

Zhuang Harvey Qiu

+852 55019232

zhuanggqiu@cuhk.edu.hk

<https://pon2020.github.io>

G36A, Leung Kau Kui Building,

The Chinese University of Hong Kong, Shatin, NT, Hong Kong SAR

Education

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

Research Experience

2022 –	Postdoctoral Fellow Language Processing Lab, CUHK, HK SAR Investigate predictive language processing using eye-tracking technology. Collaborate on research projects related to large language models (LLMs) and experimental pragmatics.
2017 – 2022	Senior Lab Researcher Ferreira Lab, UC Davis, Davis, CA, US 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.
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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 (NALOMA 23)*. Association for Computational Linguistics.

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., Ferreira, F., and Morgan, E. (Under review). Word Order and Adjacency in the Processing of Nested Epistemic Expressions, *Glossa: a journal of general linguistics*. <https://osf.io/preprints/psyarxiv/rbe3f/>

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

Presentations

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., Duan, X., and Cai, Z. (Forthcoming), 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., Chantavarán, 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 Review:

2023 Journal of Memory and Language, Co-Reviewer

Conference Reviews:

2023 California Meeting on Psycholinguistics, Reviewer

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

2022 Chinese Lexical Semantic Workshop (CLSW 2022), Reviewer

Community Service

2018 – 2019, Volunteer translator/interpreter, STEAC’s Holiday Program,
Short Term Emergency Aid Committee, Davis, CA, US
<http://www.steac.org/index.php>

2017 – 2018, Volunteer tutor, Intercambio Language Exchange Program,
Montgomery Elementary School, Davis, CA, US
<https://www.davisenterprise.com/news/community/join-the-intercambio-community-at-montgomery-elementary/>