

# MENGYANG QIU

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<https://mengyang.dev>

## EDUCATION

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### 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

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**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

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Stipancic, K. L., van Brenk, F., **Qiu, M.**, & Tjaden, K. (submitted). Progress toward estimating the minimal clinically important difference of speech intelligibility: A crowdsourced perceptual experiment.

**Qiu, M., & Castro, N.** (2022, May). Developing a web-based stimulus selection hub for anomia treatment using R and Shiny. Poster to be presented at the *51st Clinical Aphasiology Conference*.

**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

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NIDCD Research Symposium in Clinical Aphasiology Student Fellowship, \$1700	2022
Mark Diamond Research Fund, University at Buffalo, \$2964	2020–2021
New York State Graduate Student Employees Union Award, \$2202.50	2015
Wolfgang Wölck Outstanding Graduating Senior Award, University at Buffalo, \$250	2013

## RESEARCH EXPERIENCE

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

## TEACHING EXPERIENCE

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<b>As Instructor</b>	
<b>Trent University, Peterborough, ON</b>	
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 &amp; 102: First-Year Chinese

2013–2015

**As Teaching Assistant/Guest Lecturer****University of Toronto Scarborough, Scarborough, ON**

LINB 60: Comparative Study of English and Chinese

Winter 2022

PSYC 70: Advanced Research Methods Laboratory

Winter 2022

LINA 01: Introduction to Linguistics

Fall 2021

**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

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**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**

The Annual Meeting of the Cognitive Science Society

2022–Present

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

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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)

## REFERENCES

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**Brendan T. Johns, Ph.D.**

Assistant Professor  
Director of the McGill Cognitive Computing Lab  
Department of Psychology  
McGill University  
brendan.johns@mcgill.ca  
<http://btjohns.com>

**Nichol Castro, Ph.D.**

Assistant Professor  
Director of the Adult Language Network Lab  
Department of Communicative Disorders and Sciences  
University at Buffalo  
nicholca@buffalo.edu  
<https://sites.google.com/view/alnlab>

**Jeff Higginbotham, Ph.D.**

Professor, ASHA Fellow  
Director of the Communication and Assistive Device Lab  
Department of Communicative Disorders and Sciences  
University at Buffalo  
cdsjeff@buffalo.edu  
<https://ubwp.buffalo.edu/cadl>

**Christopher McNorgan, Ph.D.**

Assistant Professor  
Director of the Computational Cognitive Neuroscience Lab  
Department of Psychology  
University at Buffalo  
cpmcnorg@buffalo.edu  
<http://ccnlab.buffalo.edu>