

Curriculum vita

Mehdi Purmohammad

Ph.D. student in Special Education
Faculty of Education
College of Social Sciences and Humanities
University of Alberta

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Education

Ph.D. student (2023-present). Special Education. University of Alberta, Canada

Supervisor: Professor Lesly Wade Woolley

Ph.D. (2015) Linguistics. University of Bern, Switzerland

MSc. (2012) Psychology of Language, The University of Edinburgh, UK

M.A. (2009) Teaching Persian to non-Persian speakers, Allameh Tabataba'i University, Iran

B.A. (1998) Teaching English, Isfahan University, Iran

Research interests

Dyslexia, reading difficulties, bilingualism, language and cognitive functions

Professional positions

- The Orton-Gillingham tutor, 2024-current, The Scottish Rite Charitable Foundation Learning Centre for Edmonton
 - Grade 1 volunteer Reading intervention tutor, 2024, Garneau Public School, Edmonton,
 - Former Faculty member of the Institute for Cognitive and Brain Sciences, Shahid Beheshti University (January 2020- August 2023)
 - Former Faculty member of the Institute for Cognitive Science Studies (2015-2020)
 - Head of Research and Education, Institute for Cognitive Science Studies, Iran (2017-2020)
 - Head of non-English languages department, Iran Language Institute, Iran (2015- 2019)
 - Farsi language tutor, Iran Language Institute, Iran, 2008-2009
 - English language teacher, The Ministry of Education, Iran (1998-2010)
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Postgraduate Teaching Experiences

- **Language and Cognition**, The University of Shahid Beheshti, Iran, 2020-2019
- **The Principle of Cognitive Linguistics**, The University of Shahid Beheshti, Iran, 2020-2022
- **Cognitive Linguistics**, Institute for Cognitive Science Studies, 2015- 2020

- **Research methods in Cognitive Science of Language**, Institute for Cognitive Science Studies, 2015- 2020
 - **Language and Cognition**, Institute for Cognitive Science Studies, 2017- 2019
 - **Psycholinguistics**, The University of Allameh Tabatabai, Iran, 2016
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Graduate Teaching Assistantships

EDPY 458 - Assessment and Programming for Children with a Specific Reading Disability, Instructor: Professor George Georgiou, Winter 2024, University of Alberta.

Graduate Research Assistant

- ◆ Graduate research assistant, University of Alberta, 2023-2024

Collaborated with a team of researchers to collect, and score large datasets on early universal language screening in primary grades, resulting in the identification of key trends and insights that contributed to the publication of a high-impact research paper, supervised by **Professor Lesly Wade Woolley**.

- ◆ Graduate research assistant, University of Alberta, 2024

Collaborated with a team of researchers to collect, and score large datasets on early universal language screening in primary grades, resulting in the identification of key trends and insights that contributed to the publication of a high-impact research paper, supervised by **Professor George Georgiou**

Awards and Grants

- Alberta Graduate Excellence Scholarship (AGES), University of Alberta, 2023
 - Seed Money Award for Research and Young Researcher promotion, University of Bern, Switzerland, 2013
 - Josephine de Karman funds, University of Bern, Switzerland, 2014
 - Gained second place in Translation in "TEACHER BOOK SELECTION FESTIVAL", Iran, The Ministry of Education, 2003
 - Gained third place in Translation in "TEACHER BOOK SELECTION FESTIVAL", Iran, Ministry of Education, 2001
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PUBLICATIONS

ARTICLES

Amidi A, Golfam A, **Purmohammad M.** (2024). Gender representations in the poetry of Frough Farokhzad and Ahmad Shamlou: Integrating cognitive poetics and critical discourse analysis. *Advances in Cognitive Sciences*.25(4):156-173. <http://dx.doi.org/10.30514/icss.25.3.141>

