

# Mengyang Qiu

## Curriculum Vitae

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### Education

University at Buffalo, The State University of New York, Buffalo, NY

2021(Expected) **Ph.D.**, Communicative Disorders and Sciences.

2019(Expected) **M.S.**, Computational Linguistics.

2016 **M.A.**, General Linguistics.

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

*Advisor: Jean-Pierre Koenig, Ph.D.*

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

*summa cum laude*

### Research Experience

University at Buffalo, The State University of New York, Buffalo, NY

2019–Present **Project Leader**, Supervisor: Jungyeul Park, Ph.D.,  
BEA 2019 Shared Task: Grammatical Error Correction, Department of Linguistics.

Duties:

- supervising four master's students in this project
- experimenting statistical machine translation and neural machine translation approaches to grammatical error correction
- using real errors and surrounding context to generate artificial grammatical error sentences for data augmentation
- examining current evaluation metrics for data augmentation

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

Duties:

- learned to use SPM12 in Matlab to analyze fMRI data
- worked on an fMRI experiment using lexical decision task with a word frequency manipulation

2016–Present **Graduate Research Assistant**, PI: Brendan Johns, Ph.D.,  
Language and Memory Lab, Department of Communicative Disorders and Sciences.

Duties:

- developing automated assessment procedures using computational models of language and memory to detect Mild Cognitive Impairment, Alzheimer's disease and other forms of dementia
- working on experiments to delineate the natural changes that occur as a consequence of increasing amounts of experience during aging from actual cognitive decline

- 2013–2017 **Graduate Member**, PI: Gail Mauner, Ph.D.,  
Psycholinguistics Lab, Department of Psychoplogy.
- 2012–2013 **Undergraduate Research Assistant**, PI: Gail Mauner, Ph.D.,  
Psycholinguistics Lab, Department of Psychoplogy.  
Duties:
- ran participants in various experiments (e.g., relationship between the verb and its participants, the choice of sentence structure in online sentence processing, the processing and mental representation of lexical ambiguity, and repetition and semantic priming)
  - generated experimental items (synonyms, antonyms, and categorical coordinates); examined various characteristics of words and word pairs (e.g., word frequencies, and forward and backward associations)
  - analyzed data from previous undergraduate research project on repetition priming effects
- Summer 2012 **Undergraduate Research Assistant**, PI: Paul Luce, Ph.D.,  
Language Perception Lab, Department of Psaychology.  
Duties:
- extracted experimental stimuli (words, nonwords, rhymes, and onsets) from long sound files using Praat
  - labeled experimental stimuli using computer-readable Klattese transcription
- Summer 2011 **Undergraduate Research Assistant**, PI: Eon-Suk Ko, Ph.D.,  
Child Language Development Project, Department of Linguistics.  
Duties:
- analyzed phonetic data of utterance-final word in child-directed speech
  - prepared experimental stimuli for the project on effects of speaking rate on the vowel duration using Praat

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## Teaching Experience

University at Buffalo, The State University of New York, Buffalo, NY

As Teaching Assistant

- 2016–Present **CDS 151: Intro to Speech-Language Pathology**,  
Department of Communicative Disorders and Sciences.

As Instructor

- 2013–2015 **CHI 101 & 102: First-Year Chinese**,  
Department of Linguistics.

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## Honors and Awards

University at Buffalo, The State University of New York, Buffalo, NY

- 2018 GSA Conference Funding, \$550
- 2013–Present Teaching Assistantship with Full Tuition Scholarship
- 2015 New York State Graduate Student Employees Union Award, \$2202.50
- 2013 Wolfgang Wolck Outstanding Graduating Senior Award, \$250
- 2010–2012 Dean's List

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## Publications

- In prep **Qiu, M.** & Johns, B. T. The effects of semantic diversity on paired associate learning: Continued evidence for the information accumulation perspective of cognitive aging.
- Under review **Qiu, M.** & Park, J. Artificial error generation with fluency filtering.  
**Qiu, M.**, Chen, X., Liu, M., Parvathala, K., Patil, A. & Park, J. Improving precision of grammatical error correction with cheat sheet.
- 2018 **Qiu, M.** & Johns, B. T. Memory searching pathway underlying verb fluency. Poster presented at the *2018 ASHA Convention*.  
Min, H., Guo, L., Higginbotham, D. J., & **Qiu, M.** How does writing medium influence the operation of writing processes and writing quality? Poster presented at the *2018 ASHA Convention*.

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## Professional Service

### Student Reviewer

- 2017 **Journal of Speech, Language, and Hearing Research**,  
(Under the supervision of Dr. Ling-Yu Guo).

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## Techincal Skills

- Programming Java, Python, Javascript  
Statistics R, Matlab, SPSS  
Experiment psiTurk, jsPsych, JATOS  
Others L<sup>A</sup>T<sub>E</sub>X, AWS, Google Cloud, Prolog, Praat