Sahil Luthra
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Education

Ph.D., Psychological Sciences (Language and Cognition) — 2021 *(Expected)*
University of Connecticut; Advisors: Jim Magnuson, Emily Myers
Dissertation title: Neural mechanisms underlying talker-specific influences on speech perception

M.S., Psychological Sciences (Language and Cognition) — 2019
University of Connecticut; Advisors: Jim Magnuson, Emily Myers
Thesis title: The influence of sentence context on phonetic recalibration

Graduate Certificate, Neurobiology of Language — 2019
University of Connecticut

B.S. with Honors, Cognitive Neuroscience — 2014
Brown University; Advisor: Sheila Blumstein
Thesis title: Speaker information in spoken word recognition: An investigation using false memories

Honors & Awards

Isabelle Y. Liberman Award, University of Connecticut	2020
NSF Graduate Research Fellowship	2018-2021
NSF Research Traineeship (Science of Learning & Art of Communication)	2018-2021
Jorgensen Scholarship, University of Connecticut	2018-2021
NSF IGERT Fellowship (Language Plasticity)	2016-2018
Premium for Excellence in Cognitive Neuroscience, Brown University	2014
Royce Fellowship, Brown University	2012
August P. Reccord Scholarship, Brown University	2010-2014
Eagle Scout Scholarship, Frank Livermore Trust	2010-2014
National Merit Scholarship	2010

Academic Employment

Research Assistant — 2014-2016
Brown University
PI: Emily Myers, Co-Investigator: Sheila Blumstein

Research Assistant — 2013
Boston University
PI: Swathi Kiran

Peer-Reviewed Publications (Published)

Luthra, S. The role of the right hemisphere in processing phonetic variability between talkers. *Neurobiology of Language*. In press.

Luthra, S., You, H., Rueckl, J. G., & Magnuson, J. S. Friends in low-entropy places: Orthographic neighbor effects on visual word identification differ across letter positions. *Cognitive Science*. In press.

Luthra, S., Magnuson, J. S., & Myers, E. B. Boosting lexical support does not enhance lexically guided perceptual learning. *Journal of Experimental Psychology: Learning, Memory, and Cognition*. In press.

Luthra, S., Correia, J. M., Kleinschmidt, D. F., Mesite, L. & Myers, E. B. Lexical information guides retuning of neural patterns in perceptual learning of speech. (2020). *Journal of Cognitive Neuroscience*, *32*(10), 2001-2012.

Magnuson, J. S., You, H., **Luthra, S.**, Li, M. Y. C., Nam, H., Escabí, M., Brown, K., Allopenna, P. D., Theodore, R. M., Monto, N., & Rueckl, J. (2020). EARSHOT: A minimal neural network model of incremental human speech recognition. *Cognitive Science*, *44*(4).

Luthra, S., Fuhrmeister, P., Molfese, P. J., Guediche, S., Blumstein, S. E., & Myers, E. B. (2019). Brain-behavior relationships in incidental learning of non-native phonetic categories. *Brain & Language, 198*.

Luthra, S., Guediche, S., Blumstein, S. E., & Myers, E. B. (2019). Neural substrates of subphonemic variation and lexical competition in spoken word recognition. *Language, Cognition & Neuroscience, 34*(2), 151-169.

Luthra, S., Fox, N. P., & Blumstein, S. E. (2018). Speaker information affects false recognition of unstudied lexical-semantic associates. *Attention, Perception & Psychophysics*, *80*(4), 894-912.

Magnuson, J. S., Mirman, D., **Luthra, S**., Strauss, T., & Harris, H. (2018). Interaction in spoken word recognition models: Feedback helps. *Frontiers in Psychology*, *9*, 1-18.

Theodore, R. M., Blumstein, S. E., & **Luthra, S.** (2015). Attention modulates specificity effects in spoken word recognition: Challenges to the time-course hypothesis. *Attention, Perception & Psychophysics, 77*(5), 1674-1684.

Peer-Reviewed Publications (In Progress)

Luthra, S., Saltzman, D., Myers, E. B., & Magnuson, J. S. Listener expectations and the perceptual accommodation of talker variability: A pre-registered replication. *Attention, Perception & Psychophysics*. Accepted.

Luthra, S., Li. M. Y. C., You, H., & Magnuson, J. S. Does predictive processing imply predictive coding in models of spoken word recognition? In revision.

Luthra, S., Mechtenberg, H., & Myers, E. B. Perceptual learning of multiple talkers requires additional exposure. Under review.

Luthra, S., Peraza-Santiago, G., Beeson, K., Saltzman, D., Crinnion, A. M, & Magnuson, J. S. Robust lexically-mediated compensation for coarticulation: Christmash time is here again. Under review.

Conference Presentations

Luthra, S., Mechtenberg, H., & Myers, E. B. Perceptual learning of multiple talkers requires additional exposure. Psychonomic Society, Virtual Conference, November 2020.

Peraza-Santiago, G., Beeson, K., **Luthra, S.,** Saltzman, D., Crinnion, A. M., & Magnuson, J. S. Robust lexically-mediated compensation for coarticulation (LCfC) supports feedback in spoken word recognition. Psychonomic Society, Virtual Conference, November 2020.

Grubb, S., Dalal, P., Daniel, J., Peraza-Santiago, G., **Luthra, S.,** Saltzman, D., Xie, B., Crinnion, A.M., & Magnuson, J. S. Talkers, time, tasks, and similarity in spoken word recognition. Psychonomic Society, Virtual Conference, November 2020.

Saltzman, D., **Luthra, S.,** Myers, E. B., & Magnuson, J. S. Multi-talker processing costs in monitoring reflect task demands, not normalization. Psychonomic Society, Virtual Conference, November 2020.

