

Yoichi Mukai

Current Position

2019- Faculty, Modern Languages Studies Department, Vancouver Island University
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Citizenship

Citizenship: Japan; Permanent residence: Canada

Research interests

Phonetics; Psycholinguistics; Pupillometry; Second language pronunciation and comprehension; Japanese Linguistics; Quantitative research method; R; Data analysis and visualization

Education

- 2014-20 PhD in Linguistics, University of Alberta, Canada.
Dissertation: “Production and perception of reduced speech and the role of phonological-orthographic consistency” Supervisors: Dr. Benjamin V. Tucker and Dr. Juhani Järvikivi
- 2012-14 MA in Applied Linguistics and Discourse Studies, Carleton University, Canada.
Thesis: “The processability hierarchy in second language acquisition: Advanced learners of Japanese as a second language” Supervisor: Dr. David Wood
- 2009-10 Teachers of English as a Second/Foreign Language Certification Program, Algonquin College, Canada
- 2003 BA (Honors) in Community Policy, Aichi Gakusen University, Japan

Additional Programs

- 2017 Visiting PhD student, Nagoya University, Japan
- 2015 Linguistic Society of America Institute, University of Chicago, USA
- 2015,16 Spring Training in Experimental Psycholinguistics, University of Alberta, Canada

Teaching Experiences

- 2019- Instructor: JAPA 100, 101, 200, 201, Basic Japanese I & II, Intermediate Japanese I & II, and LING 111, Intro to Descriptive Linguistics
Department of Modern Languages, Vancouver Island University
- 2018,19 Instructor: LING 205, Phonetics
Department of Linguistics, University of Alberta
- 2015-19 Teaching Assistant: LING 101, Introduction to Linguistics; LING 205, Phonetics
Department of Linguistics, University of Alberta
- 2014 Instructor: Conversational Japanese
School of Linguistics and Language Studies & Summer Institute of Language and

Culture, Carleton University

- 2014 Instructor: Elementary Japanese
Interlanguages Language School, the Canadian Foreign Service Institute, the Learning Institution of the Global Affairs Canada
- 2012 Instructor: Introduction to Japanese
Université du Québec en Outaouais
- 2011-14 Teaching Assistant: Japanese
School of Linguistics and Language Studies, Carleton University
- 2010-14 Instructor: Japanese (Elementary to Advanced)
Ottawa Japanese Language School

Research Experiences

- 2018 Research Assistant for Dr. Esther S. Kim: Preprocessed, analyzed and visualized pupillometric data of person with aphasia, Department of Communication Science and Disorders, University of Alberta
- 2017-18 Editorial Assistant for Linguistics Abstract Online: Formatted and entered journal abstracts of scholarly articles in online database, Department of Linguistics, University of Alberta
- 2015-16 Research Assistant for Dr. Benjamin V. Tucker: Assisted in developing an interactive online phonetics course and lab activities for the project “*Developing Interactive Online Lab Activities and an Online Course for Phonetics*”, Department of Linguistics, University of Alberta
- 2014-15 Research Assistant for Dr. Benjamin V. Tucker: Designed a pupillometry experiment for the project “*Pupillary Responses to the Comprehension of Speech Variability and Spontaneous Speech*”, Department of Linguistics, University of Alberta
- 2014 Research Assistant for Dr. David Wood: Transcribed and translated spoken data (Japanese & English), and analyzed it quantitatively and qualitatively for the project “*Idiodynamic analysis of speech fluency and willingness to communicate in a second language*”, School of Linguistics and Language studies, Carleton University

Professional Service

- 2019, 20 Ad hoc reviewer, The Journal of the Acoustical Society of America; PLOS ONE
- 2018 Local organizing and scientific review committee, conference proceedings editor, The 11th International Conference on the Mental Lexicon, University of Alberta
- 2017-18 Research committee, Prince Takamado Japan Centre, University of Alberta
- 2017 Graduate student volunteer, Alberta District Japanese Language Speech Contest, Prince Takamado Japan Centre, University of Alberta
- 2016-17 Writer, Aichi Gakusen University alumni newspaper (short articles about linguistics (in Japanese), Aichi Gakusen University
- 2016 Planning committee, Spring Training in Experimental Psycholinguistics, University of Alberta
- 2013 Graduate student volunteer, Applied Linguistics and Discourse Studies Thesis Pro-

Conference Proceedings Papers

- 2018 **Mukai, Y.**, Järvikivi, J., & Tucker, B. V. (2018). The effect of phonological-orthographic consistency on the processing of reduced and citation forms of Japanese words: Evidence from pupillometry. In Emily Dmyterko (ed), *Proceedings of the 2018 annual conference of the Canadian Linguistics Association*.
- 2017 **Mukai, Y.**, & Tucker, B. V. (2017). The phonetic reduction of nasals and voiced stops in Japanese across speech styles. *Proceedings of the 31th General Meeting of the Phonetic Society of Japan*, Tokyo: The Phonetic Society of Japan.
- 2015 **Mukai, Y.**, & Tucker, B. V. (2015). Rhythm metrics and spontaneous speech in Japanese and English. *Canadian Acoustics*, 43(3), 114-115.

