



## CURRICULUM VITAE

### **Erik D. Reichle**

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#### **CONTACT INFORMATION**

Department of Psychology  
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#### **EDUCATION**

- PhD, Cognitive Psychology, University of Massachusetts at Amherst, 1997
- MS, Cognitive Psychology, University of Massachusetts at Amherst, 1993
- BS, Psychology, Iowa State University, 1990

#### **ACADEMIC EMPLOYMENT HISTORY**

- Professor and Head of Department of Psychology, Macquarie University, North Ryde, Australia, 2017-present
- Head of Department of Psychology, University of Southampton, Southampton, UK, 2015-2017
- Professor of Cognitive Psychology, University of Southampton, Southampton, UK, 2013-2017
- Associate Professor of Psychology, University of Pittsburgh, Pittsburgh, PA, USA, 2006-2013
- Training Faculty, Center for Neuroscience, University of Pittsburgh, Pittsburgh, PA, USA, 2005-2013
- Assistant Professor of Psychology, University of Pittsburgh, Pittsburgh, PA, USA, 2001-2006
- Faculty Affiliate, Center for the Neural Basis of Cognition (CNBC), University of Pittsburgh, Pittsburgh, PA, USA, 2001-2013
- Research Scientist, Learning Research & Development Center (LRDC), University of Pittsburgh, Pittsburgh, PA, USA, 2001-2013
- Post-Doctoral Research Scientist, LRDC, University of Pittsburgh, Pittsburgh, PA, USA, 2000-2001
- Post-Doctoral Research Scientist, Center for Cognitive Brain Imaging, Department of Psychology, Carnegie Mellon University, Pittsburgh, PA, USA, 1997-2000

## INTERESTS

- Research: (1) attention; (2) computational models; (3) eye-movement control; (4) reading; and (5) word identification
- Teaching: (1) *Cognitive Psychology*; (2) *Computational Modeling*; (3) *Research Methods*; and (4) *Statistics*

## PROFESSIONAL AFFILIATIONS

- Center for Elite Performance, Expertise, and Training, Macquarie University, 2017-present
- Macquarie University Center for Reading, 2018-present
- Perception in Action Research Center, Macquarie University, 2018-present

## HONORS & FELLOWSHIPS

- National Thousand Talents Award (Recruitment Program for Global Experts), China, 2016
- Leverhulme Visiting Professorship, University of Southampton, Southampton, UK, 2012
- Honorary Member of Golden Key International Honor Society, 2011
- Fellow, Hanse-Wissenschaftskolleg (Hanse Institute for Advanced Study), Delmenhorst, Germany, 2008
- NIMH National Research Service Award Grant, Training in Applied & Basic Cognition, 1990, 1994, 1995, 1996
- Psi Chi National Honor Society in Psychology, 1989

## BOOKS

- **Reichle, E. D.** (2019). *Computational models of reading: A handbook*. Oxford, UK: Oxford University Press.

## PEER-REVIEWED JOURNAL ARTICLES (*Note: \* student co-author*)

- (71) Hermena, E. W. & **Reichle, E. D.** (2019). Reading an alphabetic language with semi-shallow orthography and Semitic morphology: The case of Arabic. Manuscript in preparation.
- (70) Liao, S., Yu, L., **Reichle, E. D.**, & Kruger, J.-L. (2019). An eye-movement study of skilled reading in multi-modal contexts. Manuscript in preparation.
- (69) Liu, Y., Yu, L., & **Reichle, E. D.** (2019). Towards a model of eye-movement control in Chinese reading. Manuscript in preparation.
- (68) Yu, L., Liu, Y., & **Reichle, E. D.** (2019). A large-scale eye-movement study of Chinese reading: Implications for reading models, past and future. Manuscript in preparation.
- (67) Liu, Y., Yu, L., \*Fu, L., \*Li, W., \*Duan, Z., & **Reichle, E. D.** (2019). The effects of parafoveal word frequency and segmentation on saccade targeting during Chinese reading. *Psychonomic Bulletin & Review*. Manuscript in press.
- (66) Liu, Y., \*Yu, L., & **Reichle, E. D.** (2019). The influence of parafoveal preview, character transposition, and word frequency on saccadic targeting in Chinese reading. *Journal of Experimental Psychology: Learning, Memory, and Cognition*. Manuscript in press.

- (65) Liu, Y., \*Yu, L., & **Reichle, E. D.** (2019). The dynamic adjustment of saccades during reading: Evidence from eye movements and simulations. *Journal of Experimental Psychology: Learning, Memory, and Cognition*. Manuscript in press.
- (64) Yu, L., Xiong, J., Zhang, Q., Dreighe, D., & **Reichle, E. D.** (2019). Eye-movement evidence for the mental representation of strokes in Chinese characters. *Journal of Experimental Psychology: Learning, Memory, and Cognition*. Manuscript in press.
- (63) Liu, Y. & **Reichle, E. D.** (2018a). Eye movement evidence for object-based attention in reading. *Psychological Science, 29*, 278-287.
- (62) Liu, Y. & **Reichle, E. D.** (2018b). Using eye movements to understand the leakage of information during Chinese reading. *Psychonomic Bulletin & Review, 25*, 2323-2329.
- (61) Liu, Y., \*Guo, S., \*Yu, L., & **Reichle, E. D.** (2018). Word predictability affects saccade length in Chinese reading: An evaluation of the dynamic-adjustment model. *Psychonomic Bulletin & Review, 25*, 1981-1999.
- (60) McGowan, V. A. & **Reichle, E. D.** (2018). The “risky” reading strategy revisited: New simulations using E-Z Reader. *The Quarterly Journal of Experimental Psychology, 71*, 179-189.
- (59) **Reichle, E. D.** & Yu, L. (2018). Models of Chinese reading: Review and analysis. *Cognitive Science, 42*, 1154-1165.
- (58) Yu, L., Zhang, Q., \*Priest, C., **Reichle, E. D.**, & Sheridan, H. (2018). Character-complexity effects in Chinese reading and visual search: A comparison and theoretical implications. *The Quarterly Journal of Experimental Psychology, 71*, 140-151.
- (57) Godwin, H. J., **Reichle, E. D.**, & Menneer, T. (2017). Modeling lag-2 revisits to understand trade-offs in mixed control of fixation termination during visual search. *Cognitive Science, 41*, 996-1019.
- (56) Liu, Y., \*Huang, R., Gao, D.-G., & **Reichle, E. D.** (2017). Further tests of a dynamic-adjustment account of saccade targeting during the reading of Chinese. *Cognitive Science, 41*, 1264-1287.
- (55) Menneer, T., Godwin, H. J., Liversedge, S. P., Hillstrom, A. P., Benson, V., **Reichle, E. D.**, & Donnelly, N. (2017). The FVF framework and target prevalence effects. *Behavioral and Brain Sciences, 40*, 34-35.
- (54) Yu, L. & **Reichle, E. D.** (2017). Chinese vs. English: Insights on cognition during reading. *Trends in Cognitive Sciences, 21*, 721-724.
- (53) Liu, Y. & **Reichle, E. D.**, & Li, X. (2016). The effect of word frequency and parafoveal preview on saccade length during the reading of Chinese. *Journal of Experimental Psychology: Human Perception and Performance, 42*, 1008-1025.
- (52) Sheridan, H. & **Reichle, E. D.** (2016). An analysis of the time course of lexical processing during reading. *Cognitive Science, 40*, 522-553.
- (51) Sheridan, H., **Reichle, E. D.**, & Reingold, E. M. (2016). Why does removing inter-word spaces produce reading deficits? The role of parafoveal processing. *Psychonomic Bulletin & Review, 23*, 1543-1552.

