

# Han Gyol Yi

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## Education

**PhD**, Communication Sciences and Disorders, The University of Texas at Austin, 2017.

**MA**, Communication Sciences and Disorders, The University of Texas at Austin, 2013.

**BS**, Communication Sciences and Disorders, Northwestern University, 2010.

## Work

**Postdoctoral Scholar**, Mentors: Matthew K. Leonard, PhD; Edward F. Chang, MD, University of California, San Francisco, 2017-.

## Publications

1. Feng G\*, **Yi HG\***, Chandrasekaran B. (2018). The role of the human auditory corticostriatal network in speech learning. *Cerebral Cortex*, bhy289.
2. **Yi HG**, Xie Z, Reetzke R, Dimakis AG, Chandrasekaran B. (2017). Vowel decoding from single-trial speech-evoked electrophysiological responses: A feature-based machine learning approach. *Brain and Behavior*, 7(6): e00665.
3. **Yi HG**, Chandrasekaran B. (2016). Auditory categories with separable decision boundaries are learned faster with full feedback than with minimal feedback. *The Journal of the Acoustical Society of America*, 140(2), 1332-1335.
4. Chandrasekaran B, **Yi HG**, Smayda K, Maddox WT. (2016). Effect of explicit dimension instruction on speech category learning. *Attention, Perception, & Psychophysics*, 78, 566-582.
5. **Yi HG**, Maddox WT, Mumford JA, Chandrasekaran B. (2016). The role of corticostriatal systems in speech category learning. *Cerebral Cortex*, 26(4), 1409-1420.
6. Maddox WT, Koslov S, **Yi HG**, Chandrasekaran B. (2015). Performance Pressure Enhances Speech Learning. *Applied Psycholinguistics*, doi: 10.1017/S0142716415000600.
7. Chandrasekaran B, **Yi HG**, Blanco N, McGeary JE, Maddox WT. (2015). Enhanced procedural learning of speech sound categories in a genetic variant of FOXP2. *The Journal of Neuroscience*, 35(20), 7808-7812.
8. Xie Z\*, **Yi HG\***, Chandrasekaran B. (2014). Nonnative audiovisual speech perception in noise: Dissociable effects of the speaker and listener. *PLoS ONE*, 9(12), e114439.

9. **Yi HG**, Smiljanic R, Chandrasekaran B. (2014). The neural processing of foreign-accented speech and its relationship to listener bias. *Frontiers in Human Neuroscience*, 8:768.
10. Maddox WT, Chandrasekaran B, Smayda K, Koslov S, **Yi HG**, Beever CG. (2014). Elevated depressive symptoms enhance reflexive but not reflective auditory category learning. *Cortex*, 58, 186-198.
11. Chandrasekaran B, **Yi HG**, Maddox WT. (2014). Dual-learning systems during speech category learning. *Psychonomic Bulletin & Review*, 21(2), 488-495.
12. **Yi HG**, Phelps JE, Smiljanic R, Chandrasekaran B. (2013). Reduced efficiency of audio-visual integration for nonnative speech. *The Journal of the Acoustical Society of America*, 134(5), EL387-EL393.
13. Maddox WT, Chandrasekaran B, Smayda K, **Yi HG**. (2013). Dual systems of speech category learning across the lifespan. *Psychology and Aging*, 28(4), 1042.
14. Hornickel J, Anderson S, Skoe E, **Yi HG**, Kraus N. (2012). Subcortical representation of speech fine structure relates to reading ability. *NeuroReport*, 23(1), 6-9.
15. Anderson S, Parbery-Clark A, **Yi HG**, Kraus N. (2011). A neural basis of speech-in-noise perception in older adults. *Ear & Hearing*, 32(6), 750-757.
16. Anderson S, Chandrasekaran B, **Yi HG**, Kraus N. (2010). Cortical-evoked potentials reflect speech-in-noise perception in children. *European Journal of Neuroscience*, 32(8), 1407-1413.

