MENGYANG QIU

mengyang@buffalo.edu

https://mengyang.dev

EDUCATION

University at Buffalo, Buffalo, NY

Ph.D., Communicative Disorders and Sciences (CogSci Track)   2016–2022(Expected)

    Advisors: Brendan T. Johns, Ph.D.; Nichol Castro, Ph.D.

M.S., Computational Linguistics   2018–2019

    M.S. Project: Artificial Error Generation with Fluency Filtering

    Advisor: Jungyeul Park, Ph.D.

M.A., General Linguistics   2013–2016

    M.A. Project: Verb Aspect and the Activation of Location Information

    Advisor: Jean-Pierre Koenig, Ph.D.

B.A., Psychology & Linguistics (Honors in Language and Cognition)   2010–2013

McGill University, Montreal, QC

Graduate Research Trainee   Fall 2021

    McGill Cognitive Computing Lab, Department of Psychology

    Advisor: Brendan T. Johns, Ph.D.

PUBLICATIONS

Qiu, **M.**, & Johns, B. T. (2021). A distributional and sensorimotor analysis of noun and verb fluency. *PsyArXiv*. doi:10.31234/osf.io/e9n8w.

Qiu, **M.**, Castro, N., & Johns, B. T. (2021). Structural comparisons of noun and verb networks in the mental lexicon. In *Proceedings of the 43rd Annual Conference of the Cognitive Science Society* (pp. 1649–1655). Retrieved from https://escholarship.org/uc/item/4b20s6wp.

Qiu, **M.**, & Johns, B. T. (2020). Semantic diversity in paired-associate learning: Further evidence for the information accumulation perspective of cognitive aging. *Psychonomic Bulletin & Review*, *27*(1), 114–121. doi:10.3758/s13423-019-01691-w.

Qiu, **M.**, & Park, J. (2019). Artificial error generation with fluency filtering. In *Proceedings of the Fourteenth Workshop on Innovative Use of NLP for Building Educational Applications* (pp. 87–91). doi:10.18653/v1/W19-4408.

Qiu, **M.**, Chen, X., Liu, M., Parvathala, K., Patil, A., & Park, J. (2019). Improving precision of grammatical error correction with a cheat sheet. In *Proceedings of the Fourteenth Workshop on Innovative Use of NLP for Building Educational Applications* (pp. 240–245). doi:10.18653/v1/W19-4425.

CONFERENCE PRESENTATIONS & POSTERS

Qiu, **M.**, & Castro, N. (submitted). Developing a web-based stimulus selection hub for anomia treatment using R and Shiny.

Qiu, **M.**, & Castro, N. (2021, October). Comparing semantic networks of early vocabulary across languages. Talk presented at *Complexity and Cognition: Satellite Symposium at the Conference on Complex Systems 2021*.

Qiu, **M.** (2020, November). Using natural language processing for language sample analysis. Proposal accepted at the *Annual Convention of the American Speech-Language-Hearing Association*, San Diego, CA (Convention canceled due to COVID-19).

Sun, S., & **Qiu**, **M.** (2020, November). Early production of animal vocabulary in Mandarin Chinese and American English. Proposal accepted at the *Annual Convention of the American Speech-Language-Hearing Association*, San Diego, CA (Convention canceled due to COVID-19).

Qiu, **M.**, & Johns, B. T. (2018, November). Memory searching pathway underlying verb fluency. Poster presented at the *Annual Convention of the American Speech-Language-Hearing Association*, Boston, MA.

Min, H., Guo, L., Higginbotham, D. J., & **Qiu**, **M.** (2018, November). How does writing medium influence the operation of writing processes and writing quality? Poster presented at the *Annual Convention of the American Speech-Language-Hearing Association*, Boston, MA.

HONORS & AWARDS

University at Buffalo, Buffalo, NY

Mark Diamond Research Fund, $2964	2020–2021
GSA Conference Funding, $550	2018
New York State Graduate Student Employees Union Award, $2202.50	2015
Wolfgang Wölck Outstanding Graduating Senior Award, $250	2013

RESEARCH EXPERIENCE

University at Buffalo, Buffalo, NY

Graduate Research Assistant | PI: Nichol Castro, Ph.D.   2020–Present
    Adult Language Network Lab
    Department of Communicative Disorders and Sciences

Programmer | PI: Thea Knowles, Ph.D.   Spring 2020
    Clinical Applications of Speech Acoustics Lab
    Department of Communicative Disorders and Sciences

Project Leader | Supervisor: Jungyeul Park, Ph.D.   Spring 2019
    Grammatical Error Correction Project, Department of Linguistics

Graduate Research Assistant | PI: Brendan T. Johns, Ph.D.   2016–2019
    Computational Language and Memory Lab
    Department of Communicative Disorders and Sciences

Graduate Research Assistant | PI: Christopher McNorgan, Ph.D.   Summer 2017
    Computational Cognitive Neuroscience Lab, Department of Psychoplogy

Undergraduate Research Assistant | PI: Gail Mauner, Ph.D.   2012–2013
    Psycholinguistics Lab, Department of Psychoplogy

Undergraduate Research Assistant | PI: Paul Luce, Ph.D.   Summer 2012
    Language Perception Lab, Department of Psaychology

Undergraduate Research Assistant | PI: Eon-Suk Ko, Ph.D.   Summer 2011
    Child Language Development Project, Department of Linguistics

TEACHING EXPERIENCE

As Instructor

Trent University, Peterborough, ON

PSYC 2400: Introduction to Cognitive Psychology	Winter 2022
PSYC 3451: Psychology of Language	Winter 2022

University of Guelph, Guelph, ON

PSYC 1010: Making Sense of Data in Psychological Research	Winter 2022

University at Buffalo, Buffalo, NY

CHI 101 & 102: First-Year Chinese	2013–2015

As Teaching Assistant
University of Toronto Scarborough, Scarborough, ON
    LINB 60: Comparative Study of English and Chinese   Winter 2022
    PSYC 70: Advanced Research Methods Laboratory   Winter 2022
University at Buffalo, Buffalo, NY
    CDS 151: Introduction to Speech-Language Pathology and Audiology   2016–2021
    CDS 564: Language Disorders in Adults   2017–2019
    CDS 480/687: Disorders of Memory   2017–2019

PROFESSIONAL SERVICE & AFFILIATIONS

Journal Article Reviews
    Behavior Research Methods (Under the supervision of Nichol Castro, Ph.D.)
    Journal of Speech, Language, and Hearing Research (Under the supervision of Ling-Yu Guo, Ph.D.)
Conference Reviews
    Workshop on Innovative Use of NLP for Building Educational Applications   2020–Present
Member
    Cognitive Science Society   2021–Present
    ACL Special Interest Group for Building Educational Applications   2019–Present

TECHNICAL SKILLS

Programming: Python, Javascript, Java, R, Matlab
Experiment: jsPsych, PsychoPy/JS, JATOS, psiTurk, E-Prime
NLP: PyTorch, Keras, SpaCy, NLTK
Others: LaTeX, Git, Prolog, Praat

OTHER INFORMATION

Citizenship: China
Permanent Residency: Canada
Languages: Mandarin (native), English (fluent), Cantonese (receptive)