Chao Han

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DEGREES

2023	Ph.D., Linguistics University of Delaware, Newark, USA Committee: Arild Hestvik (supervisors), William Idsardi, Irene Vogel, and Zhenghan Qi
2014	M.A., Linguistics and Applied Linguistics Beijing Foreign Studies University, Beijing, China Committee: Yaping Chen (supervisors), Chun Lan, and Yan Yi
2009	B.A., International Economics and Trade Beijing Foreign Studies University, Beijing, China
2009	B.A., English Language and Literature Beijing Foreign Studies University, Beijing, China

EMPLOYMENT

2024/1-now	Postdoctoral Researcher Department of Language Studies, University of Toronto Scarborough, Canada
2023/8-	Adjunct Professor
2023/12	Department of Linguistics and Cognitive Science, University of Delaware, USA

ACADEMIC HISTORY

Research Grant

2021-2023 NSF BCS-2041266, Doctoral Dissertation Research Improvement Grants (\$19,200 USD) Role: Co-PI (PI: A. Hestvik).

Working Manuscripts

- Han, C., Hestvik, A., Idsardi, B. (in review) No exclusive access to phonemes with the varyingstandards MMN paradigm.
- Dong, Z., **Han, C.**, & Li, S. (in review) Feedback explicitness, working memory, and explicit knowledge in classroom-based second language Mandarin tone learning.

Peer-reviewed Publications

Asami, D., Han, C., Burger, J., Dunlop, D., Lu, Y., Yahya M Morad, E., Zhao, C., & Hestvik, A. (2025). "Negation-blind" N400 effect disappears when lexical priming is controlled. *Experiments in Linguistic Meaning*, 3, 19–31. DOI

- Shinohara, Y., **Han**, C., & Hestvik, A. (2023). English Vowel Discrimination and Perceptual Assimilation by Japanese Listeners. *Language and Speech*, 67(4), 945–960. DOI
- Dong, Z. R., Han, C., Hestvik, A., & Hermon, G. (2023). L2 processing of filled gaps: Non-native brain activity not modulated by proficiency and working memory. *Linguistic Approaches to Bilingualism*, 13(6), 767-800. DOI
- Shinohara, Y., Han, C., & Hestvik, A. (2022). Discriminability and prototypicality of non-native vowels. Studies in Second Language Acquisition, 44(5), 1260–1278. DOI
- Rhodes, R., Avcu, E., Han, C., & Hestvik, A. (2022). Auditory predictions are phonological when phonetic information is variable. *Language, Cognition and Neuroscience*, 37(9), 1099– 1114. DOI
- Rhodes, R., Han, C., & Hestvik, A. (2019). Phonological memory traces do not contain phonetic information. Attention, Perception, & Psychophysics, 81(4), 897–911. DOI

Proceedings

- Hestvik, A., Morlet, T., Nagao, K., & Han, C. (2023). Auditory processing disorder targets phonetics, not phonology. In P. Gappmayr & J. Kellogg (Eds.), *Proceedings of the 47th Annual Boston University Conference on Language Development, Somerville, MA: Cascadilla Press* (pp. 356-365). PDF
- Han, C., Vogel, I., Yuan, Y., Athanasopoulou, A. (2020). Perceptual confusion of Mandarin tone 3 and tone 4. University of Pennsylvania Working Papers in Linguistics, 26(1), 12, 97-103. PDF
- Rhodes, R., Han, C., Hestvik, A. (2019). Ad hoc phonetic categorization and prediction. In S. Calhoun, P. Escudero, M. Tabain, & P. Warren (Eds.), *Proceedings of the 19th International Congress of Phonetic Sciences, Melbourne, Australia* (pp. 1223-1227). PDF
- Shinohara, Y., Han, C., Hestvik, A. (2019). Effects of perceptual assimilation: The perception of English /æ/, /ʌ/, and /ɑ/ by Japanese speakers. In S. Calhoun, P. Escudero, M. Tabain, & P. Warren (Eds.), *Proceedings of the 19th International Congress of Phonetic Sciences, Melbourne, Australia* (pp. 2344-2348). PDF
- Vogel, I., Athanasopoulou, A., Han, C., Yue, Y. (2019). How perceptible is the difference between tone 3 and tone 4 in Mandarin Chinese? In S. Calhoun, P. Escudero, M. Tabain, & P. Warren (Eds.), Proceedings of the 19th International Congress of Phonetic Sciences, Melbourne, Australia (pp. 2027-2031). PDF
- Athanasopoulou, A., Vogel, I., Han, C., Yue, Y. (2019). Confusability of Mandarin tone 3 and tone 4: effects of focus and syllable position. In S. Calhoun, P. Escudero, M. Tabain, & P. Warren (Eds.), *Proceedings of the 19th International Congress of Phonetic Sciences, Melbourne, Australia* (pp. 442-446). <u>PDF</u>

