

# Mengyang Qiu

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<https://mengyang.dev>

## Education

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| <b>University at Buffalo, The State University of New York</b>               |                     |
| <b>Ph.D., Communicative Disorders and Sciences (CogSci Track)</b>            | 2016–2021(Expected) |
| Advisor: Brendan T. Johns, Ph.D.   |                     |
| <b>M.S., Computational Linguistics</b>                                       | 2018–2019           |
| M.S. Project: Artificial Error Generation with Fluency Filtering             |                     |
| Advisor: Jungyeul Park, Ph.D.  |                     |
| <b>M.A., General Linguistics</b>   | 2013–2016           |
| M.A. Project: Verb Aspect and the Activation of Location Information         |                     |
| Advisor: Jean-Pierre Koenig, Ph.D.   |                     |
| <b>B.A., Psychology &amp; Linguistics (Honors in Language and Cognition)</b> | 2010–2013           |

## Honors and Awards

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| <b>University at Buffalo, The State University of New York</b>   |           |
| 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      |

## Publications

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- Qiu, M.**, Castro, N., & Johns, B. T. (accepted). Structural comparisons of noun and verb networks in the mental lexicon. In *Proceedings of the 43rd annual conference of the cognitive science society*.
- 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 and Posters

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- 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).
- 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).

**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.

## Research Experience

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| <b>University at Buffalo, The State University of New York</b>  |              |
| <b>Graduate Research Assistant</b>   PI: Nichol Castro, Ph.D.<br>Adult Language Network Lab<br>Department of Communicative Disorders and Sciences               | 2020–Present |
| <b>Programmer</b>   PI: Thea Knowles, Ph.D.<br>Clinical Applications of Speech Acoustics Lab<br>Department of Communicative Disorders and Sciences              | Spring 2020  |
| <b>Project Leader</b>   Supervisor: Jungyeul Park, Ph.D.<br>Grammatical Error Correction Project, Department of Linguistics                                     | Spring 2019  |
| <b>Graduate Research Assistant</b>   PI: Brendan T. Johns, Ph.D.<br>Computational Language and Memory Lab<br>Department of Communicative Disorders and Sciences | 2016–2019    |
| <b>Graduate Research Assistant</b>   PI: Christopher McNorgan, Ph.D.<br>Computational Cognitive Neuroscience Lab, Department of Psychoplogy                     | Summer 2017  |
| <b>Undergraduate Research Assistant</b>   PI: Gail Mauner, Ph.D.<br>Psycholinguistics Lab, Department of Psychoplogy  | 2012–2013    |
| <b>Undergraduate Research Assistant</b>   PI: Paul Luce, Ph.D.<br>Language Perception Lab, Department of Psaychology  | Summer 2012  |
| <b>Undergraduate Research Assistant</b>   PI: Eon-Suk Ko, Ph.D.<br>Child Language Development Project, Department of Linguistics                                | Summer 2011  |

## Teaching Experience

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| <b>University at Buffalo, The State University of New York</b>   |           |
| <b>Teaching Assistant, Department of Communicative Disorders and Sciences</b><br>CDS 151: Introduction to Speech-Language Pathology and Audiology<br>CDS 564: Language Disorders in Adults<br>CDS 480/687: Disorders of Memory | 2016–2021 |
| <b>Lecturer, Department of Linguistics</b><br>CHI 101 & 102: First-Year Chinese  | 2013–2015 |

## Professional Service

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| <b>Reviewer</b>   Workshop on Innovative Use of NLP for Building Educational Applications                                  | 2020–Present |
| <b>Student Reviewer</b>   Journal of Speech, Language, and Hearing Research<br>Under the supervision of Ling-Yu Guo, Ph.D. | 2017         |

## Technical Skills

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**Programming:** Python, Javascript, Java, R, Matlab  
**Experiment:** jsPsych, PsychoPy/JS, JATOS, psiTurk, E-Prime  
**NLP:** PyTorch, Keras, SpaCy, NLTK  
**Others:** L<sup>A</sup>T<sub>E</sub>X, Git, Prolog, Praat

## Other Information

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**Citizenship:** China

**Permanent Residency:** Canada

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