- (50) Clifton, C., Jr., Ferreira, F., Henderson, J., Inhoff, A., Liversedge, S. P., **Reichle, E. D.**, & Schotter, E. R. (2015). Eye movements in reading and information processing: Keith Rayner's 40 year legacy. *Journal of Memory and Language*, *86*, 1-19.
- (49) \*Mancheva, M., **Reichle, E. D.**, Lemaire, B., Valdois, S., Ecalle, J., & Guérin-Dugué, A. (2015). An analysis of reading skill development using E-Z Reader. *Journal of Cognitive Psychology*, *27*, 657-676.
- (48) Liu, Y., **Reichle, E. D.**, Li, X. (2015). Parafoveal processing affects outgoing saccade length during the reading of Chinese. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *41*, 1229-1236.
- (47) **Reichle, E. D.** (2015). Computational models of reading: A primer. *Language and Linguistic Compass*, *9*, 271-284.
- (46) **Reichle, E. D.** & Drieghe, D. (2015). Using E-Z Reader to examine the consequences of fixation-location measurement error. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *41*, 262-270.
- (45) \*Yu, L., **Reichle, E. D.**, Jones, M., & Liversedge, S. P. (2015). RadicalLocator: A software tool for identifying the radicals in Chinese characters. *Behavior Research Methods*, *47*, 826-836.
- (44) Godwin, H. J., **Reichle, E. D.**, & Menneer, T. (2014). Coarse-to-fine eye-movement behavior during visual search. *Psychonomic Bulletin & Review*, *21*, 1244-1249.
- (43) Schotter, E. R., **Reichle, E. D.**, & Rayner, K. (2014). Re-thinking parafoveal processing in reading: Serial-attention models can explain semantic preview benefit and N+2 preview effects. *Visual Cognition*, *22*, 309-333.
- (42) Williams, C. C., Pollatsek, A., & **Reichle, E. D.** (2014). Examining eye movements in visual search through clusters of objects in a circular array. *Journal of Cognitive Psychology*, *26*, 1-14.
- (41) \*Liu, Y., **Reichle, E. D.**, & Gao, D.-G. (2013). Using reinforcement learning to examine dynamic attention allocation during reading. *Cognitive Science*, *37*, 1507-1540.
- (40) **Reichle, E. D.** & Drieghe, D. (2013). Using E-Z Reader to examine word skipping during reading. *Journal of Experimental Psychology: Learning, Memory, & Cognition*, *39*, 1311-1320.
- (39) **Reichle, E. D.**, Liversedge, S. P., Drieghe, D., Blythe, H. I., Joseph, H. S. S. L., White, S. J., & Rayner, K. (2013). Using E-Z Reader to examine the concurrent development of eye-movement control and reading skill. *Developmental Review*, *33*, 110-149.
- (38) **Reichle, E. D.** & Reingold, E. M. (2013). Neurophysiological constraints on the eye-mind link. *Frontiers in Human Neuroscience*, *7*:361, doi: 10.3389/fnhum.2013.00361.
- (37) **Reichle, E. D.**, Pollatsek, A., & Rayner, K. (2012). Using E-Z Reader to simulate eye movements in non-reading tasks: A unified framework for understanding the eye-mind link. *Psychological Review*, *119*, 155-185.
- (36) **Reichle, E. D.**, Rayner, K., & Pollatsek, K. (2012). Eye movements in reading versus non-reading tasks: Using E-Z Reader to understand the role of word/stimulus familiarity. *Visual Cognition*, *20*, 360-390.

