? The science behind the audio version of The Dress. [press release]. Retrieved from <https://www.theverge.com/2018/5/15/17358136/yanny-laurel-the-dress-audio-illusion-frequency-sound-perception>

ABC News. (2018). 'Yanny' versus 'laurel': An expert weighs in on the debate. [press release]. Retrieved from <https://abcnews.go.com/US/yanny-versus-laurel-expert-weighs-debate/story?id=55189477>

CNet. (2018). Yanny or Laurel: Science doesn't quite know why you hear one or the other. [press release]. Retrieved from <https://www.cnet.com/news/yanny-laurel-audio-hearing-science-behind-why/>

- The Daily Texan. (2017). Later musical training linked to improved decision-making skills [Press release]. Retrieved from <http://www.dailytexanonline.com/2017/09/29/late-musical-training-linked-to-improved-decision-making-skills>
- KMFA. (2017). The Benefits of Learning to Play Music, Even As We Get Older. [radio interview]. Retrieved from <http://www.kmfa.org/episodes/2342-the-benefits-of-learning-to-play-music-even-as-we-get-older>
- KMFA Stories. (2015). Music and the Aging Brain: New Research at UT-Austin Tests Cognitive Benefits of Music in Older Adults. [Press release]. Retrieved from <http://www.kmfa.org/pages/746-music-and-the-aging-brain-new-research-at-ut-austin-tests-cognitive-benefits-of-music-in-older-adults>
- The Telegraph (2015). Can genes predict foreign language learning skills? [Press release]. Retrieved from <http://www.telegraph.co.uk/education/educationopinion/11695356/Can-genes-predict-foreign-language-learning-skills.html>
- UT News. (2015). Foreign language learning in adults associated with genetic variation [Press release]. Retrieved from <http://news.utexas.edu/2015/06/04/genetic-variation-associated-with-learning-a-foreign-speech>
- Technology.org (2015). Genetic Variation Essential in Language Learning during Adulthood [Press release]. Retrieved from <http://www.technology.org/2015/06/08/genetic-variation-essential-in-language-learning-during-adulthood/>
- Moody College of Communication. (2014). Training the brain [Feature]. Retrieved from <http://moody.utexas.edu/features/training-brain>
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EDITORIAL

- 2019- Editor-in-Chief, *Journal of Speech, Language, and Hearing Research (Speech)*
2016-18 Editor, *Journal of Speech, Language, and Hearing Research (Speech)*
2015-16 Associate Editor, *Journal of Speech, Language, and Hearing Research (Speech)*
2014 Guest Associate Editor, *Journal of Speech, Language, and Hearing Research (Hearing)*

JOURNAL REVIEWER

- Attention, Perception, and Psychophysics, 2018
- Attention, Perception, and Psychophysics, 2018
- Proceedings of the National Academy of Sciences, 2018
- Journal of Neuroscience, 2017
- Current Biology, 2017
- Psychophysiology, 2016
- Applied Psycholinguistics, 2016
- Journal of Neuroscience, 2015
- PLOS One, 2015
- Cortex, 2015
- Cognition, 2015
- Journal of Experimental Psychology: Human Perception and Performance, 2015
- Journal of Experimental Child Psychology, 2015
- Journal of Neurolinguistics, 2015
- Journal of Speech, Language, and Hearing Sciences, 2014
- Journal of the Acoustical Society of America, 2014
- Journal of Neurolinguistics, 2014
- Speech and Communication, 2014
- Ear and Hearing, 2013
- Applied Psycholinguistics, 2013
- Perspectives on Hearing and Hearing Disorders: Research and Diagnostics, 2013
- Proceedings in the National Academy of Sciences, USA, 2012
- Journal of Cognitive Neuroscience, 2012
- Ear and Hearing, 2012
- Neuropsychologia, 2012
- Human Brain Mapping, 2012
- Journal of Experimental Psychology: Learning, Memory, and Cognition, 2012
- Human Brain Mapping, 2011
- Hearing Research, 2011
- Applied Psycholinguistics, 2011
- Ear and Hearing, 2011
- Cerebral Cortex, 2011
- Journal of Cognitive Neuroscience, 2011
- PLOS ONE, 2010
- Hearing Research, 2010
- Brain and Language, 2010
- Neuron, 2010
- Journal of Neuroscience, 2009
- American Journal of Audiology, 2009
- European Journal of Neuroscience, 2009
- Cortex, 2009
- Proceedings in the National Academy of Sciences, USA, 2009
- Journal of Cognitive Neuroscience, 2008
- Brain, 2008

