

# Zhuang Harvey Qiu

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## Education

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| 2018 – 2022 | <b>PhD in Linguistics</b><br>University of California, Davis<br>Dissertation: Processing Nested Epistemic Expressions   |
| 2020 – 2021 | <b>MA in Psychology</b><br>University of California, Davis<br>Thesis: Syntactic Prediction in Language Processing   |
| 2016– 2018  | <b>MA in Linguistics</b><br>University of California, Davis<br>Thesis: Processing Nested Epistemic Vocabulary: Epistemic Strength and the Order of Embedding  |
| 2013– 2016  | <b>MA in Applied Linguistics</b><br>Peking University, China<br>Thesis: Capturing Poe in the Gothic Tales — Exploring Allan Poe’s Stylistic Distinctiveness from a Computational Stylistic Approach |
| 2009 – 2013 | <b>BA in English</b><br>Chongqing University, PRC   |
| 2011 – 2012 | <b>Non-EU Exchange Program</b><br>Newcastle University, UK  |

## Research Experience

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| 2022 –      | <b>Postdoctoral Fellow</b><br><b>Language Processing Lab, CUHK, HK SAR</b><br>Investigate predictive language processing using eye-tracking technology. Collaborate on research projects related to large language models (LLMs) and experimental pragmatics.  |
| 2017 – 2022 | <b>Senior Lab Researcher</b><br><b>Ferreira Lab, UC Davis, Davis, CA, US</b><br>Conducted research on the psychological mechanisms of syntactic and semantic processing. Utilized eye-tracking technology and judgment tasks to study language processing. Contributed to publications and presentations based on research findings. |

2018 Data Annotator  
Lausanne Business Solution, Philadelphia, PA, US  
Analyzed and annotated corpus data for a machine learning project. Assisted in data preprocessing and quality control.

## Teaching Experience

### Teaching Experience as an Instructor:

Fall 2021 Languages of the World, UC Davis, USA  
Summer 2020 Introduction to Linguistics, UC Davis, USA  
2014 – 2016 College English, Peking University, PRC

### Teaching Experience as a Teaching Assistant:

Spring 2022 Cognitive Psychology, UC Davis, USA  
Winter 2022 Semantics, UC Davis, USA  
Winter 2020 Introduction to Psycholinguistics, UC Davis, USA  
Spring 2020 Typology, UC Davis, USA  
2016 – 2019 Introduction to Linguistics, UC Davis, USA

## Fellowships and Awards

2023 Dr. Barbara Kwok Young Postdoctoral Researcher Travel Grants, CUHK  
2022 Nancy Webb Scholarship, University of California, Davis  
Grad Studies Block Grant, University of California, Davis  
2020 Steven G. Lapointe Award, University of California, Davis  
2010 China National Scholarship, The State Council of China

## Publications

### Published:

**Qiu, Z.**, Duan, X., and Cai, Z. (2023). Does ChatGPT Resemble Humans in Processing Implicatures? In *Proceedings of the 4th Natural Logic Meets Machine Learning Workshop*. Association for Computational Linguistics. <https://aclanthology.org/2023.naloma-1.3/>  
**Qiu, Z.**, Felton, C. D, Houghton, Z. N, & Jasbi, M. (2023). Task Variation in Scalar Implicature Computation. *Proceedings of the Annual Meeting of the Cognitive Science Society*, 45.3751  
**Qiu, Z.**, and Ferreira, F. (2022). "He May Certainly Have Forgotten": Processing of Nested Epistemic Expressions, *Discourse Processes*, DOI: 10.1080/0163853X.2022.2077064  
Ferreira, F., and **Qiu, Z.** (2021). Predicting syntactic structure. *Brain Research*, 1770, 147632. <https://doi.org/10.1016/j.brainres.2021.147632>  
**Qiu, Z.**, and Su, Q. (2014). "Guo1" and "Guo2" in Chinese temporal system, *Proceedings of the 28th Pacific Asia Conference on Language, Information and Computation*. 568-574.

## Under Review:

**Qiu, Z.**, Duan, X., and Cai, Z. (Under review). Pragmatic Implicature Processing in ChatGPT, *British Journal of Psychology*. <https://osf.io/preprints/psyarxiv/qtbh9/>

**Qiu, Z.**, Duan, X., and Cai, Z. (Under review). Grammaticality Representation in ChatGPT as Compared to Linguists and Laypeople, *British Journal of Psychology*.