- (35) Reingold, E. M., **Reichle, E. D.**, Glaholt, M. G., & \*Sheridan, H. (2012). Direct lexical control of eye movements in reading: Evidence from survival analysis of fixation durations. *Cognitive Psychology*, *65*, 177-206.
- (34) \*Vanyukov, P. M., Warren, T., Wheeler, M. E., & **Reichle, E. D.** (2012). The emergence of frequency effects in eye movements. *Cognition*, *123*, 185-189.
- (33) **Reichle, E. D.**, Tokowicz, N., Liu, Y., & Perfetti, C. A. (2011). Testing an assumption of the E-Z Reader model of eye-movement control during reading: Using event-related potentials to examine the familiarity check. *Psychophysiology*, *48*, 993-1003.
- (32) Schooler, J. W., Smallwood, J., Christoff, K., Handy, T. C., **Reichle, E. D.**, & Sayette, M. A. (2011). Meta-awareness, perceptual decoupling and the wandering mind. *Trends in Cognitive Sciences*, *15*, 319-326.
- (31) Warren, T., **Reichle, E. D.**, \*Patson, N. D. (2011). Lexical and post-lexical complexity effects on eye movements in reading. *Journal of Eye Movement Research*, *4*, 1-10.
- (30) White, S. J., Warren, T., & **Reichle, E. D.** (2011). Parafoveal preview during reading: Effects of sentence position. *Journal of Experimental Psychology: Human Perception and Performance*, *37*, 1221-1238.
- (29) \*Liu, Y. & **Reichle, E. D.** (2010). The emergence of adaptive eye movements in reading. In S. Ohlsson & R. Catrbone (Eds.), *Proceedings of the 32<sup>nd</sup> Annual Conference of the Cognitive Science Society* (pp. 1136-1141). Austin, TX: Cognitive Science Society.
- (28) Rayner, K. & **Reichle, E. D.** (2010). Models of the reading process. *WIREs Cognitive Science*, *1*, 787-799.
- (27) **Reichle, E. D.**, \*Reineberg, A. E., & Schooler, J. W. (2010). Eye movements during mindless reading. *Psychological Science*, *21*, 1300-1310.
- (26) Sayette, M. A., Schooler, J. W., & **Reichle, E. D.** (2010). Out for a smoke: The impact of cigarette craving on zoning-out during reading. *Psychological Science*, *21*, 26-30.
- (25) Rayner, K., Pollatsek, A., Liversedge, S. P., & **Reichle, E. D.** (2009). Eye movements and non-canonical reading: Comments on Kennedy and Pynte (2008). *Vision Research*, *49*, 2232-2236.
- (24) **Reichle, E. D.**, Liversedge, S. P., Pollatsek, A., & Rayner, K. (2009). Encoding multiple words simultaneously in reading is implausible. *Trends in Cognitive Sciences*, *13*, 115-119.
- (23) **Reichle, E. D.**, Warren, T., & \*McConnell, K. (2009). Using E-Z Reader to model the effects of higher-level language processing on eye movements during reading. *Psychonomic Bulletin & Review*, *16*, 1-21.
- (22) Sayette, M. A., **Reichle, E. D.**, & Schooler, J. W. (2009). Lost in the sauce: The effects of alcohol on mind-wandering. *Psychological Science*, *20*, 747-752.
- (21) Warren, T., White, S. J., & **Reichle, E. D.** (2009). Wrap up effects can be independent of interpretative processing: Evidence from eye movements. *Cognition*, *111*, 132-137.
- (20) Pollatsek, A., Juhasz, B. J., **Reichle, E. D.**, Machacek, D., & Rayner, K. (2008). Immediate and delayed effects of word frequency and word length on eye movements

in reading: A delayed effect of word length. *Journal of Experimental Psychology: Human Perception and Performance*, 34, 726-750.

- (19) **Reichle, E. D.**, \*Vanyukov, P. M., \*Laurent, P. A., & Warren, T. (2008). Serial or parallel? Using depth-of-processing to examine attention allocation during reading. *Vision Research*, 48, 1831-1836. [Corrigendum in: *Vision Research*, 50, 2028.]
- (18) Rayner, K., Pollatsek, A., Drieghe, D., Slattery, T. J., & **Reichle, E. D.** (2007). Tracking the mind during reading via eye movements: Comments on Kliegl, Nuthmann, and Engbert (2006). *Journal of Experimental Psychology: General*, 136, 520-529.
- (17) Pollatsek, A., **Reichle, E. D.**, & Rayner, K. (2006a). Tests of the E-Z Reader model: Exploring the interface between cognition and eye-movement control. *Cognitive Psychology*, 52, 1-56.
- (16) Pollatsek, A., **Reichle, E. D.**, & Rayner, K. (2006b). Attention to one word at a time is still a viable hypothesis: Rejoinder to Inhoff, Radach, and Eiter (2006). *Journal of Experimental Psychology: Human Perception and Performance*, 32, 1496-1500.
- (15) Pollatsek, A., **Reichle, E. D.**, & Rayner, K. (2006c). Serial processing is consistent with the time course of linguistic information extraction from consecutive words during eye fixations in reading: A response to Inhoff, Eiter, and Radach (2005). *Journal of Experimental Psychology: Human Perception and Performance*, 32, 1485-1489.
- (14) Rayner, K., **Reichle, E. D.**, Stroud, M. J., Williams, C. C., & Pollatsek, A. (2006). The effects of word frequency, word predictability, and font difficulty on the eye movements of young and elderly readers. *Psychology and Aging*, 21, 448-465.
- (13) **Reichle, E. D.** (2006). Computational models of eye-movement control during reading: Theories of the "eye-mind" link. *Cognitive Systems Research*, 7, 2-3.
- (11) **Reichle, E. D.** & \*Laurent, P. A. (2006). Using reinforcement learning to understand the emergence of "intelligent" eye-movement behavior during reading. *Psychological Review*, 113, 390-408.
- (11) **Reichle, E. D.**, Pollatsek, A., & Rayner, K. (2006). E-Z Reader: A cognitive-control, serial-attention model of eye-movement control during reading. *Cognitive Systems Research*, 7, 4-22.
- (10) Rayner, K., Ashby, J., Pollatsek, A., & **Reichle, E. D.** (2004). The effects of frequency and predictability on eye fixations in reading: Implications for the E-Z Reader model. *Journal of Experimental Psychology: Human Perception and Performance*, 30, 720-732.
- (9) Rayner, K., Pollatsek, A., & **Reichle, E. D.** (2003). Eye movements in reading: Models and data. *Behavioral and Brain Sciences*, 26, 507-518.
- (8) **Reichle, E. D.** & \*Nelson, J. R. (2003). Local vs. global attention: Are two states necessary? Comment on Liechty et al., 2003. *Psychometrika*, 68, 543-549.
- (7) **Reichle, E. D.**, Rayner, K., & Pollatsek, A. (2003). The E-Z Reader model of eye movement control in reading: Comparisons to other models. *Behavioral and Brain Sciences*, 26, 445-476.

- (6) **Reichle, E. D.** & Perfetti, C. A. (2003). Morphology in word identification: A word experience model that accounts for morpheme frequency effects. *Scientific Studies of Reading, 7*, 219-237.
- (5) Carpenter, P. A., Just, M. A., & **Reichle, E. D.** (2000). Working memory and executive function: Evidence from neuroimaging. *Current Opinion in Neurobiology, 10*, 195-199.
- (4) **Reichle, E. D.**, Carpenter, P. A., & Just, M. A. (2000). The neural bases of strategy and skill in sentence-picture verification. *Cognitive Psychology, 40*, 261-295.
- (3) **Reichle, E. D.**, Rayner, K., & Pollatsek, A. (1999). Eye movement control in reading: Accounting for initial fixation locations and refixations within the E-Z Reader model. *Vision Research, 39*, 4403-4411.
- (2) **Reichle, E. D.**, Carpenter, P. A., & Just, M. A. (1998). The cortical systems mediating two sentence-picture verification strategies. *NeuroImage, 7*, p. S182.
- (1) **Reichle, E. D.**, Pollatsek, A., Fisher, D. L., & Rayner, K. (1998). Toward a model of eye movement control in reading. *Psychological Review, 105*, 125-157.