- Behradmehr, M. & **Purmohammad, M.** (2024). *Investigating psycholinguistic variables on the reaction time of vocabulary retrieval in normal elderly people based on Levelt's word production model*. Poster presented at International Conference on Cognitive Science. Iran.
- Soleimani Tekbudak, F., **Purmohammad, M.**, Ozkan, A., & Acarturk, C. (submitted). The PSR Corpus: A Persian Sentence Reading Corpus of Eye Movements. *Behavior Research Methods*.
- Dalir, D., **Purmohammad, M.** (corresponding author), Golfam, A., Khosroabadi, R., Karbalaieisadegh, M. (2024). The Neural Response to the Syntactic Processing of wh-Complements in Persian within Adult Verbal Entries, Based on Lexical-Functional Grammar, *Journal of Language Researches*, No. 2, Vol.14, Autumn & Winter, Serial No. 27 (25-53). DOI:10.22059/jolr.2024.365010.666855.
- Shadmani, M., Monshizadeh, M., Golfam, A., & **Purmohammad, M.** (2024). Cognitive Semantics, Philology and Persian Literature: Towards a diachronic analysis of conceptual mappings of the two Persian words, RUX and RŪY, based on the Prototype Theory. *Language Studies, Institute for Humanities and Cultural Studies (IHCS) Biannual Journal*, Vol. 15, No. 2, 75-115, doi: 10.30465/ls.2023.42344.2074
- Shamsa, R, **Purmohammad, M.**, Mashhadi, A, & Salimi, Z. (2023). Validation of the Cardillo metaphorical package for testing neural hypotheses about metaphor and its comparison in patients with obsessive-compulsive disorder and normal individuals. *Advances in Cognitive Sciences*. 25(2):158-175
- Zalzadeh, Z., Nemati, F., **Purmohammad, M.** (2023). *The emotional impact of lexical arousal on foreign language vocabulary learning*. Poster presented at Words in the World International Conference. Canada.
- Alirezaloo, N., **Purmohammad, M.**, Hasani Abharian, P., Nami, M., & Biglarian, A. (2023). The Comparison of perception of the metaphor in Turkish and Persian bilingual 7-11 years old children, *Iranian Journal of Comparative Linguistic Research*, 12(24), 159-185. doi: 10.22084/rjhl.2023.26790.2239
- Purmohammad, M.** (2023). Language Selection in Bilingual Speakers: A Multidisciplinary Approach. *Interdisciplinary Studies in English Language Teaching*. Volume 2. Issue 1. 51-69. doi.org/10.22080/iselt.2023.24690.1045
- Nasiri, M., Moayyefar, S. **Purmohammad, M.** & Ghasisin, L., (2022). Investigating Sentence Processing and Working Memory in Patients with Mild Alzheimer and Healthy Aged People. *PLoS ONE*, 17(11): e0266552. <https://doi.org/10.1371/journal.pone.0266552>
- Purmohammad, M.**, Vorweg, C. & Abutalebi, J. (2022). The processing of bilingual (switched) compound verbs: Competition of words from different categories for lexical selection. *Bilingualism, Language and Cognition*. 1–13. <https://doi.org/10.1017/S1366728921001103>
- Ebrahimi, A., Hemmatian, B., & **Purmohammad, M.** (2022). The moderation effect of Illusion of Explanatory Depth of Knowledge towards National and International Issues. *Proceedings of the Annual Meeting of the Cognitive Science Society*, 44. Retrieved from <https://escholarship.org/uc/item/5r69b9qx>
- Irani, D., & **Purmohammad, M.** (2023). Comparison of language awareness in Kurdish-Persian bilingual children and Persian monolingual children. *Applied neuropsychology. Child*, 12(1), 56–63. <https://doi.org/10.1080/21622965.2022.2029447>
- Panahinejad, H., Safavimanesh, F., **Purmohammad, M.**, Jahanitabesh, A., & Hajimoladarvish, N. (2022). The Role of Conceptual Metaphors in Economics Phenomena from Behavioral Economics Aspect. *Language Related Research*. 12 (6): 299-337. doi.org/10.52547/LRR.12.6.10
- Alizadeh, A., Kelarestaghi, M., **Purmohammad, M.** & Safavimanesh, F. (2022). Computational Modeling of the Effects of the Two-Sided Message on Perceived Strength of an Argument.

