

# Daniel Schmidtke

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Last updated on June 2, 2025

## CURRENT ACADEMIC POSITION

**McMaster University**, Research Associate, McMaster English Language Development (MELD) Program, June 2024–present

## CURRENT AFFILIATIONS

**Mohawk College**, Research Fellow, Mohawk College Student Success Innovation Centre (CSSIC), May 2024–April 2027

**McMaster University**, Affiliated Researcher, The Centre for Advanced Research in Experimental and Applied Linguistics (ARiEAL), May 2017–present

## PREVIOUS ACADEMIC POSITIONS

**McMaster University**, Research Associate (Academic), McMaster English Language Development (MELD) Program, July 2022–June 2024

**McMaster University**, Post-doctoral researcher, Department of Linguistics and Languages, Sept 2017–June 2022

**University of Alberta**, Post-doctoral research fellow, Department of Psychology, Sept 2016–Sept 2017

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## CITIZENSHIPS

United Kingdom, Canada

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## EDUCATION

**Ph.D. McMaster University**, Hamilton, Canada, 2016

**Program:** Cognitive Science of Language

**Thesis title:** *Semantic Processing of Morphologically Complex Words: Experimental Studies in Visual Word Recognition.*

**Supervisor:** Dr. Victor Kuperman

**M.Sc. University of Edinburgh**, Edinburgh, Scotland, 2011

**Program:** Developmental Linguistics

**Thesis title:** *Lexical Representation of Cognates and Noncognates in Second Language Learners: An Investigation Using the Translation Recognition Task.*

**Supervisor:** Dr. Mits Ota

**B.A. (First Class Honors)**, York St. John University, York, England, 2010

**Program:** English Language and Linguistics

**Dissertation:** *The Development of Parasitism in Second Language Vocabulary Acquisition: The Effects L2 Exposure and Cognate Status.*

**Supervisor:** Dr. Christopher Hall

**Visiting Ph.D. student at Eberhard Karls Universität Tübingen**, Tübingen, Germany, 2016

**Visiting lab:** The Quantitative Linguistics research unit, Seminar für Sprachwissenschaft

**Supervisor:** Professor R. Harald Baayen

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## PUBLICATIONS

### SUBMITTED

Oralova, G., **Schmidtke, D.** Boshra, R., Kyröläinen, A., Connolly, J. F., & Kuperman, V. (Under review). The chicken or the egg? The timeline for lexical and semantic effects in derived word recognition using simultaneous recording of EEG and eye-tracking. *Journal of Experimental Psychology: Human Perception and Performance.*

### IN PRESS

**Schmidtke, D.**, Lu, G., & Moro, A.L. (2025). EAL reading growth during and beyond an undergraduate transition program: a 4-year longitudinal eye-movement study. *Reading and Writing.*

## SCIENTIFIC PUBLICATIONS and BOOK CHAPTERS

**Schmidtke, D.** (2025). CompLex: An Eye-Movement Data Resource for Research on Compound Word Reading. *International Encyclopedia of Language and Linguistics, 3rd Edition*. Reference Collection in Social Sciences. <https://doi.org/10.1016/B978-0-323-95504-1.00344-6>

**Schmidtke, D.**, Van Dyke, J. A. & Kuperman, V. (2025). DerLex: An eye-movement database of derived word reading in English. *Behavior research methods*. 57(11). <https://doi.org/10.3758/s13428-024-02565-3>

**Schmidtke, D.**, Yamada, S. & Moro, A. L. (2025). Bridging to academic success: the impact of reading gains in an English bridging program on GPAs. *Reading and Writing*. 38, 195–224. <https://doi.org/10.1007/s11145-024-10514-x>

**Schmidtke, D.** & Kuperman, V. (2024). A psycholinguistic study of intergroup bias and its cultural propagation. *Scientific reports*. 14, 8613. <https://doi.org/10.1038/s41598-024-58905-y>.

