

# CURRICULUM VITAE

Emiko J Muraki

PhD Candidate, MSc, BA (Hons), BFA

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## EDUCATION

PhD Brain & Cognitive Science, Experimental Psychology University of Calgary, Calgary AB	2020 - Current GPA: 4.0/4.0
M.Sc. Brain & Cognitive Science, Experimental Psychology University of Calgary, Calgary, AB	2018 - 2020 GPA: 4.0/4.0
Bachelor of Arts Honours, First Class, Psychology University of Calgary, Calgary, AB	2018 GPA: 3.9/4.0
Bachelor of Fine Arts, Drama University of Calgary, Calgary, AB	2005 GPA: 3.5/4.0

## AWARDS, GRANTS, AND SCHOLARSHIPS

Mitacs Globalink Research Award (\$6,000)	2022
Women in STEM Scholarship (\$2,500)	2022
Faculty of Arts Research Grant (co-applicant, \$15,000)	2021
Eyes High Doctoral Recruitment Scholarship (\$26,000/year value, \$1- \$13,000/year held)	2020 - 2023
NSERC Postgraduate Scholarship - Doctoral (\$21,000/year)	2020 - 2022
Izaak Walton Killam Doctoral Scholarship (\$36,000/year value, \$15,000/year held)	2020 - 2021
Canadian Psychological Association Certificate of Academic Excellence - Master's Thesis	2021
Canadian Council of Departments of Psychology Teaching Assistant Award	2020
NSERC Canada Graduate Scholarship - Master's (\$17,500)	2019
Queen Elizabeth II Graduate (Master's) Research Scholarship (\$10,800)	2018
Faculty of Arts Dean's List	2017
University of Calgary Distinguished Alumni Graduate Fall Convocation	2016
Jason Lang Scholarship Recipient (\$1,000/year)	2002 - 2004
Faculty of Fine Arts Dean's List	2002 - 2004

## PEER-REVIEWED PUBLICATIONS

**Muraki, E.J.**, Speed, L.J., & Pexman, P.M. (2023). Insights into embodied cognition and mental imagery from aphantasia. *Nature Reviews Psychology*. <https://doi.org/10.1038/s44159-023-00221-9>

**Muraki, E. J.**, Dahm, S. F., & Pexman, P. M. (2023). Meaning in hand: Investigating shared mechanisms of motor imagery and sensorimotor simulation in language processing. *Cognition*, 240, 105589. <https://doi.org/10.1016/j.cognition.2023.105589>

**Muraki, E.J.**, Doyle, A., Protzner, A.B., & Pexman, P.M. (2023). Context matters: How do task demands modulate the recruitment of sensorimotor information during language processing? *Frontiers in Human Neuroscience*. <https://doi.org/10.3389/fnhum.2022.976954>

Dahm, S.F., **Muraki, E.J.**, & Pexman, P.M. (2022). Hand and foot selection in mental body rotations involves motor-cognitive interactions. *Brain Sciences*, 12, 1500. <https://doi.org/10.3390/brainsci12111500>

**Muraki, E.J.**, Abdalla, Summer, Brysbaert, M. & Pexman, P.M. (2022). Concreteness ratings for 62 thousand English multiword expressions. *Behavior Research Methods*. Advance online publication. <https://link.springer.com/article/10.3758/s13428-022-01912-6>

Ibáñez, A., Kühne, K., Miklashevsky, A., Monaco, E., **Muraki, E.**, Ranzini, M., Speed, L.J., & Tuena, C. (2022). The importance of considering individual differences and context to understand embodied language processes. Accepted for publication in *Journal of Cognition*.