**INVITED ARTICLES & BOOK CHAPTERS (Note: \* student co-author)**

- (18) Andrews, S. & **Reichle, E. D.** (2019). The cognitive architecture of reading: The organization of an acquired skill. In P. Hagoort (Ed.), *Human language: From genes and brains to behavior*. Boston, MA, USA: MIT Press. Manuscript in press.
- (17) Liversedge, S. P., Castelano, M., **Reichle, E. D.**, & Ferreira, F. (2018). Editorial: Special issue in honor of Keith Rayner (1943-2015). *The Quarterly Journal of Experimental Psychology, 71*, 1-2.
- (16) **Reichle, E. D.** & Sheridan, H. (2015). E-Z Reader: An overview of the model and two recent applications. In A. Pollatsek & R. Treiman (Eds.), *Oxford handbook of reading* (pp. 277-292). Oxford, UK: Oxford University Press.
- (15) Reingold, E. M., Sheridan, H., & **Reichle, E. D.** (2015). Direct lexical and non-lexical control of fixation duration in reading. In A. Pollatsek & R. Treiman (Eds.), *Oxford handbook of reading* (pp. 261-276). Oxford, UK: Oxford University Press.
- (14) **Reichle, E. D.** (2013). The development of eye-movement control and reading skill. In B. Miller, L. Cutting, & P. McCardle (Eds.), *Unraveling reading comprehension: Behavioral, neurobiological, and genetic components* (pp. 112-122). Baltimore, MD, USA: Brookes.
- (13) **Reichle, E. D.** (2011). Serial attention models of reading. In S. P. Liversedge, I. D. Gilchrist, & S. Everling (Eds.), *Oxford handbook of eye movements* (pp. 767-786). Oxford, UK: Oxford University Press.
- (12) **Reichle, E. D.**, \*Liu, Y., & Laurent, P. A. (2011). The emergence of adaptive eye movement control in reading: Theory and data. *Studies of Psychology and Behavior, 9*, 45-52. (Note: This is a special issue of a journal published in China.)
- (11) Pollatsek, A., Rayner, K., & **Reichle, E. D.** (2008). The E-Z Reader model of eye movement control in reading. In K. Rayner, D. Shen, X. Bai, & G. Yan (Eds.), *Cognitive and cultural influences on eye movements* (pp. 37-64). Tianjin, China: Tianjin's People Publishing.

- (10) **Reichle, E. D.** & Mason, R. A. (2007). The neural signatures of causal inferences: A preliminary computational account of brain-imaging and behavioral data. In F. Schmalhofer & C. A. Perfetti (Eds.), *Higher level language processes in the brain: Inference and comprehension processes* (pp. 211-232). Mahwah, NJ, USA: Erlbaum.
- (9) **Reichle, E. D.**, Pollatsek, A., & Rayner, K. (2007). Modeling the effects of lexical ambiguity on eye movements during reading. In R. P. G. Van Gompel, M. F. Fischer, W. S. Murray, & R. L. Hill (Eds.), *Eye movements: A window on mind and brain* (pp. 271-292) Oxford, UK: Elsevier.
- (8) Rayner, K., **Reichle, E. D.**, Pollatsek, A. (2006). Cognitive processes in reading: The E-Z Reader model of eye-movement control. In S. Andrews (Ed.), *From inkmarks to ideas: Challenges and controversies about word recognition and reading* (pp. 122-148). New York, NY, USA: Psychology Press.
- (7) Rayner, K., **Reichle, E. D.**, & Pollatsek, A. (2005). Eye movement control in reading and the E-Z Reader model. In G. Underwood (Ed.), *Cognitive processes in eye guidance* (pp. 131-162). New York, NY, USA: Oxford University Press.
- (6) Schooler, J. W., **Reichle, E. D.**, & Halpern, D. V. (2004). Zoning out while reading: Evidence for dissociations between experience and metaconsciousness. In D. T. Levin (Ed.), *Thinking and seeing: Visual metacognition in adults and children* (pp. 203-226). Cambridge, MA, USA: MIT Press.
- (5) Pollatsek, A., **Reichle, E. D.**, & Rayner, K. (2003). Modeling eye movements in reading: Extensions of the E-Z Reader model. In J. Hyönä, R. Radach & H. Deubel (Eds.), *The mind's eyes: Cognitive and applied aspects of oculomotor research* (pp. 361-390). Oxford, UK: Elsevier.
- (4) **Reichle, E. D.** & Rayner, K. (2002). Cognitive processing and models of reading. In G. K. Hung & K. J. Ciuffreda (Ed.), *Models of the visual system* (pp. 565-604). New York, NY, USA: Kluwer Academic.
- (3) Rayner, K., **Reichle, E. D.**, & Pollatsek, A. (2000). Eye movement control in reading: Updating the E-Z Reader model to account for initial fixation locations and refixations. In A. Kennedy, R. Radach, D. Heller, & J. Pynte (Eds.), *Reading as a perceptual process* (pp. 701-719). Oxford, UK: Elsevier.
- (2) Pollatsek, A., Rayner, K., Fischer, M. H., & **Reichle, E. D.** (1999). Attention and eye movements in reading. In J. Everatt (Ed.), *Reading and dyslexia: Visual and attentional processes* (pp. 179-209). London, UK: Routledge.
- (1) Rayner, K., **Reichle, E. D.**, & Pollatsek, A. (1998). Eye movement control in reading: An overview and model. In G. Underwood (Ed.), *Eye guidance in reading and scene perception* (pp. 243-268). Oxford, UK: Elsevier.