## Awards and Honors

1. **Graduate School Named Endowed Continuing Fellowship.** 2015-2016. The University of Texas at Austin. *The award speaks highly of your record of accomplishments as a graduate student at the University.* Total stipend of \$26,000 for up to 12 months of support. Full tuition support. Annual reimbursement of \$2,000 for research-related costs. \$2,181 to defray the costs of medical insurance.
2. **Donald Harrington Graduate Fellows Program.** 2011-2014. The University of Texas at Austin. *The Harrington Graduate Fellows Program supports up to 16 Fellows each academic year with stipends that equal or exceed those of other prestigious fellowship programs.* Annual stipend of \$36,000. Full tuition support. Annual reimbursement of \$2,000 for research-related costs. \$1,204 to defray the costs of medical insurance
3. **Summer Undergraduate Research Grant.** 2010. The Roxelyn and Richard Pepper Department of Communication Sciences and Disorders, School of Communication, Northwestern University Encoding of stimulus regularities in the human auditory brainstem: Older adults and linkage to speech in noise perception. \$3,000.
4. **Communication Century Scholar.** 2010. The Roxelyn and Richard Pepper Department of Communication Sciences and Disorders, School of Communication, North-

western University To recognize individual students for their academic excellence and contributions to classroom learning.

5. **Lois L. Elliott Book Award.** 2010. The Roxelyn and Richard Pepper Department of Communication Sciences and Disorders, School of Communication, Northwestern University Presented to an undergraduate human communication sciences major who has demonstrated outstanding achievement.

## Conference Presentations

1. **Yi HG\***, Leonard MK\*, Chandrasekaran B, Nourski KV, Howard III MA, Chang EF. (2018). Learning novel speech sounds reorganizes acoustic representations in the human superior temporal gyrus. Poster, *48<sup>th</sup> Annual Meeting for Society for Neuroscience*, San Diego, CA.
2. Llanos F, McHaney JR, Leonard MK, Schuerman WL, **Yi HG**, Chandrasekaran B. (2018). Transcutaneous vagus nerve stimulation enhances non-native speech categorization. Poster, *10<sup>th</sup> Meeting for Society for the Neurobiology of Language*, Quebec City, Quebec, Canada.
3. **Yi HG\***, Leonard MK\*, Chandrasekaran B, Nourski KV, Howard III MA, Chang EF. (2018). Learning novel speech sounds reorganizes acoustic representations in the human superior temporal gyrus. Slide Presentation, *10<sup>th</sup> Meeting for Society for the Neurobiology of Language*, Quebec City, Quebec, Canada.
4. Europa E, Grasso S, Dial HR, **Yi HG**, Henry ML. (2018). Effects of script training on neural activity in primary progressive aphasia: A pilot fMRI study. Poster, *Clinical Aphasiology Conference*, Austin, TX.
5. **Yi HG**, Feng G, Leonard MK, Wang S, Wong PCM, Chandrasekaran B. (2017). Corticostriatal learning systems in auditory categorization. Poster, *6<sup>th</sup> International Conference on Auditory Cortex*, Banff, Alberta, Canada.
6. Feng G, **Yi HG**, Chandrasekaran B. (2017). Corticostriatal circuitry associated with speech representational plasticity in the superior temporal gyrus. Poster, *6<sup>th</sup> International Conference on Auditory Cortex*, Banff, Alberta, Canada.
7. Chan AHD, Ching A, Wong G, **Yi HG**, Wong PCM, Wong FCK. (2017). Cognitive precursors for learning and reading performance in two different languages: A study with artificial language. Poster, *11<sup>th</sup> International Symposium on Bilingualism*, Limerick, Ireland.
8. **Yi HG**, Tessmer R, Chandrasekaran B. (2016). Optimizing Lexical Learning through Manipulation of Phonological Training Environment. Poster, *171<sup>st</sup> Meeting of the Acoustical Society of America*, Salt Lake City, UT.
9. **Yi HG**, Xie Z, Reetzke R, Dimakis AG, Chandrasekaran B. (2016). Midbrain-based decoding of vowel and speaker information in humans. Podium, *Association for Research in Otolaryngology 2016 MidWinter Meeting*, San Diego, CA.