**Muraki, E.J.**, Siddiqui, I., & Pexman, P.M. (2022). Quantifying children's sensorimotor experience: Child body-object interaction ratings for 3,359 English words. *Behavior Research Methods*, 54, 2864–2877. <https://link.springer.com/article/10.3758/s13428-022-01798-4>

**Muraki, E.J.**, Sidhu, D.M., & Pexman, P.M. (2022). Heterogenous abstract concepts: Is "ponder" more embodied than "dissolve"? *Psychological Research*, 86, 2478–2494. <https://doi.org/10.1007/s00426-020-01398-x>

Reggin, L.D., **Muraki, E.J.**, & Pexman, P.M. (2021). Children's Acquisition of Abstract Vocabulary. *Frontiers in Psychology*, 12, 2115. <https://www.frontiersin.org/article/10.3389/fpsyg.2021.686478>

**Muraki, E.J.**, & Pexman, P. M. (2021). Simulating semantics: Are individual differences in motor imagery related to sensorimotor effects in language processing? *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 47(12), 1939–1957. <https://psycnet.apa.org/doi/10.1037/xlm0001039>

**Muraki, E.J.**, Cortese, F., Protzner, A.B., & Pexman, P.M. (2020). Heterogeneity in abstract verbs: An ERP study. *Brain and Language*, 211, 104863. <https://doi.org/10.1016/j.bandl.2020.104863>.

**Muraki, E.J.**, Sidhu, D.M., & Pexman, P.M. (2020). Mapping semantic space: Property norms and semantic richness. *Cognitive Processing*, 21, 637–649. <https://doi.org/10.1007/s10339-019-00933-y>

Pexman, P.M., **Muraki, E.J.**, Sidhu, D.M., Siakaluk, P.D., & Yap, M.J. (2019). Quantifying sensorimotor experience: Body-object interaction ratings for more than 9,000 English words. *Behavior Research Methods*, 51, 453–466. <https://doi.org/10.3758/s13428-018-1171-z>

## MANUSCRIPTS SUBMITTED

Diveica, V., **Muraki, E.J.**, Binney, R.J., & Pexman, P.M. (2023). Socialness Effects in Lexical-Semantic Processing. Paper under review.

**Muraki, E.J.**, Reggin, L., Feddema, C., & Pexman, P.M. (2023). The Development of Abstract Word Meaning. Revision under review.

**Muraki, E.J.**, Atay, E.J., Chadwick, L., van der Wijk, G., Mori, C.M., Murry, A.T., & Exner-Cortens, D. (2023). Affinity and Allyship Groups to Advance Inclusion in Post-secondary Institutions: A Systematic Scoping Review. Revision under review.

**Muraki, E.J.** & Pexman, P.M. (2023). Single words aren't processed in isolation: Effects of associate meanings on lexical and semantic processing. Revision requested.

## OTHER PUBLICATIONS

The Conversation Canada (Authors: **Muraki, E.** & Pexman, P.). *We're just starting to learn more about aphantasia, the inability to picture things with the mind's eye*. Published May 16, 2023. Demonstration of Viewership and Reach: 37,921 Reads. Interview with QR77 Radio. <https://theconversation.com/were-just-starting-to-learn-more-about-aphantasia-the-inability-to-picture-things-with-the-minds-eye-202670>

The Conversation Canada (Authors: **Muraki, E.** & Pexman, P.). *Why children learn how to say 'spoon' before 'sky'*. Published May 2, 2022. Demonstration of Viewership and Reach: 27,035 Reads; Republished by CNN and Phys.org. <https://theconversation.com/why-children-learn-how-to-say-spoon-before-sky-177875>

**Muraki, E.**, Mori, C., Kang, H., & Atay, E. (2021, May 26). *Not "Fresh off the Boat": An EDI Committee Blog Post Series - Topic 3: The Myth of the Model Minority*. <https://arts.ucalgary.ca/news/not-fresh-boat-edi-committee-blog-post-series-topic-3-myth-model-minority>

Atay, E., **Muraki, E.**, Kang, H., & Mori, C. (2021, May 19). *Not "Fresh off the Boat": An EDI Committee Blog Post Series - Topic 2: "What are you?" Experiences of the Biracial, Mixed, and Racially Ambiguous*. <https://arts.ucalgary.ca/news/not-fresh-boat-edi-committee-blog-post-series-topic-2-what-are-you-experiences-biracial-mixed-and-1>

Kang, H., Atay, E., Mori, C., & **Muraki E.** (2021, May 13). *Not "Fresh off the Boat": An EDI Committee Blog Post Series - Topic 1: Asian Solidarity*. <https://arts.ucalgary.ca/news/not-fresh-boat-edi-committee-blog-post-series-topic-1-asian-solidarity>

## PRESENTATIONS

\*Presenting author

**Muraki, E.J.**, Atay, E.J.\*, Chadwick, L., van der Wijk, G., Mori, C.M., Murry, A.T., & Exner-Cortens, D. (2023, June). Safer Spaces and Learning Places: Evidence-Informed Practices for Implementing Affinity and Allyship Groups in Higher Education. Symposium at the 84<sup>th</sup> Annual National Convention of the Canadian Psychological Association, Toronto, Canada.