#### **CONFERENCE PRESENTATIONS (Note: \* student co-author)**

- (109) **Reichle, E. D.** & Schotter, E. R. (2019, August). Using simulations to understand parafoveal preview and the nature of lexical processing during reading. Paper to be presented at the 20<sup>th</sup> European Conference on Eye Movements, Alicante, Spain.



- (108) Kruger, J.-L., Liao, S., Yu, L., & **Reichle, E. D.** (2019, July). How the reading architecture adapts to dynamic multimodal contexts. Paper to be presented in E. Reichle (Chair), *The cognitive architecture of reading*. Symposium to be conducted at the 26<sup>th</sup> Annual Meeting of the Society for the Scientific Study of Reading, Toronto, Canada.
- (107) **Reichle, E. D.** Towards a model of the reading architecture. (2019, July). Paper to be presented in E. Reichle (Chair), *The cognitive architecture of reading*. Symposium to be conducted at the 26<sup>th</sup> Annual Meeting of the Society for the Scientific Study of Reading, Toronto, Canada.
- (106) Liao, S., Kruger, J.-L., Yu, L., & **Reichle, E. D.** (2019, June). The impact of multiple redundancies on subtitle processing and cognitive load. Paper to be presented at the 8<sup>th</sup> Media for All International Conference, Stockholm University, Stockholm, Sweden.
- (105) **Reichle, E. D.** (2019, April). Towards a model of reading. Paper to be presented at the 46<sup>th</sup> Annual Conference of the Australasian Society for Experimental Psychology, Wellington, New Zealand.
- (104) **Reichle, E. D.** (2018, April). The development of reading expertise: Exploratory analyses using E-Z Reader. Paper presented at the Center for Elite Performance, Expertise, and Training workshop, Macquarie University, Sydney, Australia.
- (103) Yu, Y. & **Reichle, E. D.** (2018, April). Eye-movement evidence for the mental representation of strokes in Chinese characters. Paper presented at the Australian Eye-Tracking Conference, Sydney, Australia.
- (102) **Reichle, E. D.** (2018, January). Towards a computational model of reading. Paper presented at the 2<sup>nd</sup> National Training Course for Psychological Statistics and Psychometric Teachers, Guangzhou, China.
- (101) Walenchok, S. C., **Reichle, E. D.**, & Goldinger, S. G. (2017, November). Investigating the relationship between attention and oculomotor programming using lexical decision. Poster to be presented at the 57<sup>th</sup> Annual Meeting of the Psychonomic Society, Vancouver, BC, Canada.
- (100) Yu, L., Zhang, Q., Priest, C., Sheridan, H., & **Reichle, E. D.** (2017, November). Character complexity effects in reading and visual search. Poster to be presented at the 57<sup>th</sup> Annual Meeting of the Psychonomic Society, Vancouver, BC, Canada.
- (99) Liu, Y. & **Reichle, E. D.** (2017, August). Eye-movement evidence for object-based attention in reading. Paper presented at the presented at the 19<sup>th</sup> European Conference on Eye Movements, Wuppertal, Germany.
- (98) **Reichle, E. D.** (2016, June). Towards a complete model of reading: Why it's important, preliminary results, and future endeavors. Paper presented at the First International Workshop of Reading Science: Our Current Understanding and Future Directions on Chinese Reading, Guangzhou, China.
- (97) Liu, Y. & **Reichle, E. D.** (2016, May). Further tests of a dynamic-adjustment account of saccade targeting during the reading of Chinese. Paper presented at the 7<sup>th</sup> China International Conference on Eye Movements, Changchun, China.

- (96) **Reichle, E. D.** (2016, May). Towards a complete model of reading. Keynote paper presented at the 7<sup>th</sup> China International Conference on Eye Movements, Changchun, China.
- (95) Yu, L., Zhang, Q., Priest, C., Sheridan, H., & **Reichle, E. D.** (2016, May). Character complexity effects in reading and visual search: A comparison and theoretical implications. Paper presented at the 7<sup>th</sup> China International Conference on Eye Movements, Changchun, China.
- (94) Sheridan, H., Reingold, E. M., & **Reichle, E. D.** (2015, November). Why does removing inter-word spaces produce reading deficits? Paper presented at the 56<sup>th</sup> Annual Meeting of the Psychonomics Society, Chicago, IL, USA.
- (93) Menneer, T., Godwin, H. J., & **Reichle, E. D.** (2015, August). Manipulating lag-2 revisits during visual search reveals evidence for mixed influences for fixation termination during visual search. Paper presented at the 18<sup>th</sup> European Conference on Eye Movements, Vienna, Austria.
- (92) **Reichle, E. D.** (2015, August). Computational modeling of reading: The “whole burrito”. Paper presented at the 18<sup>th</sup> European Conference on Eye Movements, Vienna, Austria.
- (91) Loboda, T. D. & **Reichle, E. D.** (2015, March). An eye-movement analysis of the visual and cognitive processes during mindful versus mindless reading. Paper presented at the Visual Aspects of Reading workshop, Grasmere, UK.
- (90) **Reichle, E. D.** (2015, March). Computational modeling of reading. Paper presented at the Visual Aspects of Reading workshop, Grasmere, UK.
- (89) Sheridan, H. & **Reichle, E. D.**, & Reingold, E. M. (2015, March). Using E-Z Reader to model fixation-duration distributions. Paper presented at the Visual Aspects of Reading workshop, Grasmere, UK.
- (88) Godwin, H. J., & **Reichle, E. D.**, & Menneer, T. (2014, November). Modelling fundamental components of eye-movement control during visual search. Poster presented at the 22<sup>nd</sup> Annual Workshop on Object Perception, Attention, and Memory, Long Beach, CA, USA.
- (87) Loboda, T. D. & **Reichle, E. D.** (2014, November). Detecting mindless reading from eye movements. Poster presented at the 55<sup>th</sup> Annual Meeting of the Psychonomic Society, Long Beach, CA, USA.
- (86) \*Mancheva, L., **Reichle, E. D.**, Guérin-Dugué, A., Lemaire, B., & Valdois, S. (2014, November). The development of reading skill: Exploratory analyses using the E-Z Reader model. Paper presented at the 55<sup>th</sup> Annual Meeting of the Psychonomic Society, Long Beach, CA, USA.
- (85) Sheridan, H., **Reichle, E. D.**, Reingold, E. (2014, November). Using E-Z Reader to model distributions of fixation durations. Paper presented at the 55<sup>th</sup> Annual Meeting of the Psychonomic Society, Long Beach, CA, USA.
- (84) \*Walenchok, S. C., **Reichle, E. D.**, Goldinger, S. D. (2014, November). Dissociating attention and saccades: Evidence against a strict premotor theory of attention. Poster

presented at the 55<sup>th</sup> Annual Meeting of the Psychonomic Society, Long Beach, CA, USA.