- Cerebral Cortex, 2008
- Journal of Acoustical Society of America, 2008
- Brain and Language, 2008
- Cognition, 2007
- Brain and Language, 2007
- Brain Research, 2006
- Brain and Language, 2006
- Journal of Experimental Psychology, 2006

ADHOC GRANT REVIEWER

- Reviewer, Special emphasis panel for NIH RFA-AG-18-017: Central Neural Mechanisms of Age-Related Hearing Loss (R01) (March), 2018
- Reviewer, NIH Language & Communication Panel (November), 2017
- Reviewer, Clinical Research Grant, American Speech-Language and Hearing Association, 2017
- Reviewer, New Century Scholars Research Grant, American Speech-Language and Hearing Association, 2017
- Reviewer, NIH Autism Centers of Excellence (ACE) Network Panel (March), 2017
- Reviewer, Students Preparing for Academic Research Careers (SPARC) Award, 2017
- Reviewer, NIH Language & Communication Panel (June), 2016
- Reviewer, American Speech-Language and Hearing Association Audiology/Hearing Science Travel Award (ARTA), 2016
- Reviewer, Undergraduate Research Funds (URF), The University of Texas at Austin, 2016
- Reviewer, Canada Research Chairs, 2015
- Reviewer, Rehabilitation Research and Development Scientific Merit Review Board, 2014
- Reviewer, National Science Foundation (Cognition, Action, Perception), 2013
- Reviewer, National Science Foundation (Linguistics), 2012
- Reviewer, National Science Foundation (Linguistics), 2011
- Reviewer, Research Grants Council (RGC) of Hong Kong, 2011
- Reviewer, Research Grants Council (RGC) of Hong Kong, 2011
- Reviewer, National Science Foundation (Linguistics), 2010
- Reviewer, National Science Foundation (Cognitive Neuroscience), 2009

EXTERNAL EXAMINER

- University of Memphis
- Tsing Hua University

PROFESSIONAL MEMBERSHIPS

- Society for the Neurobiology of Language
- Acoustical Society of America
- The Psychonomic Society
- Association for Research in Otolaryngology

- Cognitive Neuroscience Society
- Organization for Human Brain Mapping

ADMINISTRATION/SERVICE

Department

- Director, PhD program in Communication Sciences and Disorders, 2014-17
- Member, Speech-Language Pathology Graduate Admissions Committee, 2016-present
- Chair, Doctoral Studies Committee in Communication Sciences and Disorders, 2014-2017
- Member, Search Committee for Lecturer, Department of Communication Sciences and Disorders, 2017
- Member, Search Committee for Chair of the Department of Communication Sciences and Disorders, 2017
- Chair, Doctoral Program Curricular Revision, 2015
- Member, Program Coordinator II Search Committee, 2015
- Member, Undergraduate Curricular Revision Committee, 2014
- Member, Speech-Language Pathology Graduate Admissions Committee, 2011 onwards
- Member, Faculty Search Committee, Department of Communication Sciences and Disorders, 2012
- Member, Faculty Search Committee, Department of Linguistics, 2012
- Member, Faculty Search Committee, Communication Sciences and Disorders, 2011

College

- Member, Principle Investigators Committee, 2016-present
- Member, Global Engagement Committee, 2016-present
- Member, Ad-hoc Workgroup on Advancing Research: to explore ways that our college can strengthen and strategically expand our extramural research and supporting infrastructure, College of Communication, 2015- present
- Additional charge: Recommendations regarding research related space and infrastructure
- Member, Faculty Research Committee, 2015-present
- Member, Internationalization Committee, 2013-2015
- Member, Faculty Research Committee, 2013-2015

University

- Chair, Search Committee for Associate Vice President for Research (Research Support and Compliance), 2017.
- Panelist, Panel on promotion and tenure for Assistant Professors, New faculty orientation, UT Austin, 2017
- Co-director, Multimodal neuroimaging initiative (<http://sites.utexas.edu/multimodal/>)
- Reviewer, Undergraduate Research Fellowship, The University of Texas at Austin
- Member, Pilot Research Grant Committee, Imaging Research Center, The University of Texas at Austin

MENTORSHIP/RESEARCH SUPERVISION

Faculty mentorship (UT Austin)