**Muraki, E.J.\***, Reggin, L.D., Feddema, C., Siddiqui, I.A., & Pexman, P.M. (2022, October). Developmental trajectories of acquisition for concrete and abstract word meaning. Paper presented at CoNSoLER 2022, Poznań, Poland.

**Muraki, E.J.\***, & Pexman, P.M. (2022, August). Individual differences in body-object interaction: Motor imagery and motor experience. Paper presented at the 22<sup>nd</sup> Conference of the European Society for Cognitive Psychology, Lille, France.

**Muraki, E.J.\***, & Pexman, P.M. (2022, August). Situated single-word processing: Are words ever really processed in isolation? Paper presented at the 2022 Embodied and Situated Language Processing Conference, Lille, France.

**Muraki, E.J.\***, Abdalla, S., Brysbaert, M., & Pexman, P.M. (2022, July). Insights from concreteness ratings of multiword expressions: Idiomatic expressions are less concrete than the sum of their parts. Paper presented at the 32<sup>nd</sup> Annual Meeting of the Canadian Society for Brain, Behaviour, and Cognitive Science, Halifax, Canada.

**Muraki, E.J.\***, Chadwick, L., Mori, C.M., van der Wijk, G., Atay, E.J., Solis, L., Murry, A.T., & Exner-Cortens, D. (2023, June). Affinity and Allyship Groups to Advance Inclusion in Post-Secondary Institutions: A Scoping Review and Pilot Group Development. Poster presented at the 83<sup>rd</sup> Annual National Convention of the Canadian Psychological Association, Calgary, Canada.

**Muraki, E.J.\***, Dahm, S.F., & Pexman, P.M. (2021, November). Motor imagery as a mechanism of sensorimotor simulation in language processing. Paper presented at the 62<sup>nd</sup> Annual Meeting of the Psychonomic Society, Virtual Meeting.

**Muraki, E.J.\***, Doyle, A., Protzner, A.B., & Pexman, P.M. (2021, October). Flexible recruitment of sensorimotor information during language processing: An EEG Study. Slide slam presented at the 13<sup>th</sup> Annual Meeting of the Society for the Neurobiology of Language, Virtual Meeting.

Reggin, L.,\* **Muraki, E.**, & Pexman, P.M. (2021, September). Affective embodiment or learning through language? How children develop abstract word knowledge. Paper presented at the 2021 Embodied and Situated Language Processing Conference, Virtual Meeting.

**Muraki, E.J.\*** & Pexman, P.M. (2021, September). Investigating the basis of sensorimotor simulation in language processing: An individual differences approach. Paper presented at the 2021 Embodied and Situated Language Processing Conference, Virtual Meeting.

**Muraki, E.J. \*** & Pexman, P.M. (2021, June). Internal vs external dimensions of verb meaning: Lexical-semantic processing of mental, emotional, and nonembodied abstract verbs. Paper presented at the 30<sup>th</sup> Annual Meeting of the Canadian Society for Brain, Behaviour and Cognitive Science, Virtual Meeting.

Hannah, J.,\* Abdalla, S., **Muraki, E.**, Iaria, G., & Pexman, P.M. (2021, June). How Spatial is Spatial Language? Investigating the Relationship Between Spatial Cognition and Spatial Language. Paper presented at the 30<sup>th</sup> Annual Meeting of the Canadian Society for Brain, Behaviour and Cognitive Science, Virtual Meeting.

Pexman, P.M.,\* **Muraki, E.J.**, & Sidhu, D.M. (2019, November). Mapping semantic space: Property norms and semantic richness. Paper presented at the 60<sup>th</sup> Annual Meeting of the Psychonomic Society in Montreal, QC, Canada.