- Contemporary Psychology*, 15 (1). 1-12, URL:<http://lrr.modares.ac.ir/article-14-46689-en.html>.
- Derakhshan, A. **Purmohammad, M.** & Safavimanesh, F. (2021). Self-regulation. *Journal of Advances in Cognitive Sciences*. 23 (3): 41-5. doi.org/10.30514/icss.23.3.41
- Hakimi, S. & **Purmohammad, M.** (corresponding author), Hakimi, M. (2021). The Role of Construction Similarity and Verb Tense on the Construction of Integrated Syntactic Representations in Bilinguals. *Journal of Researches in Linguistics*, 12(2), 263-283. doi: 10.22108/jrl.2021.127441.1556
- Soltani, V., Nilipour, R., **Purmohammad, M.** & Hasani-Abharian, P. (2021). An embodiment of conceptual metaphors and comprehension of abstract concepts in 5 to 7-year-old Persian Speaking Children. *Language Related Research*. 12 (2): 479-505, doi.org/10.29252/LRR.12.2.15, URL: <http://lrr.modares.ac.ir/article-14-34161-fa.html>
- DaneshPajouh, R. **Purmohammad, M.** & Mahdavi, A. (2020). Effectiveness of Problem-Solving Training to Improve Employee's Job Satisfaction and Creativity. *Social Cognition*, Vol. 9, No. 1, (Series 17), 107-122. <https://doi.org/10.30473/sc.2020.42776.2285>
- Shafiei, F., Ghassemzadeh, H., Ashayeri, H., Safavimanesh, F., & **Purmohammad, M.** (2020). Domain mapping or schematic mapping?! How source domain in metaphor projects on target domain: visual and auditory short-term recognition. *Language-related research*. 11 (2):85-113. URL: <http://lrr.modares.ac.ir/article-14-32339-fa.html>
- Khosravi, A, Kelarestaghi, M., & **Purmohammad, M.** (2020). Emotion Detection in Persian Text; A Machine Learning Model, *Contemporary Psychology*, 14 (1), 42-48. <http://dx.doi.org/10.32598/bjcp.13.1.2>
- Moayedfar, S., **Purmohammad, M.**, Shafa, N., Shafa, N., & Ghasisin, L. (2019). Analysis of naming processing stages in patients with mild Alzheimer. *Applied Neuropsychology: Adult*. 28:1, 107-116, doi=10.1080/23279095.2019.1599894
- Khalili Ardali, M., **Purmohammad, M.**, Ujwal Chaudhary, U., Birbaumer, M. & Rana, A. (2019). Semantic and BCI-Performance in completely paralyzed patients: the possibility of language attrition in completely locked-in syndrome. *Brain and Language*. 194:93-97. doi: 10.1016/j.bandl.2019.05.004
- Soltani, V. Nilipour, R. **Purmohammad, M.**(corresponding author) & Abharian, P. (2019). Comprehension problems of Conceptual Embodied Metaphors in 5 to 7-year-old hearing impaired Persian speaking children. *Function and Disability Journal*. 2.15. URL: <http://fdj.iums.ac.ir/article-1-86-en.html>.
- Purmohammad, M.**, Shamsa, R. & Torabi, L. (2019). The semantic network of verb prefix: “for” in terms of a cognitive semantics approach. *Advances in Cognitive Sciences*. Vol. 21, No. 2. 61-73. URL: <http://icssjournal.ir/article-1-1025-en.html>
- Mehrpure, Z. Moradi, A. Dabbagh, H., Moghaddasin, M. & **Purmohammad, M.** (2019). Efficiency of Metaphorical Stories and Literal Instructions on Attention and Response Control in Attention Deficit/ Hyperactivity Disorder Children. *Medical Journal of Mashhad University of Medical Sciences*, Vol. 62, Special Issue1, 821-831. doi: 10.22038/mjms.2019.14113
- Vaseq, M. & **Purmohammad, M.** (corresponding author) (2019). Dominant Views on Gender and Underrepresenting Women's Character in Children's Picture Books. *The Journal of Sociolinguistics*, Vol. 3, N 2, 55-66. <https://doi.org/10.30473/il.2019.44269.1235>
- Meshkinmehr, A. **Purmohammad, M.** Nushi, M. & Talkhabi, M. (2019). Investigating the Effect of Applying Brain-based Learning Principles on the Learning and Retention of Vocabulary by EFL. *Critical Language & Literary Studies*, Vol.16, NO. 22, 239-269.
- Purmohammad, M.** (2017). Cognitive Linguistics. In K. Kharrazi, *An Introduction to Cognitive Sciences and Technologies: its applications*. 161-133. Samt, Iran.