10. Xie Z, Reetzke R, **Yi HG**, Dimakis AG, Chandrasekaran B. (2016). Subcortical decoding of stimulus, group experience, and individuality. Poster, *Association for Research in Otolaryngology 2016 MidWinter Meeting*, San Diego, CA.
11. Reetzke R, Xie Z, **Yi HG**, Dimakis AG, Chandrasekaran B. (2016). Dynamics of short-term experience-dependent plasticity in human subcortical auditory function. Podium, *Association for Research in Otolaryngology 2016 MidWinter Meeting*, San Diego, CA.
12. **Yi HG**, Koslov SR, Maddox WT, Chandrasekaran, B. (2016). Mapping the auditory corticostriatal pathway in humans using diffusion tensor imaging. Poster, *Association for Research in Otolaryngology 2016 MidWinter Meeting*, San Diego, CA.
13. **Yi HG**, Koslov SR, Maddox WT, Chandrasekaran, B. (2015). Corticostriatal white matter connectivity predicts speech category learning success. Poster, *Seventh Annual Meeting of the Society for the Neurobiology of Language*, Chicago, IL.
14. **Yi HG**, Xie Z, Reetzke R, Chandrasekaran B. (2015). Corticocollicular influences on subcortical encoding of speech sounds. Poster, *Seventh Annual Meeting of the Society for the Neurobiology of Language*, Chicago, IL.
15. Asteris M, Kyrillidis A, Dimakis A, **Yi HG**, Chandrasekaran B. (2015). Stay on path: PCA along graph paths Poster, *32<sup>nd</sup> International Conference on Machine Learning*, Lille, France.
16. **Yi HG**, Maddox WT, Mumford JA, Chandrasekaran B. (2014). The role of corticostriatal learning systems in speech categorization. Poster, *Psychonomic Society's 55<sup>th</sup> Annual Meeting*, Long Beach, CA.
17. **Yi HG**, Maddox WT, Knopik VS, McGeary JE, Chandrasekaran B. (2014). Enhanced speech learning in genetic variants of COMT and FOXP2. Poster, *168<sup>th</sup> Meeting of the Acoustical Society of America*, Indianapolis, IN.
18. **Yi HG**, Smiljanic R, Chandrasekaran B. (2013). Natural variations in speech intelligibility: An fMRI study. Poster, *19<sup>th</sup> Annual Meeting of the Organization for Human Brain Mapping*, Seattle, WA.
19. Smayda K, **Yi HG**, Chandrasekaran B, Maddox WT. (2013). Reflexive and reflective system learning of auditory categories across the lifespan. Poster, *Dallas Aging and Cognition Conference*, Dallas, TX.
20. **Yi HG**, Chandrasekaran B, Maddox WT. (2012). Optimized speech sound category training bootstraps foreign word learning. Poster, *164<sup>th</sup> Meeting of the Acoustical Society of America*, Kansas City, MO.
21. Chandrasekaran B, **Yi HG**, Maddox WT. (2012). Delayed feedback disrupts optimal strategies during foreign speech sound learning. Poster, *164<sup>th</sup> Meeting of the Acoustical Society of America*, Kansas City, MO.

## Teaching

**Guest Lecturer.** Spring 2017. *Principles of Cognitive Neuroscience*. Auditory perception and learning. Department of Psychology. The University of Texas at Austin.

**Graduate Instructor.** Fall 2015. *Language and the Brain*. Introductory neuroanatomy, neuroimaging, neural correlates of reading and writing. Department of Communication Sciences and Disorders. The University of Texas at Austin.

**Guest Lecturer.** Summer 2015. *Learning and the Brain*. Speech learning and the brain. Department of Psychology. The University of Texas at Austin.