Yap, M.J.,\* Goh, W.D., **Muraki, E.J.**, Sidhu, D.M., & Pexman, P.M. (2019, November). Timecourse of Number-of-Features Effects in Spoken Word Recognition. Paper to be presented at the 60<sup>th</sup> Annual Meeting of the Psychonomic Society in Montreal, QC, Canada.

**Muraki, E.J. \***, Heard, A., Sidhu, D.M. & Pexman, P.M. (2018, April). The challenge of abstract meaning: Semantic processing of abstract verbs. Paper presented at the 22<sup>nd</sup> University of Calgary Undergraduate Research Conference, Calgary, AB, Canada.

## POSTER PRESENTATIONS

\*Presenting author

**Muraki, E.J. \*** & Pexman, P. (2023, July). Single words aren't processed in isolation: Effects of associate meanings on lexical and semantic processing. Poster presented at CogSci 2023, Sydney, Australia.

**Muraki, E. \***, Chadwick, L., Mori, C., van der Wijk, G., Atay, E., Solis, L., Murry, A., & Exner-Cortens, D. (2022, June). Affinity and allyship groups to advance inclusion in post-secondary institutions: A scoping review and pilot group development. Poster presented at the 83<sup>rd</sup> Annual National Convention of the Canadian Psychological Association, Calgary, Canada.

Feddema, C.\* **Muraki, E.**, Reggin, L., & Pexman, P. (2022, June). Concreteness ratings for words with multiple meanings. Poster presented at Development 2022: A Canadian Conference of Developmental Psychology, Calgary, Canada.

**Muraki, E.J. \***, Doyle, A., Protzner, A.B., & Pexman, P.M. (2022, May). Context matters: How do task demands modulate the recruitment of sensorimotor information during language processing? Poster presented at the 15<sup>th</sup> Annual Canadian Neuroscience Meeting, Toronto, Canada.

Siddiqui, I.,\* **Muraki, E.**, & Pexman, P.M. (2021, June). The Role of Sensorimotor Experience in Vocabulary Acquisition. Poster presented at the 30<sup>th</sup> Annual Meeting of the Canadian Society for Brain, Behaviour and Cognitive Science, Virtual Meeting.

Reggin, L.,\* **Muraki, E.**, & Pexman, P.M. (2021, June). Learning the meanings of fun, happen and peace: Development of Abstract Word Knowledge. Poster presented at the 30<sup>th</sup> Annual Meeting of the Canadian Society for Brain, Behaviour and Cognitive Science, Virtual Meeting.

**Muraki, E.J. \*** & Pexman, P.M. (2020, November). Are individual differences in motor imagery related to sensorimotor effects in language processing? Poster presented at the 61<sup>st</sup> Annual Meeting of the Psychonomic Society, Virtual Meeting.

Reggin, L.D.,\* **Muraki, E.J.**, & Pexman, P.M. (2020, October). Age of acquisition of abstract words. Poster presented at the CLARA Virtual Meeting.

**Muraki, E.J. \*** Doyle, A., Protzner, A.B. & Pexman, P.M. (2019, August). Neural correlates of semantic processing for abstract verb representation. Poster presented at the 11<sup>th</sup> Annual Meeting of the Society for the Neurobiology of Language in Helsinki, Finland.

**Muraki, E.J. \*** Sidhu, D.M., & Pexman, P.M. (2019, June). Semantic richness effects and abstract verb representation. Poster presented at the 29<sup>th</sup> Annual Meeting of the Canadian Society for Brain, Behaviour and Cognitive Science in Waterloo, ON, Canada.

**Muraki, E.J. \*** Sidhu, D.M., & Pexman, P.M. (2019, June). Exploring semantic richness effects in abstract verbs. Poster presented at the Banff Annual Seminar in Cognitive Science (BASICS), Banff, AB, Canada.

**Muraki, E.J. \*** Heard, A., Sidhu, D.M. & Pexman, P.M. (2018, September). The challenge of abstract meaning: Semantic processing of abstract verbs. Poster presented at the 11<sup>th</sup> Annual International Conference on the Mental Lexicon, Edmonton, AB, Canada.

**Muraki, E.J. \*** Heard, A., Sidhu, D.M. & Pexman, P.M. (2018, May). The challenge of abstract meaning: Semantic processing of abstract verbs. Poster presented at the International Meeting of the Psychonomic Society, Amsterdam, NL.