- Purmohammad, M., & Abbasi, Z. (2016).** *Applying Cognitive linguistics approaches in second language acquisition: A focus to teaching Persian to non-Persian speakers.* 1094-1119. Xamush Publication, Tehran.
- Purmohammad, M. (2015).** Grammatical encoding in bilingual language production: A focus on code switching. *Frontiers in Psychology.* 6:1797. doi:10.3389/fpsyg.2015.01797
- Purmohammad, M. (2015).** Linguistic Alignment in L1-L2 Dialogue. *Language and Dialogue*, John Benjamins Publishing, Vol. 5(2), 312–333. doi 10.1075/ld.5.2.07pur.
- Purmohammad, M. (2015).** *Processes of language selection in bilinguals: A focus on models of bilingual language production and comprehension.* In Editum, PERSPECTIVAS LINGÜÍSTICAS., 117-132. Spain.
- Purmohammad, M. (2009).** *Xatā-hā-ye vājehgāni ma'nā'i va ramzgardāni-ye guyešvarān-e Māzandarāni (Bāboli) dar Fārsi-e goftār [Lexico-semantic Errors and Code switching in the speech of Māzandarāni (Bāboli) Speakers of Persian]* (Master's Thesis). Allāmeḥ Tabātabā'i University. Tehran. Iran.
- Purmohammad, M. (2008).** *Ta'ārif-e dozabānehgi: Entexāb-e ta'rif-i motenāseb bā dozabānehgi dar Māzandarān [Bilingualism definitions: Choosing a definition that best fits Bilingualism in Māzandarān].* In Z., Tājeddin, & Z. Abbāsi, (Eds.). Teaching Persian to non-Persians Seminar (pp. 71-82). Iran Language Institute, Tehran. Iran.
- Purmohammad, M. (2008).** *Ramzgardāni dar goftār-e guyešvarān-e dozabāneh: Bā ta'kid bar ramzgardāni-ye guyešvarān-e Māzandarāni (Bāboli) dar goftār-e Fārsi (Code switching in Bilinguals' speech production: A focus on code switching in the speech of Mazandarani (Baboli) speakers of Persian).* In Z., Tājeddin, & Z. Abbāsi, (Eds.). Teaching Persian to non-Persians Seminar (pp. 83-106). Iran Language Institute, Tehran. Iran.

BOOKS

- Purmohammad, M. (2021). *New methods and tools in language studies.* SAMT.Tehran, Iran.
- Purmohammad, M. (2019). *Psycholinguistics.* SAMT.Tehran, Iran.
- Purmohammad, M. (2014). *Elementary Persian for non-Heritage learners of Persian (Farsi): Teaching Persian to non-Persian Speakers(3).* CreateSpace, An Amazon Company. http://www.amazon.com/Elementary-Persian-non-Heritage-learners-Farsi/dp/1494893487/ref=asap_B00J6PW580?ie=UTF8
- Purmohammad, M. (2013). *Learn to Speak Persian: Speaking Skill for Intermediate learners of Persian: Teaching Persian to non-Persian speakers.* CreateSpace, An Amazon Company. http://www.amazon.com/Learn-Speak-Persian-Intermediate-non-Persian/dp/1493672304/ref=asap_B00J6PW580?ie=UTF8
- Purmohammad, M. (2013). *An applied Persian Grammar, Speaking as the macro-skill, Teaching Persian to non-Persians.* CreateSpace, An Amazon Company. http://www.amazon.com/Applied-Persian-Grammar-Speaking-macro-skill/dp/1493537601/ref=asap_B00J6PW580?ie=UTF8

Grant received for research projects

- Purmohammad, M. (2021). The role of frequency and number of neighboring words in reading intensified words and the role of attention and working memory performance in the comprehension of complex syntax sentences in dyslexic children, (Report No. 11990), Cognitive Sciences and Technologies Council, Tehran, Iran

- Purmohammad, M. (2019). Investigation of Reaction Time for different levels of word retrieval in healthy aged people and young and middle-aged people based on Levelt's speech production Model, (Report No. 8243), Cognitive Sciences and Technologies Council, Tehran, Iran
- Purmohammad, M. (2017). The role of construction similarity and verb tense on the construction of integrated syntactic representations in bilinguals, (Report No. 6288) Cognitive Sciences and Technologies Council, Tehran, Iran