**Schmidtke, D.**, Rahmanian, S., & Moro, A. L. (2024). Reading experience drives L2 reading speed development: a longitudinal study of EAL reading habits. *Frontiers in Education: Educational Psychology*. Vol. 9. <https://doi.org/10.3389/educ.2024.1286132>

**Schmidtke, D.**, Rahmanian, S., & Moro, A. L. (2023). Tracking reading development in an English language university-level bridging program: evidence from eye-movements during passage reading. *Bilingualism: Language and Cognition*. 26(2), 356–370. <https://doi.org/10.1017/S1366728922000542>

Benjamin, S. & **Schmidtke, D.** (2023). Conceptual combination during novel and existing compound word reading in context: a self-paced reading study. *Memory & cognition*. 51(2), 1170–1197. <https://doi.org/10.3758/s13421-022-01378-z>

Nenadić, F., Podlubny, R.G., **Schmidtke, D.**, Kelley, M.C., & Tucker, B.V. (2022). Semantic richness effects in isolated spoken word recognition: Evidence from Massive Auditory Lexical Decision. *Journal of Experimental Psychology: Learning, Memory, and Cognition*. 50(4), 650–673. <https://doi.org/10.1037/xlm0001208>

**Schmidtke, D.**, Rahmanian, S., & Moro, A. L. (2022). Morphological knowledge in English learner university students is sensitive to language statistics: A longitudinal study. *Applied Psycholinguistics*. 43(4), 889–919. <https://doi.org/10.1017/S0142716422000182>

**Schmidtke, D.** & Moro, A. L. (2021). Determinants of Word Reading Development in English Learner University Students: A Longitudinal Eye Movement Study. *Reading Research Quarterly*. 56(4), 819–854. <https://doi.org/10.1002/rrq.362>

**Schmidtke, D.**, Van Dyke, J. A. & Kuperman, V. (2021). CompLex: An eye-movement database of compound word reading in English. *Behavior Research Methods*. 53, 59–77. <https://doi.org/10.3758/s13428-020-01397-1>

**Schmidtke, D.** & Kuperman, V. (2020). Book chapter. Psycholinguistic Methods and Tasks in Morphology. In *Oxford Research Encyclopedia of Linguistics*. Oxford University Press. <http://dx.doi.org/10.1093/acrefore/9780199384655.013.600>

**Schmidtke, D.**, Rahmanian, S. & Moro, A. L. (2019). Technical report on change in language abilities of students enrolled in the McMaster English Language Development (MELD) program. McMaster University.

- Gagné, C. L., Spalding, T., & **Schmidtke, D.** (2019). LADEC: The Large Database of English Compounds. *Behavior Research Methods*, 51, 2152–2179. <https://doi.org/10.3758/s13428-019-01282-6>
- Ho, A., Boshra, R., **Schmidtke, D.**, Oralova, G., Moro, A. L., Service, E., & Connolly, J. F. (2019). Electrophysiological evidence for the integral nature of tone in Mandarin spoken word recognition. *Neuropsychologia*, 131, 325–332. <https://doi.org/10.1016/j.neuropsychologia.2019.05.031>
- Schmidtke, D.** & Kuperman, V. (2019). A paradox of apparent brainless behavior: The time-course of compound word recognition. *Cortex*, 116, 250–267. <https://doi.org/10.1016/j.cortex.2018.07.003>
- Sneffjella, B., **Schmidtke, D.**, & Kuperman V. (2018). National character stereotypes mirror language use: A study of Canadian and American tweets. *PLoS ONE* 13(11): e0206188. <https://doi.org/10.1371/journal.pone.0206188>
- Schmidtke, D.**, Gagné, C. L., Kuperman, V. & Spalding, T. L. (2018). Language experience shapes relational knowledge of compound words *Psychonomic Bulletin and Review*, 25(4), 1468–1487. <https://doi.org/10.3758/s13423-018-1478-x>
- Schmidtke, D.**, Gagné, C. L., Spalding, T. L., Kuperman, V. & Tucker, B. V. (2018). Conceptual relations compete during auditory and visual compound word recognition. *Language, Cognition and Neuroscience*, 33(7), 923–942. <https://doi.org/10.1080/23273798.2018.1437192>
- Schmidtke, D.**, Van Dyke, J. A. & Kuperman, V. (2018). Individual variability in the semantic processing of English compound words. *Journal of Experimental Psychology: Learning, Memory and Cognition*, 44(3), 421–439. <https://doi.org/10.1037/xlm0000442>
- Schmidtke, D.**, Matsuki, K., & Kuperman, V. (2017). Surviving blind decomposition: a distributional analysis of the time-course of complex word recognition. *Journal of Experimental Psychology: Learning, Memory and Cognition*, 43(11), 1793–1820. <https://doi.org/10.1037/xlm0000411>
- Schmidtke, D.** & Kuperman, V. (2017). Mass counts in World Englishes: A corpus linguistic study of noun countability in non-native varieties of English. *Corpus Linguistics and Linguistic Theory*, 13(1), 135–164. <https://doi.org/10.1515/c11t-2015-0047>
- Schmidtke, D.**, Kuperman, V., Gagné, C. L. & Spalding, T. L. (2016). Competition between conceptual relations affects compound recognition: the role of entropy. *Psychonomic Bulletin and Review*, 23(2), 556–570. <https://doi.org/10.1080/23273798.2018.1437192>
- Hall, C. J., **Schmidtke, D.** & Vickers, J. (2013). Countability in World Englishes. *World Englishes*, 32(1), 1–22. <https://doi.org/10.1111/weng.12001>