Presentations

Burger, J., Hestvik, A., Han, C., Hill T., Idsardi W., Knox, A., Alromihi, A. (2025). Neural Investigation of underspecification with rotated speech. Talk at *Thirteenth North American Phonology Conference*, Concordia University, Canada, May 2025.

- Han, C., Ma K., Monahan, PJ, Kang, Y. (2025). Neurophysiological encoding of VOT and F0 in voicing perception. Talk at *The [mot^h] Phonetics/Phonology 2025 workshop*, Toronto, Canada, April 2025.
- Hong, L., Han, C., Monahan, PJ. (2024). The accented brain: An EEG study on talker variability. Poster at *The Psychonomic Society's 65th Annual Meeting*, New York City, USA, November 2024.
- Han, C., Hestvik, A., & Idsardi, W. (2024). Memory trace retention of acoustic details with a category. Talk at the 10th Mismatch Negativity Conference, Salamanca, Spain, September 2024.
- Han, C., Hestvik, A., & Idsardi, W. (2023). Memory trace retention of acoustic details with a category. Talk at *PhonolEEGy2, Linguistics Society of America Summer Institute*, UMASS/Amherst, USA, June 2023.
- Hestvik, A., Morlet, T., Nagao, K. & **Han, C.** (2022). Auditory processing disorder targets phonetics, not phonology. Talk at *The 47th Boston University Conference on Language Development*, Boston, USA, November 2022.
- Han, C., Hestvik, A., Rhodes, R., & Idsardi, W. (2022). Symbolic vs. gradient phonemes. Poster at *The 14th Annual Meeting of the Society for the Neurobiology of Language*, Philadelphia, USA, October 2022.
- Han, C., Hestvik, A., & Rhodes, R. (2022). What does varying the standards in an MMN paradigm really do? Poster at *The 14th Annual Meeting of the Society for the Neurobiology of Language*, Philadelphia, USA, October 2022.
- Han, C., Rhodes, R., Idsardi W., & Hestvik A. (2022). Symbolic vs. gradient phonemes. Poster at *The* 9th Mismatch Negativity conference, Fukushima, Japan, September 2022.
- Han, C., Yuan, Y., & Vogel, I. (2019). Perception of Mandarin tone 3 and tone 4: Effects of syllable position and focus. Talk at *The 43rd Penn Linguistics Conference*, Philadelphia, PA.
- Avcu, E., Rhodes, R., **Han, C.**, & Hestvik, A. (2019). P300 as an index of phonotactic violation. Poster at *The 93rd Annual Meeting of the Linguistic Society of America*, New York, NY.
- Han, C., Pereira, O., Walter, C., Morlet, T., Hestvik, A., & Nagao, K. (2018). Phoneme identification of children with various auditory processing deficits. Talk at *The 12th Mini-Conference on Acoustic*, Washington, DC.
- Han, C., Yuan, Y., & Vogel, I. Perceptual confusion of Mandarin tone 3 and tone 4. (2018). Poster at *The International Forum on Frontiers in Linguistics*, Beijing, China.
- Avcu, E., Rhodes, R., Han, C., & Hestvik, A. (2018). Neurophysiological signature of phonotactic rule-learning. Poster at *The 59th Annual Meeting of Psychonomic Society*, New Orleans, LA.
- Avcu, E., Rhodes, R., Han, C., & Hestvik, A. (2018). Neural underpinnings of phonotactic rule Learning. Poster at *The 49th Annual Meeting of the North East Linguistic Society*, New York, NY.
- Rhodes, R., & Han, C. (2018). Phonetic content of auditory representations. Poster at *The 10th Annual Meeting of the Society for the Neurobiology of Language*, Québec City, Canada.

