Ellis Cain

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https://ellisc.dev

EDUCATION

2021-Present   PhD student, Cognitive and Information Sciences
University of California, Merced, CA

2017-2021   B.S. in Cognitive Science with Highest Distinction
B.A. in East Asian Languages and Culture with Highest Distinction
Indiana University, Bloomington, IN

PAPERS

2023   **Cain, E.** & Ryskin, R. (2023). Diachronic Language Change and Its Influence on Lexico-semantic Representations Across the Lifespan. *In Proceedings of the Annual Meeting of the Cognitive Science Society* (Vol. 45, No. 45).

2022   **Cain, E.**, Ryskin, R., & Yu, C. (2022). Quantifying cross-situational statistics during parent-child toy play. *In Proceedings of the Annual Meeting of the Cognitive Science Society* (Vol. 44, No. 44).

Zhang, Y., **Cain, E.**, Crandall, D., & Yu, C. (2022). Grounding Action Verbs in Egocentric Visual Perception. *In Proceedings of the Annual Meeting of the Cognitive Science Society* (Vol. 44, No. 44).

2021   Zhang, Y., Amatuni, A., **Cain, E.**, Wang, X., Crandall, D., & Yu, C. (2021). Human Learners Integrate Visual and Linguistic Information Cross-Situational Verb Learning. *In Proceedings of the Annual Meeting of the Cognitive Science Society* (Vol. 43, No. 43).

2020   Zhang, Y., Amatuni, A., **Cain, E.**, & Yu, C. (2020). Seeking Meaning: Examining a Cross-situational Solution to Learn Action Verbs Using Human Simulation Paradigm. *In Proceedings of the Annual Meeting of the Cognitive Science Society* (Vol. 42, No. 42).

PRESENTATIONS

2023   **Cain, E.** & Ryskin, R. (2023). Diachronic Language Change and Its Influence on Lexico-semantic Representations Across the Lifespan. *At the Annual Meeting of the Cognitive Science Society.* Sydney, Aus

Cain, E. (2023). Teaching An Old Dog New Tricks? Learning Rates, Aging, And Language Change. *At California Workshop on Evolutionary Social Science* (CWESS). Merced, California

2022   **Cain, E.**, Ryskin, R., & Yu, C. (2022). Quantifying cross-situational statistics during parent-child toy play. *At the Annual Meeting of the Cognitive Science Society*.

Cain, E., & Ryskin, R. (2022). Diachronic language change and meaning across the lifespan. *At Architectures and Mechanisms of Language Processing* (AMLaP). York, UK

RESEARCH EXPERIENCE

2021-Present   <u>Language, Interaction, and Cognition Lab</u>   Dr. Rachel Ryskin
Exploring language development over the lifespan of an individual, semantic representation, and neural activity during language task performance.

2020-Present   <u>Developmental Intelligence Lab</u>   Dr. Chen Yu
Extension of previous work in cross-situational learning and contextual diversity, conducted an analysis of a parent-child toy play video corpus exploring the patterns in temporal continuity and contextual diversity and their effect on attention.

2020   <u>Cognitive Development Lab</u>   Dr. Linda Smith
Adapting a Eulerian magnification algorithm to detect heartbeats from previously recorded videos of infant eyes during an eye-tracking experiment.

2019-2020   <u>Computational Cognition and Learning Lab</u>   Dr. Chen Yu
Semantic analysis for a cross-situational learning study using the Human Simulation Paradigm.

TEACHING EXPERIENCE

2022   Guest lecture on statistical learning, University of California, Merced
Course: *Introduction to Language and Linguistics*

2021-2022   Teaching assistant, University of California, Merced
Courses: *Introduction to Cognitive Science*

GRANTS AND FELLOWSHIPS

2023   MacKenzie Scott Graduate Student Supplemental Travel Award