## GRANTS & AWARDS

2024 **Mohawk College Student Success Innovation Centre (CSSIC) Research Fellowship** (PI: Daniel Schmidtke). **\$99,471.84 CAD**. Project title: *Reading Development as a Pathway to International Student Success: A Targeted Reading Intervention on EAP Program Students at Mohawk College*.

2022 **Social Sciences and Humanities Research Council (SSHRC) Insight Development Grant** (PI: Daniel Schmidtke). **\$53,369 CAD**. Project title: *Beyond bridging: linguistic indicators of academic and literacy outcomes of international students in a Canadian university*.

2017 **Post Doctoral Fellows Association Travel Grant**, travel grant in support of attendance of the International Morphological Processing Conference (MoProc), SISSA, Trieste, Italy, June 22<sup>nd</sup>–24<sup>th</sup> 2017.

2016 **The Governor General's Graduate Academic Medal (nominated)**, nomination for Ph.D. thesis.

2016 **The CAGS/PROQUEST-UMI Distinguished Dissertation Award (nominated)**, nomination for Ph.D. thesis.

2015 **Departmental travel award**, Travel grant in support of attendance of the Meeting of the Society for Neuroscience, Chicago, IL. October 18<sup>th</sup> 2015.

2015 **Departmental travel award**, Travel grant in support of attendance of the Twenty-Second Annual Meeting of the Society for the Scientific Study of Reading, Hapuna Beach Prince Hotel, Big Island, HI, USA. July 18<sup>th</sup> 2015

2013 – 2014 **Lewis & Ruth Sherman Centre for Digital Scholarship**, Graduate fellowship

2012 – 2016 **Ontario Trillium Scholarship**, International PhD scholarship program

2012 – 2016 **McMaster International Excellence Award** (Declined)

2012 – 2016 **McMaster Graduate Scholarship** (Declined)

2010 **York St John University Business School Prize**, Award in recognition of outstanding academic achievement

## TEACHING

2025 Course Instructor (Winter term). Laboratory in Experimental Linguistics. McMaster University, Canada.

2024 Course Instructor (Fall term). Computers and Linguistic Analysis. McMaster University, Canada.

2023 Course Instructor (Winter term). Laboratory in Experimental Linguistics. McMaster University, Canada.

2022 Course Instructor (Winter term). Statistics for Language Research. McMaster University, Canada.

2021 Course Instructor (Fall term). Computers and Linguistic Analysis. McMaster University, Canada.

2021 Course Instructor (Winter term). Statistics for Language Research. McMaster University, Canada.

2020 Course Instructor (Fall term). Computers and Linguistic Analysis. McMaster University, Canada.

2020 Course Instructor (Winter term). Statistics for Language Research. McMaster University, Canada.

2019 Course Instructor (Winter term). Statistics for Language Research. McMaster University, Canada.

2018 Course Instructor (Winter term). Computers and Linguistic Analysis. McMaster University, Canada.

2017 Course Instructor (Fall term). The Art of Leadership. McMaster University, Canada.

2017 Course Instructor (Winter term). Statistics for Language Research. McMaster University, Canada.

## PRESENTATIONS

### REFEREED

2022 **Schmidtke, D.**, Rahmanian, S. & Moro, A.L. "Tracking reading development in an English language bridging program: Evidence from eye-movements during passage reading". Talk. **Twenty-Ninth Annual Meeting of the Society for the Scientific Study of Reading**, Newport Beach Marriott Hotel & Spa, CA, USA. July 17<sup>th</sup>.

2021 **Schmidtke, D.**, Rahmanian, S. & Moro, A. "Reading experience drives L2 reading development: a longitudinal study of EAL reading habits". Presentation. **Words in the World International Conference**, Online. November 19<sup>th</sup>.

2020 **Schmidtke, D.**, Rahmanian, S. & Moro, A. "The role of language experience on morphological knowledge: a longitudinal study of written complex word production in second language learners". Presentation. **Meeting of the Psychonomic Society**, Online. November 26<sup>th</sup>.

