

Matthew J. Cooper Borkenhagen

CONTACT

Florida State University | Assistant Professor in Reading Education
School of Teacher Education Florida Center for Reading Research
1114 W. Call Street 2010 Levy Avenue, Suite 100
Tallahassee, FL 32311 Tallahassee, FL 32310
mcooperborkenhagen.github.io
mcooperborkenhagen@fsu.edu

EDUCATION

Ph.D., Department of Psychology - 2023
Cognitive and Cognitive Neuroscience (Adviser: Mark Seidenberg)
Graduate Minors: Education Sciences, Educational Psychology
University of Wisconsin - Madison
M.S., Department of Psychology - 2017
University of Wisconsin - Madison
M.A., Education (Special Education) - 2015
San Jose State University
M.A., Linguistics - 2013
San Francisco State University
B.A., Linguistics & Literature - 2004
University of California at Santa Cruz

DISSERTATION

A Time-varying Computational Model of Learning to Read Printed Words Aloud [[link](#)]

PUBLICATIONS

Wang, T., Cooper Borkenhagen, M., Barker, M., & Seidenberg, M.S. (2022) Meanings within meanings: Skilled readers activate irrelevant meanings of radicals and phonetics in Chinese. *Reading and Writing*. [[pdf](#)]

Lewis, M., Cooper Borkenhagen, M., Converse, E., Lupyan, G., & Seidenberg, M. S. (2022). What might books be teaching young children about gender? *Psychological Science*, 33(1), 1 - 15.

Seidenberg, M. S., Cooper Borkenhagen, M., & Kearns, D. M. (2020). Lost in translation? Challenges in connecting reading science and educational practice. *Reading Research Quarterly*, 55(S1), S119 – S130.

Seidenberg, M. S., & Cooper Borkenhagen, M. (2020). Reading science and educational practice: Some tenets for teachers. *The Reading League Journal*, 1(1), 7-11.

Cox, C., Cooper Borkenhagen, M., & Seidenberg, M. S. (2019) Efficiency of learning in experience-limited domains: Generalization beyond the WUG test. In A.K. Goel, C.M Seifert, & C. Freksa (Eds.), *Proceedings of the 41st Annual Conference of the Cognitive Science Society* (pp. 1566-1571). Montreal, QB. Cognitive Science Society. [[pdf](#)]

UNDER REVIEW	<p>Rigobon, V., Gutierrez, N., Steacy, L., Edwards, A., Cooper Borkenhagen, M., Marencin, N., & Compton, D. (<i>under review</i>). Modeling item-level spelling variance in adults: Providing further insights into lexical quality.</p> <p>Cooper Borkenhagen, M., Lewis, M., Borman, M., Converse, E., & Seidenberg, M. S. (<i>under review</i>). Words in child-directed texts are not the same as those in child-directed speech.</p>
UPCOMING	<p>Sen, A., Cox, C. R., Cooper Borkenhagen, M., Seidenberg, M. S., & Zhu, X. (in prep). Learning to read through machine teaching. [pdf]</p> <p>Cooper Borkenhagen, M., Schilling, L., & Seidenberg, M. S. (in prep). Special words: The contents of popular sight word inventories and their instructional framing.</p>
AWARDS, FELLOWSHIPS	<p>University Fellowship, UW Madison. 2015-2020.</p> <p>Fellow, Interdisciplinary Training Program in Ed. Sciences, UW Madison. 2016-2023.</p> <p>Menzies Research Award, UW Madison Psychology Department. 2019.</p> <p>Department Travel Award, UW Madison Psychology Department. Summer 2018.</p> <p>Predocotrual Mentee, NICHD LD Hub Grant (P20). Florida Center for Reading Research (Florida State University) & Haskins Laboratories (UConn, Yale). 2017-2019.</p> <p>Network Fellowship, UW Madison Network Fellows Program. Wisconsin Department of Public Instruction/Wisconsin Literacy. 2016-2017.</p> <p>Bertha Kalm Scholarship, San Jose State University. 2014-2015.</p> <p>Robert L. and Eleanor S. Brady Scholarship, San Jose State University. 2014-2015.</p>
OTHER PROFESSIONAL	<p><i>Graduate Research Assistant</i> (2015-present) Department of Psychology, UW Madison</p> <p><i>Graduate Research Assistant</i> (2016-2019) Wisconsin Center for Education Research – UW Madison</p> <p><i>Science Adviser</i> (2016-2018), Wisconsin Literacy</p> <p><i>Consultant</i> (2015-2016) Charles Armstrong School for Dyslexia - Belmont, CA</p> <p><i>4th Grade Teacher</i> (2010-2015) Charles Armstrong School for Dyslexia - Belmont, CA</p>
SERVICE	<p>Symposium on Research in Child Language Disorders (2019). Madison, WI</p> <p>Graduate Student Review Committee</p> <p>Psychology Colloquium Committee Member, UW - Madison (2015-2019)</p> <p>Chair (2017-2018)</p> <p>Treasurer (2016-2017)</p>

MEMBERSHIPS

The International Dyslexia Association (IDA)
The Society for the Scientific Study of Reading (SSSR)
Cognitive Science Society
International Literacy Association (ILA)
American Education Research Association (AERA)
Institute of Electrical and Electronics Engineers (IEEE)

TALKS, POSTERS

Cooper Borkenhagen, M. (2022). Grounding early reading instruction in a theory of learning: Deciding what to teach and why. Invited talk at Skidmore College & SUNY Albany. [[slides](#)]

Schilling, L., Cooper Borkenhagen, M., & Seidenberg, M. S. (2022). Inconsistent treatment of “sight words” in instructional materials. Poster presented at the 29th Meeting of the Society for the Scientific Study of Reading. Newport Beach, CA. Society for the Scientific Study of Reading. [[slides](#)]

Sun, Q., Huang, C., Casey, K., Cooper Borkenhagen, M., & Wang, T. (2022). Rates of gender representation in children’s literature across cultures: A comparison of US versus Chinese children’s books. Poster presented at the 2022 meeting of the Child Development Society. Madison, WI.