Selected manuscripts submitted or in preparation

Mukai, Y., & Tucker, B. V. (submitted). Phonetic variability of stops and nasals in Japanese across a range of speaking styles.

Wilson, C., **Mukai, Y.**, Figeys, M., Suleman, S., Garcia, R., & Kim, E.S. (in preparation). Examining cognitive control in people with aphasia.

Mukai, Y., & Tucker, B. V. (in preparation). Rhythm metrics and the timing pattern of read and spontaneous speech: The case of Japanese, English, and L2 English.

Mukai, Y., Järvikivi, J., & Tucker, B. V. (in preparation). Perception of reduced speech and the role of phonological-orthographic consistency: Evidence from pupillometry.

Mukai, Y., Järvikivi, J., & Tucker, B. V. (in preparation). The effect of phonological-orthographic consistency in the recognition of reduced speech for L2 speakers: Evidence from pupillometry.

Mukai, Y., & Järvikivi, J. (in preparation). Pupillometry and processing of morphologically (pseudo) complex words.

Presentations

- 2019 Pawlenchuk, M., **Mukai, Y.**, Tucker, B.V. (2019) Reduced flaps in English processed by non-native speakers. *2019 Acoustics Week in Canada*, Edmonton, Alberta, October 11-13.
- 2019 **Mukai, Y.** (2019) The effect of phonological-orthographic consistency and phonetic reduction in spoken word recognition. *The Department of Linguistics' 50th anniversary Conference*, University of Alberta, Edmonton, Alberta, April 13.
- 2018 Taylor, J., **Mukai, Y.**, & Miwa, K. (2018) Comparing the time courses of lexical processes in L1 and L2 word recognition: A lexical decision eye tracking study with Japanese-English bilinguals. *The 17th International Conference on the Processing of East Asian Languages and the 9th Conference on Language, Discourse, and Cognition (ICPEAL 17 – CLDC 9)*, National Taiwan University, Taipei, Taiwan, October 19-21.
- 2018 **Mukai, Y.** (2018) Does reduction influence the effect of phonological-orthographic

- consistency? Insights from pupillometry. *The 31st Japan Studies Association of Canada Annual Conference*, The University of Alberta, Edmonton, Canada, October 11-14.
- 2018 Taylor, J., Miwa, K. & **Mukai, Y.** (2018) Cross-linguistic similarity effects in L1 and L2 word recognition. *The 11th International Conference on the Mental Lexicon*, Edmonton, Canada, September 25-28.
- 2018 **Mukai, Y.**, Järvikivi, J., & Tucker, B. V. (2018) The phonological-orthographic consistency effect on reduced word forms in Japanese: Evidence from pupillometry with a delayed naming task. *The 11th International Conference on the Mental Lexicon*, Edmonton, Canada, September 25-28.
- 2018 **Mukai, Y.**, Tucker, B. V. & Järvikivi, J. (2018) The effect of phonological-orthographic consistency on the processing of reduced and citation forms of Japanese words: Evidence from pupillometry. *The Annual Conference of the Canadian Linguistic Association*, The University of Regina, Regina, Saskatchewan, May 30-June 1.
- 2018 **Mukai, Y.**, Wood, D. & Tucker, B.V. (2018) Rhythm and fluency: Durational variability as a perceptual correlate of fluency in L2 speech. *The Annual Conference of the Canadian Association of Applied Linguistics*, The University of Regina, Regina, Saskatchewan, May 28-30.
- 2017 **Mukai, Y.**, & Tucker, B. V. (2017). The phonetic reduction of nasals and voiced stops in Japanese across speech styles. *The 31th Generals Meeting of the Phonetic Society of Japan*, The University of Tokyo, Japan, September 30-October 1.
- 2017 **Mukai, Y.** (2017) Durational variability as perceptual correlates of fluency in L2 conversational speech. *MLCS Graduate Student Conference:(Dis)Connections*, University of Alberta, Edmonton, Alberta, February 2.
- 2017 **Mukai, Y.** (2017) Pupillometry and processing of morphologically complex words. *Generals Paper Conference Colloquium*, University of Alberta, Edmonton, Alberta, January 13.
- 2016 Porretta, V., **Mukai, Y.** & Tucker, B. V. (2016) What big eyes you have: Pupillary response to reduced speech. *The Tenth International Conference on the Mental Lexicon*, University of Ottawa, Ottawa, Canada, October 19-21.
- 2016 **Mukai, Y.** (2016) Comparison of timing patterns between read and spontaneous speech in Japanese, English, and L2 English using rhythm metrics. *Generals Paper Conference Colloquium*, University of Alberta, Edmonton, Alberta, February 5.
- 2015 **Mukai, Y.** & Tucker, B.V. (2015). Speech timing of spontaneous and read speech in Japanese and English. *The Alberta Conference on Linguistics*, Lethbridge, Alberta, October 31.
- 2015 **Mukai, Y.** & Tucker, B. V. (2015) Rhythm metrics of spontaneous speech and accent in Japanese and English. *The Annual Conference of the Canadian Acoustical Association*, Halifax, Nova Scotia, October 6-8.