2020 **Schmidtke, D.**, Rahmanian, S. & Moro, A. "A head start in reading ability: The effect of early phonological awareness on change in ESL passage reading behaviour and reading habits". Presentation. **Words in the World International Conference**, Online. October 16<sup>th</sup>.

2018 **Schmidtke, D.** & Moro, A. "Word reading development in EFL university students". Poster. **Meeting of the Psychonomic Society**, New Orleans, LA. November 15<sup>th</sup>.

2018 **Schmidtke, D.**, Warriner, A. B., Kuperman, V., & Moro, A. "Reading development in EFL students: A within-participant eye-movement study". Talk. **Second Language Research Forum: On the Contribution of Cognitive Science to Second Language Research**, Montréal, QC. October 26<sup>th</sup>.

2018 **Schmidtke, D.**, Warriner, A., & Moro, A. "Determinants of Successful Reading Development in L2 English Learners: A Within Participant Eye-movement Study". Poster. **11<sup>th</sup> International Conference on the Mental Lexicon**, Edmonton, AB. September 26<sup>th</sup>.

2017 **Schmidtke, D.**, Gagné, C. L., Spalding, T. L., Kuperman, V. & Tucker, B. V. "Conceptual relations compete during auditory and visual compound word recognition". Poster. **Meeting of the Psychonomic Society**, Vancouver, BC. November 10<sup>th</sup>.

2017 **Schmidtke, D.** Warriner, A., Kuperman, V. & Moro, A. "How L2 instruction influences eye-movements during reading: a within-participant study of English learners". Poster. **19<sup>th</sup> European Conference on Eye Movements**, Wuppertal, Germany. August 23<sup>rd</sup>.

2017 **Schmidtke, D.**, Gagné, C. L., Kuperman, V. & Spalding, T. L. "The role of competition between conceptual relations during compound word recognition: Evidence from spoken and visual word recognition". Talk. **International Morphological Processing Conference**, Trieste, Italy. June 23<sup>rd</sup>.

2017 Kuperman, V., **Schmidtke, D.** & Matsuki, K. "Survival analysis: A tool for timing semantic and formal effects on derived and compound word recognition". Talk. **International Morphological Processing Conference**, Trieste, Italy. June 23<sup>rd</sup>.

2017 Snefjella, B., **Schmidtke, D.** & Kuperman, V. "National Character Stereotypes Correspond to a Nations Distinctive Words". Poster. **Society for Personality and Social Psychology**, San Antonio, TX. Jan 20<sup>th</sup>.

2016 **Schmidtke, D.**, Matsuki, K. & Kuperman, V. "Surviving meaningless decomposition: a non-parametric view of the time-course of complex word recognition". Talk. **10<sup>th</sup> International Conference on the Mental Lexicon**, Ottawa, ON. Oct 21<sup>st</sup>.

2016 **Schmidtke, D.**, Kuperman, V., Gagné, C. L. & Spalding, T. L. "Processing compound relational structure is contingent on reading skill: evidence from eye-tracking". Poster. **10<sup>th</sup> International Conference on the Mental Lexicon**, Ottawa, ON. Oct 20<sup>th</sup>.

2016 **Schmidtke, D.**, Service, E., Mah, R. & Connolly, J. F. "N400 evidence for embodied processing of concrete words after a picture context". Poster. **10<sup>th</sup> Annual Canadian Neuroscience Meeting**, Toronto, ON. June 1<sup>st</sup>.

2015 **Schmidtke, D.**, Kuperman, V. & Snefjella, B. "Using Twitter to Examine Geo-Linguistic Variation at the National Border". Poster. **Meeting of the Psychonomic Society**, Chicago, IL. November 20<sup>th</sup>.

2015 **Schmidtke, D.**, Service, E., Mah, R. & Connolly, J. F. "N400 evidence for embodied processing of concrete words after a picture context". Poster. **Meeting of the Society for Neuroscience**, Chicago, IL. October 18<sup>th</sup>.

2015 **Schmidtke, D.**, Kuperman, V. & Van Dyke, J. A. "The role of semantic transparency on the processing of English compound words: insights from individual differences". Talk. **American International Morphology Meeting 3**, Amherst, MA. October 4<sup>th</sup>.

2015 **Schmidtke, D.**, Kuperman, V. & Van Dyke, J. A. "The role of semantic transparency on the processing of English compound words: insights from individual differences". Poster. **Eighth Annual European Conference on Eye Movements**, Vienna, Austria. August 16<sup>th</sup>.