Name	Year	
Belem Lopez	2017-	Assistant Professor, Mexican American and Latina/o Studies
Liberty Hamilton	2017-	Assistant Professor, Communication Sciences and Disorders
Abhra Sarkar	2017-	Assistant Professor, Department of Statistics and Data Sciences
Julia Campbell	2016-	Assistant Professor, Communication Sciences and Disorders
Maya Henry	2015-	Assistant Professor, Communication Sciences and Disorders

Postdoctoral Fellows/Research Associates: *Supervisor*

Name	Year	
Benjamin Zinszer	2017-	Research associate (current)
Fernando Llanos	2016-	Postdoctoral Fellow (current)
Gangyi Feng	2016-17	Postdoctoral Fellow. Currently Research Assistant Professor, Chinese University of Hong Kong.
Kristin Van-Engen	2010-12	Postdoctoral Fellow. Currently Assistant Professor, Washington University at St. Louis.

Ph.D. Dissertation Committee: *Chair*

Name	Year	Status/Noteworthy awards/fellowships
Rachel Reetzke	2018	Currently pursuing a fellowship at UC-Davis
Zilong Xie	2018	Currently postdoctoral fellow (PIs Matthew Goupel, Samira Anderson University of Maryland).
Han-Gyol Yi	2017	Currently postdoctoral fellow (PIs Edward Chang, Matthew Leonard, UCSF). Recipient of the Harrington fellowship, UT Austin's most prestigious graduate fellowship
Kirsten Smayda	2017	Currently a fellow at Insight Data Science. Recipient of NIH F31 fellowship, Helmreich Endowed Presidential Fellowship.
Pak Wing Lam	2017	Awarded Doctoral Scholarship from Council of Academic Programs in Communication Sciences and Disorders, and the Donna Russell Fox Scholarship from the Texas Speech-Language Hearing Association
Rachel Tessmer	ongoing	First year doctoral student. Awarded graduate recruitment fellowship from UT Austin

Ph.D. Dissertation Committee: *Member*

Name	Year	Topic/Noteworthy awards/fellowships
Kristin Stewart	2014	Aural perception in uni and multi-sensory advertising
Marissa Gorlick	2014	The effects of emotion on dissociable learning systems across the lifespan
Rachel Gilbert	2014	Environment- and listener-oriented speaking style adaptations across the lifespan
Jessica Cooper	2016	Attenuating Reflexive And Reflective Decision Making Deficits Through Targeted Training
Cindy Blanco	2016	Cross-language speech perception in context: Advantages for recent language-learners and variation across language-specific acoustic cues
Lauren Kreeger	Ongoing	Neurochemical identification of functional circuits in the inferior colliculus
Stephanie Grasso	Ongoing	TBA, Recipient of NIH F31 fellowship
Jessica Younger	ongoing	Final year doctoral student Awarded continuing fellowship at UT Austin. Recipient of NSF student award in STEM education
Justin Dainer-Best	Ongoing	Identifying and Modifying Negative Self-Referent Cognition in Individuals with Depressive Symptoms
Brian Bondy	Ongoing	TBA

Master's Thesis Committee: *Chair*

Name	Year	Topic
Rachel Tessmer	2016	Optimizing Lexical Training Using a Dual-Learning Systems Approach
Louisa Suiting	2016	Experience-dependent plasticity in speech-in-noise processing
Daniel Rigney	2014	Pilot study of evidence-based practice of adults with aphasia through crowdsourcing
Rachel Reetzke	2014	Age-related changes in the use of audiovisual cues during speech perception
Yi, Han-Gyol	2014	Visual influences on non-native speech perception

Master's Thesis Committee: *Member*

Name	Year	Topic
Jessica Bauman	2015	Alterations in Resting-State Functional Connectivity in Primary Progressive Aphasia
Alexandra Estrella	2015	Vowel perception in noise for Spanish-English bilingual listeners
Caroline Benning	2013	Post-stroke aphasia rehabilitation: A review of the history and findings for constraint-induced therapy

Undergraduate Honors Thesis: *Chair*

Name	Year	Topic
Elise LeBovdige	Ongoing	TBA
Yuan Catherine Han	2016	Regulatory Fit Effects in Speech Category Learning.
Kathryn Curry	2015	Impact of bilingualism on speech perception in noise
Seth Koslov	2012	Pitch, spatial ability, and auditory learning (Plan II Honors thesis)

REFERENCES

Available by request