Poster Presentations

- 2019 Tucker, B. V., Porretta, V., & **Mukai, Y.** (2019) Investigating the comprehension and perception of reduced speech with pupillary response *The 177th Meeting of Acoustical Society of America*, Louisville, Kentucky, May 13-17.

- 2018 **Mukai, Y.**, Järvikivi, J., & Tucker, B. V. (2018) The time-course of recognition of reduced Japanese words: Evidence from pupillometry with a Go-NoGo task *The 176th Meeting of Acoustical Society of America and 2018 Acoustics Week in Canada*, Victoria, BC, Canada, November 5-9.
- 2018 **Mukai, Y.** & Tucker, B. V. (2018) Phonetic variability of nasals and voiced stops in Japanese *The 175th Meeting of the Acoustical Society of America*, Minneapolis, Minnesota, May 7-11.
- 2017 **Mukai, Y.**, Aoki, H. & Daiju, S. (2017) Acquisition of L2 Japanese rhythm: How does durational variability change over time?. *The 9th Annual Pronunciation in Second Language Learning & Teaching Conference*, University of Utah, Salt Lake City, UT, September 1-2.
- 2016 **Mukai, Y.**, Järvikivi, J., Tucker, B. V., & Lõo, K. (2016) Pupil response as a processing measure of morphologically (pseudo) complex words. *The Tenth International Conference on the Mental Lexicon*, University of Ottawa, Ottawa, Canada, October 19-21.

Invited Presentations

- 2021 *Beyond Multilingualism: How Linguists Think and Talk about Language*, January 22, the VIU Arts and Humanities Colloquium Series, Vancouver Island University
- 2018 *The effect of speech style on phonetic reduction of nasals and voiced stops in Japanese*, January 24, Brown-Bag Lunch Talks, Prince Takamado Japan Centre, University of Alberta.
- 2017 *Analyzing linguistic data with linear mixed-effects modeling, generalized additive modeling, and random forest analysis*, December 19, Graduate School of Humanities, Nagoya University.
- 2017 *The effect of orthography in spoken word recognition*, September 28, Graduate School of Letters, Arts and Sciences, Waseda University
- 2016 *Pupillometry as a processing measurement of morphologically complex word and How much do durational variations matter? & Modeling the perception of fluency and accentedness in L2 speech using rhythm metrics*, October 17, Colloquium: Speaker Series, School of Linguistics and Language Studies, Carleton University
- 2015 *Rhythm of read and spontaneous speech in Japanese and English*, November 12, Spoken Discourse Research Studio, Department of East Asian Studies, University of Alberta
- 2014 *The processability hierarchy in second language acquisition: Advanced learners of Japanese as a second language*, April 25, Second Language Research Group, Carleton University

Grants, Scholarships and Awards

- 2016,17,18 The Queen Elizabeth II Graduate Scholarship (Doctoral), CAD\$22500 total, Alberta Province
- 2018 The Professionalization Funds, CAD\$500, Faculty of Arts, University of Alberta (with Filip Nenadić)

- 2018 The J Gordin Kaplan Graduate Student Award (Travel Award), CAD\$1500, University of Alberta
- 2015,16,17 Graduate Students Travel Funding Award, CAD\$1500 total, Department of Linguistics, University of Alberta
- 2016 Prince Takamado Japan Centre for Teaching and Research funding, CAD\$350, Prince Takamado Japan Centre, University of Alberta
- 2015 Green and Gold Student Leadership and Professional Development Grant, CAD\$1500, University of Alberta
- 2015,16 Graduate Students' Association Professional Development Award, CAD\$1000 total, University of Alberta
- 2014 Doctoral Recruitment Scholarship, CAD\$10000, University of Alberta
- 2014-18 Graduate Assistantship, University of Alberta
- 2013,14 Outstanding Teaching Assistant Excellence Awards Nominee, Carleton University
- 2012-14 Teaching Assistantship, Carleton University

Skills

Language: Japanese (Native), English (Advanced)

Software: R, Praat, L^AT_EX, Microsoft Office, Microsoft Excel, SR Research Experiment Builder, EyeLink Data Viewer

Laboratory Affiliations

- 2014-20 Alberta Phonetics Lab, University of Alberta
- 2014-20 Centre for Comparative Psycholinguistics, University of Alberta

Professional Memberships

- 2018-19 The Acoustic Society of America
- 2015-16 Canadian Acoustical Association
- 2018-19 Canadian Linguistic Association
- 2018-19 Canadian Association of Applied Linguistics
- 2017-21 The Phonetic Society of Japan
- 2014-18 The Japan Experimental Linguistics Society

References

Dr. Benjamin V. Tucker

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 Email: bvtucker@ualberta.ca

Dr. Juhani Järvi

Professor & Associate Chair of Graduate Studies
 Department of Linguistics, University of Alberta

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Email: jarvikivi@ualberta.ca

Dr. David Wood

Professor of Applied Linguistics & Discourse Studies & School Director

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Last updated: January 27, 2021 • Typeset in Xe_lLa_TE_X

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