2015 **Schmidtke, D.**, Kuperman, V. & Van Dyke, J. A. "It's all going to pieces: The role of individual differences and emotion in complex word recognition". Talk. **Twenty-Second Annual Meeting of the Society for the Scientific Study of Reading**, Hapuna Beach Prince Hotel, Big Island, HI, USA. July 18<sup>th</sup>.

2015 Chapman, C., Doran, D. & **Schmidtke, D.** "Testing the constraints on evidentiality in English: A forced-choice acceptability judgement task". Talk. **Experimental Approaches to Semantics**, Universitat Pompeu Fabra, (Barcelona, Spain), August 3<sup>rd</sup>-7<sup>th</sup>.

2015 Chapman, C., Doran, D. & **Schmidtke, D.** "On the elements of discourse encoded in English evidential constructions". Poster. **Discourse Expectations: Theoretical, Experimental, and Computational Perspectives**, University of Alberta, June 17<sup>th</sup>–19<sup>th</sup>.

2015 Chapman, C., Doran, D. & **Schmidtke, D.** "The locus of evidentiality in English". Talk. **Canadian Linguistics Association**, University of Ottawa, May 30<sup>th</sup>–June 1<sup>st</sup>

2014 **Schmidtke, D.** & Mander, P. "Mass counts in the World Wide Web: A corpus linguistic study of noun countability in non-native varieties of English". Poster. **9th International Conference on the Mental Lexicon**, Niagara-on-the-lake, ON, Canada. October 2<sup>nd</sup>.

2014 **Schmidtke, D.**, Kuperman, V. & Van Dyke, J. A. "Does everybody see a *stripper* in *paintstripper*? Individual differences in the effects of semantic transparency on compound processing". Poster. **Twenty-First Annual Meeting of the Society for the Scientific Study of Reading**, Santa Fe, NM, USA. July 17<sup>th</sup>.

2014 **Schmidtke, D.** & Kuperman, V. "Mass counts in the World Wide Web: A corpus linguistic study of noun countability across varieties of English". Talk. **Canadian Linguistic Association**, Congress of the Humanities and Social Sciences at Brock University St. Catharines, Ontario, Canada. May 24<sup>th</sup> 2014.

2013 **Schmidtke, D.** "Investigating the time-course of semantic access during morphological processing: An eye-tracking study using the gaze-contingent paradigm". Talk. **5th Annual Western Interdisciplinary Student Symposium on Language Research**, Western University, London, Ontario, Canada.

## INVITED

2024 **Schmidtke, D.** "Reading Development as a Pathway to International Student Success: A focus on academic bridging programs textquotedbl. **Invited talk**, Inaugural CSSIC Research Fellow Research Talk, Mohawk College, Hamilton, Canada, August 20<sup>th</sup>.

2022 **Schmidtke, D.** "Tracking reading development in an English language bridging program: Evidence from eye movements during passage reading". **Invited talk**, Michigan State University, Michigan, USA. November 7<sup>th</sup>.

2014 **Schmidtke, D.** "What can latent semantic analysis reveal about morphology in the lexicon? Evidence from eye-movements and corpus data". **Invited talk**, York St. John University, York, UK. April 30<sup>th</sup>.

## MEDIA INTERVIEWS

Television interview with Global News Network, Canada, January 7<sup>th</sup> 2016.

Television interview with Ian Hanomansing. The National. Canadian Broadcasting Corporation, January 8<sup>th</sup> 2016.

Radio interview with Canadian Broadcasting Corporation Syndication. January 8<sup>th</sup> 2016.

Radio interview with Scott Thompson. Scott Thompson show. CHML AM900, Hamilton. January 8<sup>th</sup> 2016.



Newspaper interview with Toronto Star, <https://www.thestar.com/news/gta/2016/01/08/canadians-more-polite-on-twitter-than-americans-study-says.html>, Online, January 8<sup>th</sup> 2016. Print, January 9<sup>th</sup> 2016.

Radio interview with Doug McIntyre. Doug McIntyre Show. KABC Radio AM790–Los Angeles/OC–Monday morning drive time west coast USA, January 11<sup>th</sup> 2016.

Radio interview with John Maciel. KW Magazine. CKWR FM. Kitchener, Ontario. January 27<sup>th</sup>.

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## RELEVANT SKILLS

### **Experimental Programming**

Working knowledge of ExperimentBuilder, DataViewer, DMDX, E-Prime

### **Experiment Design, Data Analysis, Data Visualization and Word Processing**

R, ggplot, Sweave,  $\text{\LaTeX}$  Brain Vision Analyzer, Microsoft Office Suite (Excel, Word, Powerpoint), SPSS (PASW), Stata

### **Full UK Driving Licence**