- (83) \*Mancheva, L., **Reichle, E. D.**, Guérin-Dugué, A., Lemaire, B., & Valdois, S. (2014, July). An analysis of reading skill development using the E-Z Reader model of eye-movement control in reading. Paper presented at the Meeting of the Experimental Psychology Society, Newcastle, UK.
- (82) Sheridan, H. & **Reichle, E. D.** (2014, July). Using E-Z Reader to examine the time course of lexical effects on fixation durations during reading. Paper presented at the Meeting of the Experimental Psychology Society, Newcastle, UK.
- (81) Liu, Y., **Reichle, E. D.**, & Li, X. (2014, May). Parafoveal processing affects out-going saccade length during the reading of Chinese. Paper presented at the 6<sup>th</sup> China International Conference on Eye Movements, Beijing, China.
- (80) **Reichle, E. D.** & Sheridan, H. (2014, May). Using E-Z Reader to examine the time course of lexical processing. Paper presented at the 6<sup>th</sup> China International Conference on Eye Movements, Beijing, China.
- (79) **Reichle, E. D.** (2013, October). Using E-Z Reader to simulate the eye movements of Chinese, English, and Finnish readers. Paper presented at the Symposium on Modeling Chinese Reading, Maynooth, Ireland.
- (78) **Reichle, E. D.** (2013, October). Practical example: Using E-Z Reader to examine developmental and cultural influences on readers' eye movements. Paper presented at the Symposium on Developmental Eye-Tracking Research in Reading, Hanover, Germany.
- (77) **Reichle, E. D.** (2013, September). The development of eye-movement control and reading skill. Paper presented at the Annual Meeting of the British Psychological Society's Cognitive and Developmental Sections, Reading, UK.
- (76) **Reichle, E. D.** & Dreighe, D. (2013, August). Using E-Z Reader to examine fixation-location measurement error. Paper presented at the 17<sup>th</sup> European Conference on Eye Movements, Lund, Sweden.
- (75) **Reichle, E. D.**, Liversedge, S. P., Dreighe, D., Blythe, H. I., Joseph, H. S. S. L., White, S. J., & Rayner, K. (2013, August). Using E-Z Reader to examine the concurrent development of eye-movement control and reading skill. Poster presented at the 17<sup>th</sup> European Conference on Eye Movements, Lund, Sweden.
- (74) **Reichle, E. D.** (2012, October). The use of eye movements to study L2 comprehension. Paper presented at the 31<sup>st</sup> Second Language Research Forum, Pittsburgh, PA, USA.
- (73) \*Vanyukov, P. M., Warren, T., & **Reichle, E. D.** (2012, September). Effects of statistical learning in eye movement behavior during a visual search task. Poster presented at the 20<sup>th</sup> Annual Conference on Architectures and Mechanisms for Language Processing, Riva del Garda, Italy.
- (72) **Reichle, E. D.** & Drieghe, D. (2012, July). Using E-Z Reader to examine word skipping during reading. Paper presented at the Meeting of the Experimental Psychology Society, Bristol, UK.

- (71) **Reichle, E. D.** (2012, June). The development of eye-movement control during reading. Paper presented at the 5<sup>th</sup> China International Conference on Eye Movements, Dalian, China.
- (70) **Reichle, E. D.** (2012, June). Using E-Z Reader to examine the concurrent development of eye-movement control and reading skill. Paper presented in L. Cuning & B. Miller (Chairs), *Unraveling the Behavioral, Neurobiological, and Genetic Components of Reading Comprehension*. Symposium conducted at Meeting of the Dyslexia Foundation, Tallinn, Estonia.
- (69) \*Loboda, T. D. & **Reichle, E. D.** (2011, August). The effects of mind-wandering and working memory capacity on text comprehension. Poster presented at the 16<sup>th</sup> European Conference on Eye Movements, Marseilles, France.
- (68) \*Loboda, T. D. & **Reichle, E. D.** (2011, August). Lag and successor effects during mindless reading. Paper presented at the 16<sup>th</sup> European Conference on Eye Movements, Marseilles, France.
- (67) **Reichle, E. D.**, Pollatsek, A., & Rayner, K. (2011, August). Using E-Z Reader to simulate eye movements in reading and non-reading tasks. Paper presented at the 16<sup>th</sup> European Conference on Eye Movements, Marseilles, France.
- (66) Reingold, E. M., **Reichle, E. D.**, Glaholt, M. G., & \*Sheridan, H. (2011, August). Direct lexical control of eye movements in reading: Evidence from survival analyses of fixation durations. Paper presented at the 16<sup>th</sup> European Conference on Eye Movements, Marseilles, France.
- (65) \*Vanyukov, P. M., Warren, T., & **Reichle, E. D.** (2011, August). Effect of frequency on eye movements in reading and visual search. Poster presented at the 16<sup>th</sup> European Conference on Eye Movements, Marseilles, France.
- (64) \*Vanyukov, P. M., Warren, T., & **Reichle, E. D.** (2011, August). Emergence of frequency effects in eye movements. Paper presented at the 16<sup>th</sup> European Conference on Eye Movements, Marseilles, France.
- (63) White, S. J., Warren, T., Staub, A., & **Reichle, E. D.** (2011, August). The distribution of fixation durations during reading: Effects of stimulus quality and sentence wrap-up. Poster presented at the 16<sup>th</sup> European Conference on Eye Movements, Marseilles, France.
- (62) \*Reineberg, A. E., **Reichle, E. D.**, Solomon, S. (2011, May). Reminders of death affect metaconsciousness during reading. Poster presented at the 23<sup>rd</sup> Annual Convention of the Association for Psychological Science, Washington, DC, USA.
- (61) Williams, C. A., Pollatsek, A., & **Reichle, E. D.** (2011, May). Examining eye movements in visual search through clusters of objects in a circular array. Poster presented at the 11<sup>th</sup> Annual Meeting of the Vision Sciences Society, Naples, FL, USA.
- (60) Laurent, P. A. & **Reichle, E. D.** (2010, November). The localization of physical and cognitive reinforcement signals in the striatum. Paper presented at the Annual Meeting of the Society for Neuroscience, San Diego, CA, USA.