**Muraki, E.J. \*** Heard, A., Sidhu, D.M. & Pexman, P.M. (2018, May). The challenge of abstract meaning: Semantic processing of abstract verbs. Poster presented at the Banff Annual Seminar in Cognitive Science (BASICS), Banff, AB, Canada.

**Muraki, E.J. \*** Sidhu, D.M. & Pexman, P.M. (2017, May). Differences in motion: Verb type and concreteness effects in gesture. Poster presented at the Banff Annual Seminar in Cognitive Science (BASICS), Banff, AB, Canada.

**Muraki, E.J. \*** Sidhu, D.M. & Pexman, P.M. (2017, April). Differences in motion: Verb type and concreteness effects in gesture. Poster presented at the 21<sup>st</sup> Annual University of Calgary Undergraduate Research Conference, Calgary, AB, Canada.

## INVITED TALKS

\*Presenting author(s)

**Muraki, E.J. \*** [Panelist]. Women in Science Night. (2022, April). Psychology Graduate Students Association, University of Calgary.

Atay, E.\* , Hart, C.\* , Mori, C.\* , **Muraki, E.\*** , & Solis, L\* . (2021, December & February). Incorporating an equity, diversity, and inclusion (EDI) mentality in our research and methodology. Workshop presented to the Psyc 600: Professional Development Course at the University of Calgary.

**Muraki, E.J.\*** [Panelist]. Making the most of your teaching assistantship. (2021, September). Panel presented to the Psyc 600: Professional Development Course at the University of Calgary.

**Muraki, E.\*** & Hart, C.\* (2021, February). Equity, Diversity, & Inclusion in Open Science. Presentation to the Open Science Student Support Group at the University of Calgary.

Lindsay, B.\*, & **Muraki, E.\***. (2020, November). Pre-registration. Presentation to the Open Science Student Support Group at the University of Calgary.

**Muraki, E.J.\*** [Panelist] How to publish. (2021, March). Panel presented to the Psyc 600: Professional Development Course at the University of Calgary.

**Muraki, E.J.\*** (2018, November). Overdue. Speaker presentation at PechaKucha Night Calgary #35 in Calgary, AB.

**Muraki, E.J.\*** & Burbidge, G.\* (2018, June). Developing engaged thinkers, ethical citizens, and entrepreneurial spirit through arts-based learning. Paper presented at the 13<sup>th</sup> Annual International Conference on The Arts in Society, Vancouver, BC, Canada.

**Muraki, E.J.\*** & Burbidge, G.\* (2018, June). Creating and maintaining a culture of evaluation. Panel presentation at the Americans for the Arts Annual Convention, Denver, CO, USA.

## TEACHING EXPERIENCE

### **Psyc 615 Analysis of Variance**

Instructor, University of Calgary

Fall 2023

### **Psyc 365 Cognitive Psychology**

Instructor, University of Calgary

Winter 2023

### **PSYC 617 Multivariate Data Analysis**

Teaching Assistant, University of Calgary

Winter 2020 & 2021

### **PSYC 615 Analysis of Variance**

Teaching Assistant, University of Calgary

Fall 2019

### **PSYC 300 Research Methods & Data Analysis in Psychology I**

Teaching Assistant, University of Calgary

Fall 2018 & Spring 2019

### **PSYC 301 Research Methods & Data Analysis in Psychology II**

Teaching Assistant, University of Calgary

Winter 2019

### **PSYC 375 Brain & Behavior**

Teaching Assistant, University of Calgary

Fall 2018

## CO-SUPERVISED STUDENTS

Faris Mahmood, Undergraduate Honours Thesis	2023 - present
Sydney Born, Summer Research Intern	2022
Carissa Feddema, Undergraduate Independent Research Project	2021 - 2022
Israa Siddiqui, Undergraduate Honours Thesis	2020 - 2021

## SERVICE ACTIVITIES

### Department of Psychology, University of Calgary

Equity, Diversity, & Inclusion Committee Member	2021 - Current
Open Science Student Support Group Organizer	2020 - Current
CSBBCS Associate Departmental Representative	2020 - 2023
PSYCHS/PGSA Mentorship Program [Mentor]	2018 - 2022
Cognitive Science Seminar Organizer	2019

