

MENGYANG QIU

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EDUCATION

University at Buffalo, Buffalo, NY

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

Advisor: Brendan T. Johns, 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. (2021, October). Comparing semantic networks of early vocabulary across languages. Talk to be 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. Adult Language Network Lab Department of Communicative Disorders and Sciences	2020–Present
Programmer PI: Thea Knowles, Ph.D. Clinical Applications of Speech Acoustics Lab Department of Communicative Disorders and Sciences	Spring 2020
Project Leader Supervisor: Jungyeul Park, Ph.D. Grammatical Error Correction Project, Department of Linguistics	Spring 2019
Graduate Research Assistant PI: Brendan T. Johns, Ph.D. Computational Language and Memory Lab Department of Communicative Disorders and Sciences	2016–2019
Graduate Research Assistant PI: Christopher McNorgan, Ph.D. Computational Cognitive Neuroscience Lab, Department of Psychology	Summer 2017
Undergraduate Research Assistant PI: Gail Mauner, Ph.D. Psycholinguistics Lab, Department of Psychology	2012–2013
Undergraduate Research Assistant PI: Paul Luce, Ph.D. Language Perception Lab, Department of Psychology	Summer 2012
Undergraduate Research Assistant PI: Eon-Suk Ko, Ph.D. Child Language Development Project, Department of Linguistics	Summer 2011

TEACHING EXPERIENCE

University at Buffalo, Buffalo, NY

Teaching Assistant, Department of Communicative Disorders and Sciences CDS 151: Introduction to Speech-Language Pathology and Audiology CDS 564: Language Disorders in Adults CDS 480/687: Disorders of Memory	2016–2021
Instructor, Department of Linguistics CHI 101 & 102: First-Year Chinese	2013–2015

University of Toronto Scarborough, Scarborough, ON
Sessional Instructional Assistant, Department of Language Studies
LINA01: Introduction to Linguistics (online)

Fall 2021

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: L^AT_EX, Git, Prolog, Praat

OTHER INFORMATION

Citizenship: China

Permanent Residency: Canada

Languages: Mandarin (native), English (fluent), Cantonese (receptive)