- (59) \*Liu, Y. & **Reichle, E. D.** (2010, August). The emergence of adaptive eye movements in reading. Paper presented at the Annual Meeting of the Cognitive Science Society, Portland, OR, USA.
- (58) **Reichle, E. D.** (2010, May). The emergence of adaptive eye movements in reading. Paper presented at the 4<sup>th</sup> China International Conference on Eye Movements, Tianjin, China.
- (57) **Reichle, E. D.**, \*Reineberg, A. E., & Schooler, J. W. (2009, November). Eye movements during mindless reading. Paper presented at the 50<sup>th</sup> Annual Meeting of the Psychonomic Society, Boston, MA, USA.
- (56) \*Vanyukov, P. M., Warren, T., & **Reichle, E. D.** (2009, November). Searching for O: Evidence for cognitive control in eye-movement behavior. Poster presented at the 50<sup>th</sup> Annual Meeting of the Psychonomic Society, Boston, MA, USA.
- (55) \*Laurent, P. A. & **Reichle, E. D.** (2009, August). Evaluating reinforcement learning of hand movements, eye movements, and covert shifts of attention in humans: A model-based fMRI study. Paper presented at the 15<sup>th</sup> European Conference on Eye Movements, Southampton, UK.
- (54) \*Laurent, P. A. & **Reichle, E. D.** (2009, August). Using reinforcement learning to examine word-based parsing strategies in the reading of Chinese. Paper presented at the 15<sup>th</sup> European Conference on Eye Movements, Southampton, UK.
- (53) \*Patson, N. D., Warren, T., & **Reichle, E. D.** (2009, August). Lexical and post-lexical complexity effects on eye movements in reading. Poster presented at the 15<sup>th</sup> European Conference on Eye Movements, Southampton, UK.
- (52) **Reichle, E. D.** & Warren, T. (2009, August). Modeling the interface between higher-level language processing and eye-movement control in reading. Paper presented in E. D. Reichle & T. Warren (Chairs), *Higher order influences on reading?* Symposium conducted at the 15<sup>th</sup> European Conference on Eye Movements, Southampton, UK.
- (51) \*Vanyukov, P. M., **Reichle, E. D.**, Warren, T., & \*Degani, T. (2009, August). Examining attention allocation in gaze-contingent visual search tasks using diffusion models. Paper presented at the 15<sup>th</sup> European Conference on Eye Movements, Southampton, UK.
- (50) Warren, T., **Reichle, E. D.**, & White, S. J. (2009, August). Wrap-up effects in reading: Evaluating E-Z Reader 10. Paper presented in E. D. Reichle & T. Warren (Chairs), *Higher order influences on reading?* Symposium conducted at the 15<sup>th</sup> European Conference on Eye Movements, Southampton, UK.
- (49) White, S. J., Warren, T., & **Reichle, E. D.** (2009, August). Effects of sentence position on parafoveal preview. Poster presented at the 15<sup>th</sup> European Conference on Eye Movements, Southampton, UK.
- (48) **Reichle, E. D.** (2009, April). Eye movements in reading: A functional role for split-foveal processing? Paper presented in T. Jordan & K. B. Paterson (Chairs), *Is there a role for split fovea processing in word recognition and reading?* Symposium conducted at the Meeting of the Experimental Psychology Society, Leicester, UK.

- (47) **Reichle, E. D.**, \*Reineberg, A. E., & Schooler, J. W. (2009, March). An eye-movement study of mindless reading. Paper presented in K. Arrington (Chair), *Where cognitive flexibility meets mind wandering*. Symposium conducted at the Annual Meeting of the Eastern Psychological Association, Pittsburgh, PA, USA.
- (46) \*Laurent, P. A., **Reichle, E. D.**, & Fiez, J. A. (2008, November). Does parallel anatomy translate to parallel computation in the basal ganglia? Poster presented at the Annual Meeting of the Society for Neuroscience, Washington, DC, USA.
- (45) Warren, T., \*Patson, N. D., \*Laurent, P. A., & **Reichle, E. D.** (2008, November). Revisiting length and predictability effects on eye movements in reading. Poster presented at the 49<sup>th</sup> Annual Meeting of the Psychonomic Society, Chicago, IL, USA.
- (44) \*Vanyukov, P. M., \*Degani, T., Warren, T., & **Reichle, E. D.** (2008, November). Examining attention allocation in visual search tasks. Poster presented at the 49<sup>th</sup> Annual Meeting of the Psychonomic Society, Chicago, IL, USA.
- (43) **Reichle, E. D.** & Warren, T. (2008, June). Computational models of reading: Linking eye movements to sentence processing. Paper presented at the Third China International Conference on Eye Movement Studies, Zhuhai, China.
- (42) **Reichle, E. D.** (2008, March). Computational models of reading: Linking eye movements to sentence processing. Keynote paper presented at the CUNY Conference on Human Sentence Processing, Chapel Hill, NC, USA.
- (41) Warren, T., White, S., & **Reichle, E. D.** (2008, March). Evidence for pausing, not wrap-up, effects in reading and implications for E-Z Reader 10. Poster presented at the CUNY Conference on Human Sentence Processing, Chapel Hill, NC, USA.
- (40) \*Laurent, P. A. & **Reichle, E. D.** (2007, August). Serial or parallel? Using reinforcement learning to examine attention allocation during reading. Paper presented at the 14<sup>th</sup> European Conference on Eye Movements, Potsdam, Germany.
- (39) **Reichle, E. D.**, Pollatsek, A., Juhasz, B. J., & Rayner, K. (2007, August). Higher-level language processing during reading: Using the E-Z Reader model to examine post-lexical integration. Paper presented at the 14<sup>th</sup> European Conference on Eye Movements, Potsdam, Germany.
- (38) \*Vanyukov, P. M., **Reichle, E. D.**, \*Laurent, P. A., \*Morales, F. J., & Warren, T. (2007, August). Serial or parallel? Using depth of processing to examine attention allocation during reading. Poster presented at the 14<sup>th</sup> European Conference on Eye Movements, Potsdam, Germany.
- (37) Warren, T., \*McConnell, K., & **Reichle, E. D.** (2007, August). Factors influencing effects of implausibility on eye movements during reading: Empirical results and implications for the E-Z Reader model. Paper presented at the 14<sup>th</sup> European Conference on Eye Movements, Potsdam, Germany.
- (36) White, S. J., Warren, T., & **Reichle, E. D.** (2007, August). Sentence wrap-up and parafoveal processing of sentence-initial words. Paper presented at the 14<sup>th</sup> European Conference on Eye Movements, Potsdam, Germany.
- (35) **Reichle, E. D.** (2007, July). The E-Z Reader model of eye-movement control during reading: Models and data. Paper presented in S. Liversedge (Chair), *Eye movements in*

*reading and scene perception*. Symposium conducted at the Joint Meeting of the Society of the Experimental Psychology Society and the Psychonomic Society, Edinburgh, UK.

