

Sahil Luthra

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| Education | Ph.D., Psychological Sciences (Language and Cognition) University of Connecticut; Advisors: Jim Magnuson, Emily Myers <i>Dissertation title:</i> Neural mechanisms underlying talker-specific influences on speech perception | 2021 <i>(Expected)</i> |
| | M.S., Psychological Sciences (Language and Cognition) University of Connecticut; Advisors: Jim Magnuson, Emily Myers <i>Thesis title:</i> The influence of sentence context on phonetic recalibration | 2019 |
| | Graduate Certificate, Neurobiology of Language University of Connecticut | 2019 |
| | B.S. with Honors, Cognitive Neuroscience Brown University; Advisor: Sheila Blumstein <i>Thesis title:</i> Speaker information in spoken word recognition: An investigation using false memories | 2014 |
| 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 Brown University PI: Emily Myers, Co-Investigator: Sheila Blumstein | 2014-2016 |
| | Research Assistant Boston University PI: Swathi Kiran | 2013 |

**Peer-
Reviewed
Publications
(Published)**

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.,** 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.

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| 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 |

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| Outreach | Editor-in-Chief, <i>Brain, Cognition, & Language Digest</i> , 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 | <i>Journal of Cognitive Psychology</i> <i>Journal of Experimental Psychology: Learning, Memory and Cognition</i> <i>Journal of Memory and Language</i> <i>Journal of Neuroscience</i> <i>PLOS ONE</i> <i>Quarterly Journal of Experimental Psychology</i> | |
| 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) | |