Language proficiency questionnaire adaptation

- Marian. V., Blumenfeld, H., & Kaushanskaya, M. (2007). The Language Experience and Proficiency Questionnaire (LEAP-Q): Assessing language profiles in bilinguals and multilinguals. *Journal of Speech Language and Hearing Research*, 50 (4), 940-967. (English for Switzerland, adapted by **Mehdi Purmohammad**, Universität Bern, & Max R. Freeman, Northwestern University)

Invited talks and presentations:

- Purmohammad, M.** (3-5 May, 2023). A processing model of Bilingual (Switched) Compound verb. Presented at The first international conference on the Science of Language and the Brain. Tehran, Iran.
- Purmohammad, M.** (18 Feb, 2022). The role of language in Cognitive functions. Presented at the 10th Iranian Symposium of Cognitive Neuropsychology. Tehran, Iran.
- Purmohammad, M.** (27 July 2021). An introduction to Psycholinguistics and Neurolinguistics. Presented in National Brain Mapping Laboratory. Tehran, Iran.
- Purmohammad, M.** (April 2021). Psycho-neurolinguistics of codeswitching in bilingual speakers. Presented in National Brain Mapping Laboratory. Tehran, Iran.
- Purmohammad, M.** (2020). Language and Emotion. Presented in the summer school of The Emotional Mind. Tehran, Iran.
- Purmohammad, M.** (2018). Language processing and language control in bilinguals: A neuropsycholinguistics approach, Brain & Cognition Clinic, Tehran, Iran.
- Purmohammad, M.** (2017). Neurolinguistics, bilingualism and second language material development. Presented in Shahid Beheshti University. Tehran, Iran.
- Purmohammad, M.** (2017). Teaching in multilingual classrooms: A focus on teaching Persian to non-Persians. Presented at Shahid Beheshti University Tehran, Iran.
- Purmohammad, M.** (February 2016). The production of Bilingual compound verb: A psycholinguistic study, The University of Shahid Beheshti. Tehran, Iran.
- Purmohammad, M.** (2015). The processing of bilingual compound verbs. Presented in WinterSchool, The University of Fribourg. 2-4 February. Switzerland.
- Purmohammad, M.** (2014). Grammatical encoding in the production of Bilingual compound verbs. Presented at BeLing-Kolloquium HS 2014. University of Bern. Switzerland.
- Purmohammad, M.** (2013). Code switching: a touchstone of bilingual language production models. A PhD Workshop, Presented at Institute of Multilingualism, University of Fribourg. Switzerland.
- Purmohammad, M.** (2013). Language processing of Code switching within Persian compound verbs. Presented at BeLing-Kolloquium HS 2013. University of Bern. Switzerland
- Purmohammad, M.** (2012). The Lexical Semantic Interference Model (LSIM) in bilingual language production. Presented at the 33rd Language at Edinburgh Lunch, University of Edinburgh. UK.

Translations

- Farhat, H., (1990). *The Dastgah Concept in Persian Music*, Part Publication, Translated by Purmohammad, Mehdi, (1380), Part Publication: Tehran, Iran.
- Zonis, E. (1973). *The Classical Persian Music*, Translated by Purmohammad, M. (1378), Part Publication, Tehran, Iran.
- Farhat, H. (1973). *The Traditional art music of Iran*, Translated by Purmohammad, M. (1378), Part Publication, Tehran. Iran
- Gerson-Kiwi, (1963). *The Persian Doctrine of Dastga-composition, A Phenomenological study in the Musical Modes*, Translated by Purmohammad, M. (1384), Honar o Farhang Publication: Tehran. Iran
- Nettle, B. (1972). *Daramad-e Chahargah, A Study in the performance practice of Persian Music*, Translated by Purmohammad, M. (1383), Faslname-ye Honar, Ministry of Culture and Art, Tehran. Iran.
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Ad hoc Grant Proposal Reviewer

Cognitive Sciences and Technologies Council
Iran National Science Foundation (INSF)

Ad hoc Reviewer

ADVANCES IN COGNITIVE SCIENCE