Luthra, S., Steiner, R. J., Magnuson, J. S., & Myers, E. B. The influence of sentence context on lexically guided perceptual learning. Psychonomic Society, Montréal, QC, November 2019.

Luthra, S., Correia, J. M., Kleinschmidt, D. F., Mesite, L. & Myers, E. B. Lexical information guides retuning of neural patterns in perceptual learning of speech. Society for Neurobiology of Language, Helsinki, Finland, August 2019.

Magnuson, J., S., You, H. Rueckl, J., Allopenna, P. D., Li, M. Y. C., **Luthra, S.**, Steiner, R. J., Escabí, M., Brown, K., Theodore, R. M., & Monto, N. EARSHOT: Emulating Auditory Recognition of Speech by Humans Over Time. Society for Neurobiology of Language, Helsinki, Finland, August 2019.

Magnuson, J., S., You, H. Rueckl, J., Allopenna, P. D., Li, M. Y. C., **Luthra, S.**, Steiner, R. J., Escabí, M., Brown, K., Theodore, R. M., & Monto, N. EARSHOT: A minimal model of human speech recognition (HSR) that operates on real speech. Cognitive Science Society, Montréal, QC, July 2019.

Magnuson, J., S., Li, M. Y. C., **Luthra, S.**, You, H., & Steiner, R. J. Does predictive processing imply predictive coding in models of spoken word recognition? Cognitive Science Society, Montréal, QC, July 2019.

Luthra, S., You, H., & Magnuson, J. S. Orthographic neighbor effects on visual word identification differ across letter positions. Psychonomic Society, New Orleans, LA, November 2018.

Li, M. Y. C., You, H., **Luthra, S.**, Steiner, R. J., & Magnuson, J. S. Predictive processing in computational models of spoken word recognition. Psychonomic Society. New Orleans, LA, November 2018.

Luthra, S., & Magnuson, J. S. Friends in low-entropy places: Letter position influences orthographic neighbor effects in visual word identification. Cognitive Science Society, Madison, WI, July 2018.

Magnuson, J. S., Li, M. Y. C., You, H., **Luthra, S.**, & Steiner, R. J. Predictive processing in computational models of spoken word recognition. Workshop on Predictive Processing. Donostia-San Sebastián, Spain, June 2018.

Luthra, S., Fuhrmeister, P., Molfese, P. J., Guediche, S., Blumstein, S. E., & Myers, E. B. Brain-behavior relationships in implicit learning of non-native phonetic categories. Society for Neurobiology of Language. Baltimore, MD, November 2017.

Luthra, S., & Magnuson, J. S. Cumulative response probabilities: Estimating time course of lexical activation from single-point response times. Cognitive Science Society, London, UK, July 2017.

Luthra, S., Fuhrmeister, P., Guediche, S., Blumstein, S. E., & Myers, E. B. Neural correlates of task-irrelevant perceptual learning of non-native speech sounds. Psychonomic Society. Boston, MA, November 2016.

Luthra, S., Guediche, S., Blumstein, S. E., & Myers, E. B. Effects of phonetic category structure on brain activity during word recognition. Society for Neurobiology of Language. London, UK, August 2016.

Luthra, S., Fox, N. P., & Blumstein, S. E. Speaker information affects false recognition of unstudied lexical-semantic associates. Society for Neurobiology of Language. Chicago, IL, October 2015.

Myers, E. B., Theodore, R. M., & **Luthra, S.** Neural encoding of talker-specific phonetic variation. Society for Neurobiology of Language. Chicago, IL, October 2015.

Teaching Experience	**Instructor of Record**	
	PSYC 3500: Psychology of Language	Fall 2019
	Guest Lectures	
	PSYC 2501: Cognitive Psychology	October 2017
	SLHS 3247: Introduction to Phonetic Principles	December 2016
	Community Presentations	
	The Science of Language (Haynes Elementary School, MA)	May 2020
	Cognitive Neuroscience (Central High School, RI)	February 2016
	Workshop Presentations	
	Data Visualization (UConn "J-Term" Primers)	January 2020
	Advanced Neuroimaging Techniques (UConn "J-Term" Primers)	January 2019
Invited Talks	Spoken Language Interest Group, Basque Centre for Cognition, Brain, & Language	July 2018
Outreach	Editor-in-Chief, *Brain, Cognition, & Language Digest,* Connecticut Institute for the Brain and Cognitive Sciences	2018-2019
	Team Member, Language Science for Everyone, AAAS Family Science Days	February 2017
Service	"J-Term" Committee for Neurobiology of Language (NBL) & Science of Learning & Art of Communication (SLAC) programs	2016-present
	Academic Committee for NBL/SLAC programs	2016-Present
	Events Committee for NBL/SLAC programs	2016-2018
	Student Organizer, Language & Cognition Brown Bag	2017-2019
	Student Organizer, NBL "Talk Shop"	2016-2017
Ad Hoc Reviewer	*JASA Express Letters* *Journal of Cognitive Psychology* *Journal of Experimental Psychology: Learning, Memory and Cognition* *Journal of Memory and Language* *Journal of Neuroscience* *PLOS ONE* *Quarterly Journal of Experimental Psychology*	
Professional Affiliations	Cognitive Science Society Psychonomic Society Society for Neurobiology of Language National Public Radio "SciCommers"	

Professional Skills	**fMRI/DTI** AFNI, FreeSurfer/Tracula, SPM/MATLAB, TORTOISE **TMS** **Eyetracking** EyeLink **Acoustic analysis** Praat, STRAIGHT **Experiment programming** Gorilla, E-Prime, JSPsych, PsychoPy, Psychtoolbox, Open Sesame **Statistics** R, SPSS
Languages	English (native) Spanish (professional fluency) Hindi (intermediate skill)