## Preprints:

**Qiu, Z.**, Ferreira, F., and Morgan, E. (2023). *Word Order and Adjacency in the Processing of Nested Epistemic Expressions*, <https://osf.io/preprints/psyarxiv/rbe3f/>

**Qiu, Z.** (2022). *Bridging Gap between Language Science and Personality Psychology: Individual Differences in Understanding Deceptive Verbal Behaviors*.  
<https://doi.org/10.31234/osf.io/bmzsa>

**Qiu, Z.**, & Ferreira, F. (2022). *The Processing of Nested Epistemic Expressions*.  
<https://doi.org/10.1080/0163853X.2022.2077064>

## Presentations

### Talks (Oral Presentations):

**Qiu, Z.**, Duan, X., and Cai, Z. (2023 June). Processing Implicatures in ChatGPT: A Pragmatic Turing Test, *Natural Logic Meets Machine Learning Workshop for the 15th International Conference on Computational Semantics*.

**Qiu, Z.**, Duan, X., and Cai, Z. (2023 June). Does ChatGPT Resemble Humans in Judgements of Grammatical Acceptability? *CogSci 2023 Hong Kong Meetup & Workshop*.

Chu, J., Zhou, S., **Qiu, Z.**, and Salinas, M. (2022 May). Lying with implicatures: the differences between truth and lies in children, *8th Annual UC Davis Symposium on Language Research*.

**Qiu, Z.** (2018 May). A study on the epistemic strength of nested epistemic vocabulary, *Fifth Annual UC Davis Symposium on Language Research*.

**Qiu, Z.**, and Su, Q. (2017 July). Capturing Poe in the Gothic Tales — Exploring Allan Poe's Stylistic Distinctiveness from Computational Stylistic Approach, *The Corpus Linguistics International Conference 2017*.

**Qiu, Z.**, and Su, Q. (2014 December). "Guo1" and "Guo2" in Chinese temporal system, *28th Pacific Asia Conference on Language, Information and Computation, PACLIC 2014*

### Poster Presentations:

**Qiu, Z.**, Felton, C., Houghton, Z., and Jasbi, M. (2024 January). Experimental Paradigms Influence Scalar Implicature Estimation, *The 6<sup>th</sup> California Meeting on Psycholinguistics*.

**Qiu, Z.**, Duan, X., and Cai, Z. (2023 December). Examining ChatGPT's grammatical intuition: convergence with linguistic experts and laypeople, *Architectures and Mechanisms for Language Processing Asia 2023 (AMLaP Asia 2023)*.

**Qiu, Z.**, Duan, X., Cai, Z., and Zhao, N. (2023 September). Pragmatic Implicature Processing in ChatGPT, *Architectures and Mechanisms for Language Processing 2023 (AMLaP 29)*.

**Qiu, Z.**, Felton, C., Houghton, Z., and Jasbi, M. (2023 July). Task Variation in Scalar Implicature Computation, *The 45th annual meeting of the Cognitive Science Society*.

**Qiu, Z.**, Ferreira, F., and Morgan, E. (2023 March). Epistemic modals and evidential parentheticals interact in language comprehension, *The 36th Annual Conference on Human Sentence Processing*.

Rehrig, G., Barker, M., Cotter, B., Liu, Z., **Qiu, Z.**, and Ferreira, F. (2022 March). Trade-offs between memory retrieval and planning in language production, *The 35th Annual Conference on Human Sentence Processing*.

Ferreira, F., Rehrig, G., Barker, M., Beier, E., Chantavaran, S., Cotter, B., **Qiu, Z.**, Lowder, M., and Karimi, H. (2021 March). Back to the Future: Do Influential Results from 1980s Psycholinguistics Replicate? *The 34th Annual CUNY Conference on Human Sentence Processing*.

**Qiu, Z.**, and Ferreira, F. (2020 March). "He may certainly have forgotten": the processing of nested epistemic expressions, *The 33rd Annual CUNY Conference on Human Sentence Processing*.

## Skills

### Eye Tracking

Extensive experience conducting psychological experiments using eye-tracking methods.

### Data Science

Solid foundation in corpus analysis, stylometry, data wrangling, visualization and statistical modeling using frequentist and Bayesian statistics. Skilled in statistical software such as R for advanced data analysis.

### Programming

R: Proficient in data analysis, including advanced statistical techniques.

Python: Competent in performing basic Natural Language Processing (NLP) tasks using Python packages.

LaTeX: Experienced in using Overleaf for document preparation.

### Psychometrics

Proficient in designing, conducting, and evaluating surveys and other types of assessments.

### Teaching

Extensive experience in higher education, teaching college-level courses since 2015.

## Professional Service

### Journal Reviews:

2024 Journal of Memory and Language, Co-Reviewer

2023 Language and Cognition, Reviewer

2023 Journal of Memory and Language, Co-Reviewer

**Conference Reviews:**

2024 The 37th Annual Conference on Human Sentence Processing

2023 California Meeting on Psycholinguistics

2023 Architectures and Mechanisms for Language Processing Asia (AMLaP Asia)

2022 Chinese Lexical Semantic Workshop (CLSW 2022)