- Pereira, O., Han, C., Hestvik, A., Morlet, T., & Nagao, K. (2018). Phonetic vs. phonological MMN: A novel approach to detect auditory processing deficit in children. Poster at *The 8th Mismatch Negativity Conference*, Helsinki, Finland.
- Rhodes, R., **Han, C.**, & Hestvik, A. (2018). No ad hoc perceptual grouping of speech sounds in the varying standards oddball paradigm. Poster at *The 8th Mismatch Negativity Conference*, Helsinki, Finland.
- Rhodes, R., **Han, C.**, & Hestvik, A. (2017). The ad hoc perceptual grouping of speech sounds in the varying standards oddball paradigm. Poster at *The 24th Annual Meeting of the Cognitive Neuroscience Society*, San Francisco, CA.
- Pereira, O., Hestvik, A., Morlet, T., Han, C., Scharf, S., Sklar, R., Nemith, J., DeVore, B., & Nagao, K. (2017). Using the mismatch negativity paradigm to explore the deficits in children with auditory processing disorder. Poster at *The DE-CTR ACCEL 4th Annual Meeting*, Newark, DE.
- Han, C., & Chen, Y. (2013). Are Chinese people facing Past? Experimental evidence for Chinese spatiotemporal representations. Talk at *The 2nd International Conference on Psycholinguistics*, Fujian, China.
- Han, C., & Chen, Y. (2013). Psychological reality of space-time metaphors in the horizontal and the vertical dimensions in Mandarin. Talk at *The 3rd National Forum on Neurolinguistics and Second Language Acquisition*, Beijing, China.

TEACHING

As Instructor

CGSC420/620	Research Methods in Cognitive Science Fall 2023			
CGSC496/696	Psycholinguistics Spring 2022			
CGSC433/633	Introduction to Acoustic Phonetics Spring 2020			
CGSC470/670	Elements of Cognitive Science Fall 2019			
As Teaching Assistant				
CGSC420/620	Research Methods in Cognitive Science Fall 2021			
PSYC209	Measurement and Statistics Fall 2018, Spring 2019			
CGSC433/633	Introduction to Acoustic Phonetics Spring 2018			
PYSC390	Social Psychology Fall 2017			

CGSC170	Introduction to Cognitive Science Spring 2017, Fall 2022
LING403/603	Introduction to Phonology Fall 2016
PYSC100	General Psychology Spring 2016

SERVICE

Lab Manager	Experimental Psycholinguistics Lab, University of Delaware
Reviewer	Bilingualism: Language and Cognition Language and Speech Language, Cognition and Neuroscience
Conference Organization	Linguistics Colloquium Series, University of Delaware (2017-2018) The 47th Linguistic Symposium on Romance Languages (2017) Linguistics Reading Salon, Beijing Foreign Studies University (2012-2013) Linguistics and Cognitive Science Student Conference, University of Delaware (2018)

HONORS

2015-2022	Summer Research Grant, University of Delaware
2017-2018	Professional Development Award, University of Delaware
2012	Xu Gehui Alumni Scholarship, Beijing Foreign Studies University

SKILLS

Programming: R, MATLAB, Python, Praat

Language: Mandarin Chinese (native), Wu Chinese (native), English (fluent), Japanese (intermediate)