

Sihan Chen

PHD STUDENT · DEPARTMENT OF BRAIN AND COGNITIVE SCIENCES

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Education

Massachusetts Institute of Technology

PHD IN COGNITIVE SCIENCE

- Advisor: Dr. Edward Gibson

Cambridge, MA, United States

September 2020 - present

University of Miami

BS IN MECHANICAL ENGINEERING

- Minor in Mathematics
- graduated summa cum laude

Coral Gables, FL, United States

January 2016 - December 2019

Professional Experience

2020- **Research Assistant**, Brain and Cognitive Sciences, MIT

2018-2019 **Undergraduate Research Assistant**, Mechanical Engineering, University of Miami

2017-2019 **Peer Tutor**, Camner Academic Resource Center, University of Miami

Publications

JOURNAL ARTICLES

1. Everett, C., **Chen, S** (2021), Speech adapts to differences in dentition within and across populations. *Scientific Reports* 11, 1066.
2. Zhu, Q., Gao, X., **Chen, S.**, Gu, W., Brown, M. D., (2020) Effects of Intervertebral Disc Degeneration on Mechanical and Electrical Signals at the Interface between Disc and Vertebra. *Journal of Biomechanics*, 104, 109756.

CONFERENCE PROCEEDINGS

1. **Chen, S.** & Everett, C. (2020), Did Post-Neolithic Changes in Bite Configuration Impact Speech? A New Approach to the Question. *Proceedings to the 13th International Conference on the Evolution of Language*, Brussels, Belgium

CONFERENCE ABSTRACTS

1. **Chen, S.**, Futrell, R., Mahowald, K. (2022), An information-theoretic approach to the typology of spatial adverbs. *The 4th Workshop on Research in Computational Typology and Multilingual NLP*. Seattle, WA
2. Benitez-Burraco, A., Cahuana, C., **Chen, S**, Gil, D., Progovac, L., Reifegerste, J., Tatarinova, T., Cognitive and genetic correlates of a single macro-parameter of crosslinguistics variation. *Joint Conference on Language Evolution*. Kanazawa, Ishikawa, Japan

POSTERS

1. **Chen, S.**, Futrell, R., Mahowald, K. (2022), An information-theoretic approach to the typology of spatial adverbs. 35th Annual Conference on Human Sentence Processing. Santa Cruz, CA. March 25, 2022.
2. Zhu, Q., Gao, X., Brown, M. D., **Chen, S.**, Gu, W., (2020), Effects of Intervertebral Disc Degeneration on Mechanical and Electrical Signals at the Interface between Disc and Vertebra. Orthopaedic Research Society 2020 Annual Meeting. New Orleans, LA. February 5, 2020.

IN REVIEW

1. Zhan, M., **Chen, S.** (equal contributions), Levy, R., Lu, J., Gibson, E. (in review), Rational Sentence Interpretation in Mandarin Chinese.

2. **Chen, S.**, Futrell, R., Mahowald, K. (in review), Investigating information-theoretic properties of the typology of spatial demonstratives
3. **Chen, S.**, Nathaniel, S., Ryskin, R., Gibson, E., (in prep), Effect of Context in Sentence Comprehension.

Awards, Fellowships, & Grants ---

2020- **Hilibrand Fellowship**, MIT Dept of Brain and Cognitive Sciences

Presentations ---

INVITED TALKS

Fall 2021. *Investigating the efficiency of spatial deictic adverbs*, Cog Lunch, MIT

Spring 2022. *Winawer et al. (2007) revisited: the role of language on color cognition*, Cog Lunch, MIT

Teaching Experience ---

Fall 2021	Computational Cognitive Science (9.66) , Teaching Assistant	MIT
Fall 2017	Mechanics of Solids I (CAE 210) , Grader	Univ. of Miami
Fall 2018, Spring 2019	Calculus II review session , Peer Tutor	Univ. of Miami

Mentoring ---

Summer 2022	Jorie Fleming , MSRP Student, Washington University in St Louis	Cambridge, MA
Summer 2022	Lia Washington , Post-Baccalaureate Reserch Scholar, MIT	Cambridge, MA

Outreach & Professional Development ---

PEER REVIEW

Open Mind