Cooper Borkenhagen, M., Sen., A., Cox, C., Seidenberg, M., & Zhu, J. (2020). Enhancing generalization through an optimized sequential curriculum: Learning (to read) through machine teaching. Proceedings of the 2020 Meeting of the Cognitive Science Society. Toronto, Ontario, Canada. Cognitive Science Society.

Cooper Borkenhagen, M., Siegelman, N., Seidenberg, M. S., & Rueckl, J. G. (2020). The effect of reliability of print-speech correspondences on generalization in word reading development: A computational approach. Poster presented at the 28th Meeting of the Society for the Scientific Study of Reading (cancelled due to COVID-19). Newport Beach, CA. Society for the Scientific Study of Reading.

Seidenberg, M. S., Korenuk, R. E., & Cooper Borkenhagen, M. (2020). Children’s books for general and African American audiences: Comparisons of language and content. Poster presented at the 28th Meeting of the Society for the Scientific Study of Reading (cancelled due to COVID-19). Newport Beach, CA.

Cooper Borkenhagen, M. (2020) Navigating a quasiregular system: Efficiency and generalization in the early stages of learning to read. Talk at the 2020 conference for the International Dyslexia Association (online due to COVID-19).

Schilling, L., Cooper Borkenhagen, M., & Seidenberg, M. S. (2020). Words that children are taught differ from those they read and hear: Evidence from a popular reading curriculum. Poster presented at Wisconsin Center for Education Research Poster Fair (cancelled due to COVID-19). Madison, Wisconsin. Wisconsin Center for Education Research. [[poster](#)]

Cox, C., Cooper Borkenhagen, M., and Seidenberg, M. (2019) Efficiency of learning in experience-limited domains: Generalization beyond the WUG test. Proceedings of the 2019 Meeting of the Cognitive Science Society. Montreal, QB. Cognitive Science Society. [[poster](#)][[proceedings](#)]

Seidenberg, M.S. & Cooper Borkenhagen, M. (2019) Toward a new standard theory of learning to read. Paper presented at the 27th Meeting of the Society for the Scientific Study of Reading. Toronto, Canada. Society for the Scientific Study of Reading.

Converse, E., Lewis, M. Y., & Cooper Borkenhagen, M., Lupyan, G., & Seidenberg, M. S. (2020). Children's books are an early source of gender knowledge. Poster presented at the 27th Meeting of the Society for the Scientific Study of Reading. Toronto, Ontario, Canada. Society for the Scientific Study of Reading. [poster]

Cooper Borkenhagen, M., Cox, C., and Seidenberg, M. (2019) Efficient learning and maximal generalization: A new view of the early development of basic reading skills. Paper presented at the 27th Meeting of the Society for the Scientific Study of Reading. Toronto, Ontario, Canada. Society for the Scientific Study of Reading.

Cox, C., Cooper Borkenhagen, M., and Seidenberg, M. (2018) Learning to read with a machine teacher: Discovering efficient training procedures for training the orth-to-phon relationships in English. 2018 Meeting of the Cognitive Science Society [poster]. Madison, WI. July, 2018. [pdf]

Cooper Borkenhagen, M., Wang, T., Barker, M., & Seidenberg, M. (2018). Meanings within meanings: Skilled readers activate irrelevant meanings of radicals and phonetics in Chinese. 26th Meeting of the Society for the Scientific Study of Reading [poster]. Brighton, England. July, 2018.

Barker, M., Wang, T., Cooper Borkenhagen, M., & Seidenberg, M. (2018). Is dislike female in written Chinese? Computing sublexical semantics in Mandarin character reading. 2018 Undergraduate Research Symposium at UW Madison [poster]. Madison, WI. May, 2018.

Lei, X. & Cooper Borkenhagen, M. *Structural competition effect in L1 Mandarin speakers' production of English articles*. The Second Language Research Forum [talk]. 2017 October 12th -15th. Columbus, OH.

Beginning to read. (November 2017). Course guest lecture: The science of reading and its educational implications (Prof. Mark Seidenberg). Department of Psychology, UW Madison.

Cooper Borkenhagen, M. & Seidenberg, M. (2017). Where language meets math: The impact of reading skill on solving math story problems. 25th Meeting of the Society for the Scientific Study of Reading [talk]. Halifax, Nova Scotia, Canada. July, 2017.

Reading science in reading pedagogy. (November, 2016). Guest Lecture (two lectures), Course: Teaching reading and writing (Instructor: Melanie Obitz-Bukartek). Department of Curriculum & Instruction. UW Madison.

Automaticity and the Assessment of Elementary-aged Children with LD (October 2014, March 2015). Course guest lecture: Teaching children with special needs (Prof. Jennifer Madigan). Special Education Dept. Notre Dame de Namur University. Belmont, CA.

MENTORSHIP

Research assistants, mentees:

Madison Barker (Graduate student, UC Davis, Psychology)
 Cher Yang (Graduate student, University of Washington, Psychology)
 Christine White (Graduate student, Florida State University, Psychology)
 Ellen Converse (Research Specialist, UW-Madison)
 Lauren Schilling (graduate student, Harvard University, Education)