Chao Han

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EDUCATION

2023	Ph.D., Linguistics
	University of Delaware, Newark, USA
	Committee: Arild Hestvik (supervisor), William Idsardi, Irene Vogel, and Zhenghan Q

2014 M.A., Linguistics and Applied Linguistics Beijing Foreign Studies University, Beijing, China Committee: Yaping Chen (supervisor), Chun Lan, and Yan Yi

2009 B.A., International Economics and Trade Beijing Foreign Studies University, Beijing, China

EMPLOYMENT

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

PUBLICATION

Submitted

Han, C., Hestvik, A., Idsardi, W. (under review) No exclusive access to phonemes with the varying-standards MMN paradigm.

Journal articles

- Dong, Z., **Han, C.**, & Li, S. (in press). Feedback explicitness, working memory, and explicit knowledge in classroom-based second language Mandarin tone learning. *Language Teaching Research*. https://doi.org/10.1177/13621688251378559
- 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. https://doi.org/10.3765/elm.3.5800
- Shinohara, Y., **Han, C**., & Hestvik, A. (2023). English Vowel Discrimination and Perceptual Assimilation by Japanese Listeners. *Language and Speech*, *67*(4), 945–960. https://doi.org/10.1177/00238309231209311
- 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. https://doi.org/10.1075/lab.20058.don

- Shinohara, Y., **Han, C.**, & Hestvik, A. (2022). Discriminability and prototypicality of non-native vowels. *Studies in Second Language Acquisition*, 44(5), 1260–1278. https://doi.org/10.1017/S0272263121000978
- 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. https://doi.org/10.1080/23273798.2022.2043395
- Rhodes, R., **Han, C.**, & Hestvik, A. (2019). Phonological memory traces do not contain phonetic information. *Attention, Perception, & Psychophysics, 81*(4), 897–911. https://doi.org/10.3758/s13414-019-01728-1

Conference papers

- 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).
- **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.
- 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).
- 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).
- 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).
- 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).

PRESENTATIONS

- Han, C., Lim, T., Kim, S.Y., Idsardi, W., Monahan, P.J. (2025). Language-specific phonological patterning shapes neural encoding of phonetic categories. Poster at *Society for the Neurobiology of Language 17th Annual Meeting*, Gallaudet University, Washington DC, September 2025.
- **Han, C.**, Ma, K., Kang, Y., Monahan, P.J. (2025). Pre-attentive phonological encoding does not track phonetic cue weighting. Poster at *Society for the Neurobiology of Language 17th Annual Meeting*, Gallaudet University, Washington DC, September 2025.

- Patil, K.N., **Han, C.**, Monahan, P.J. (2025). Wait, who said that?: Talker accent modulates neural processing of Mandarin-English code-switched speech. Poster at *Society for the Neurobiology of Language 17th Annual Meeting*, Gallaudet University, Washington DC, September 2025.
- Burger, J., Hestvik, A., Idsardi W., **Han, C.**, Knox, A., Hill, T. (2025). Separating acoustics from phonology with rotated speech. Poster at *Society for the Neurobiology of Language 17th Annual Meeting*, Gallaudet University, Washington DC, September 2025.
- 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, P.J., Kang, Y. (2025). Neurophysiological encoding of VOT and F0 in voicing perception. Talk at *The [moth] Phonetics/Phonology 2025 workshop*, Toronto, Canada, April 2025.
- Hong, L., **Han, C.**, Monahan, P.J.. (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.

GRANT

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

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 Linguistics Colloquium Series, University of Delaware (2017-2018)

Organization 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)