### University of Calgary

FGS Equity, Diversity, and Inclusion Working Group [Co-Chair]	2021 - 2023
Women Guiding Women Mentorship Program [Mentor]	2018
GSA Mentorship Program [Mentor]	2017

### Ad-Hoc Reviewer

Acta Psychologica	
Behavior Research Methods	
Cognitive Processing	
Journal of Experimental Psychology - Learning, Memory, and Cognition	
Language and Cognition	
Language Learning	
PLOS ONE	
Psychological Reports	

## COMMUNITY VOLUNTEER ACTIVITIES

### The Calgary Foundation

Arts & Heritage Grants Committee [Member]	2018 - 2023
Racial Equity Working Group [Member]	2020 - 2022

### Chromatic Theatre

Board of Directors [President]	2020 - 2023
Board of Directors [Member-at-Large]	2019 - 2020

### Calgary Japanese Community Association

Organizing Committee, Calgary Japanese Festival "Omatsuri" [Member]	2023
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<b>National Association of Japanese Canadians</b> Arts, Culture and Education Subcommittee [Member]	2019 - 2022
<b>Canada Council for the Arts</b> Qualitative Impact Research & Measurement Advisory Committee [Member]	2018
<b>Canadian Public Arts Funders Research Group</b> Working Group [Member]	2016 - 2018
<b>Calgary Board of Education</b> Fine Arts Advisory Committee & Research Sub-Committee [Member]	2013 - 2018
<b>The City of Calgary</b> Event Advisory Committee [Member]	2013 - 2018
<b>University of Calgary</b> Alumni Arts Connection Council [Member]	2015 - 2017

## PROFESSIONAL AFFILIATIONS

American Psychological Association [Student Member]  
 Canadian Association for Neuroscience [Student Member]  
 Canadian Psychological Association [Student Affiliate]  
 Canadian Society for Brain, Behaviour, and Cognitive Science [Associate Member]  
 Cognitive Science Society [Student Member]  
 European Society for Cognitive Psychology [Associate Member]  
 Hotchkiss Brain Institute [Trainee]  
 Psychonomic Society [Student Member]  
 Society for the Improvement of Psychological Science [Student Member]  
 Society for the Neurobiology of Language [Student Member]  
 Women in Cognitive Science [Member]  
 Women in Cognitive Science Canada [Member]

## PROFESSIONAL DEVELOPMENT AND CERTIFICATES

### Research & Methodology

Visceral Mind Summer School: A hands-on course in the neuroanatomy of cognition and emotion, Bangor University.	2022
Intro to Mediation, Moderation and Conditional Process Analysis with Andrew F. Hayes, University of Calgary.	2021
ERP Bootcamp with Stephen Luck and Emily Kappenman, University of Birmingham.	2018
Learning to Master R: From Basics to Discontinuous Growth Modelling, University of Calgary.	2017

## Teaching & Learning

Graduate Student Certificate in University Teaching and Learning, Taylor Institute for Teaching and Learning, University of Calgary. Badges include:	2021
1. Emerging Teachers Development	
2. Develop your Teaching Dossier	
3. Learning Spaces & Digital Pedagogies	
4. Theories & Practices	

## Mental Health & Support Training

The Comments Section: Addressing Harassment Online, University of Calgary.	2022
ASIST - Applied Suicide Intervention Skills Training, University of Calgary.	2022
Bystander Intervention Training, University of Calgary.	2021

## Program Evaluation & Public Policy

Summer Training Institute, American Evaluator's Association.	2015 & 2017
Public Policy Training Institute, Max Bell Foundation.	2015
Evaluating Community Impact Workshop, Tamarack Institute.	2014
Next Generation Evaluation Conference, FSG.	2013

## PROFESSIONAL EXPERIENCE

### Calgary Arts Development

Public Art Bid Consultant	2020
Director, Community Investment & Impact	2015 - 2018
Director, Impact & Engagement	2013 - 2014
Program Manager, Resource Development	2012 - 2013
Program & Event Coordinator	2011 - 2012

### Alberta Theatre Projects

Manager, Special Events	2007 - 2009
Coordinator, Stewardship & Special Events	2006 - 2007
University of Calgary Intern	2005 - 2006