- (34) \*Laurent, P. A. & **Reichle, E. D.** (2006, September). Using reinforcement-learning agents to examine the allocation of attention during reading. Poster presented at 12<sup>th</sup> Annual Conference on Architectures and Mechanisms for Language Processing, Nijmegen, Netherlands.
- (33) \*Nelson, J. R., Perfetti, C. A., & **Reichle, E. D.** (2006, June). Orthography and decisions about when to move the eyes during reading. Paper presented in P. Reitsma (Chair), *Orthographic learning*. Symposium conducted at the 13<sup>th</sup> Annual Meeting of the Society for the Scientific Study of Reading, Vancouver, Canada.
- (32) **Reichle, E. D.** & \*Laurent, P. A. (2006, June). Using reinforcement learning to examine eye-movement control during reading. Paper presented at the European Collaborative Research Project, Potsdam, Germany.
- (31) **Reichle, E. D.** , Tokowicz, N., Liu, Y., & Perfetti, C. A. (2006, June). Using ERP to examine when the eyes move during reading. Paper presented in F. Hutzler & R. Radach (Chairs), *Spatial-temporal dynamics of information processing during reading*. Symposium conducted at the 13<sup>th</sup> Annual Meeting of the Society for the Scientific Study of Reading, Vancouver, Canada.
- (30) Schooler, J. W., Smallwood, J., McSpadden, M., \*Halpern, D. V., & **Reichle, E. D.** (2006, June). Mind wandering during reading: An under appreciated source of comprehension failure. Paper presented at the 18<sup>th</sup> Annual Convention of the Association for Psychological Science, New York, NY, USA.
- (29) \*Nelson, J. R., **Reichle, E. D.**, & Perfetti, C. A. (November, 2005). Components of word familiarity: Orthography controls eye movements during reading. Poster presented at the 46<sup>th</sup> Annual Meeting of the Psychonomic Society, Toronto, Canada.
- (28) Schooler, J. W., Smallwood, J., McSpadden, M., \*Halpern, D. V., & **Reichle, E. D.** (November, 2005). Zoning out during reading: An under appreciated source of comprehension failure. Paper presented at the 46<sup>th</sup> Annual Meeting of the Psychonomic Society, Toronto, Canada.
- (27) **Reichle, E. D.** & \*Laurent, P. A. (August, 2005). Using reinforcement learning to understand the emergence of “intelligent” eye-movement control during reading. Paper to be presented at the 13<sup>th</sup> European Conference on Eye Movements, Bern, Switzerland.
- (26) **Reichle, E. D.**, Tokowicz, N., Liu, Y., & Perfetti, C. A. (August, 2005). Using ERP to examine the “eye-mind” link during reading. Paper to be presented at the 13<sup>th</sup> European Conference on Eye Movements, Bern, Switzerland.
- (25) **Reichle, E. D.**, \*Landi, N., & Perfetti, C. A. (November, 2004). Emerging morpheme knowledge: Implications for reading skill. Paper presented at the 55<sup>th</sup> Annual Meeting of the International Dyslexia Association, Philadelphia, PA, USA.
- (24) **Reichle, E. D.** & \*Laurent, P. A. (September, 2004). The emergence of “intelligent” eye-movement control during reading: A computational account. Poster presented at

- 10<sup>th</sup> Annual Conference on Architectures and Mechanisms for Language Processing 2004, Aix-en-Provence, France.
- (23) \*Kim, S. Y., \*Morales, F. J., & **Reichle, E. D.** (August, 2004). Exploring the bases of causal inferences. Poster presented at the 26<sup>th</sup> Annual Meeting of the Cognitive Science Society, Chicago, IL, USA.
- (22) **Reichle, E. D.** & Schooler, J. W. (August, 2004). Lapses in meta-cognition during reading. Paper presented at the 14<sup>th</sup> Annual Meeting for the Society for Text and Discourse, Chicago, IL, USA.
- (21) \*Costello, M. C. & **Reichle, E. D.** (July, 2004). LSDNet: A neural network for multisensory perception. Poster presented at the 6<sup>th</sup> International Conference on Cognitive Modeling, Pittsburgh, PA, USA.
- (20) **Reichle, E. D.** (July, 2004). An overview of the E-Z Reader model: Comparisons to other models of eye-movement control. Paper presented at the 6<sup>th</sup> International Conference on Cognitive Modeling, Pittsburgh, PA, USA.
- (19) \*Nelson, J. R., **Reichle, E. D.**, & Perfetti, C. A. (2004, June). Components of word familiarity. Paper presented in F. Hutzler (Chair), *Eye movements and reading*. Symposium conducted at the 11<sup>th</sup> Annual Meeting of the Society for the Scientific Study of Reading, Amsterdam, Netherlands.
- (18) **Reichle, E. D.**, Tokowicz, N., & Perfetti, C. A. (2004, June). Using ERP to examine eye-movement control during reading. Paper presented in F. Hutzler (Chair), *Eye movements and reading*. Symposium conducted at the Eleventh Annual Meeting of the Society for the Scientific Study of Reading, Amsterdam, Netherlands.
- (17) **Reichle, E. D.**, Pollatsek, A., & Rayner, K. (2004, May). Eye-movement control during reading: New simulations to evaluate core assumptions of the E-Z Reader model. Paper presented at the 6<sup>th</sup> European Workshop on Language Comprehension, Oléron, France.
- (16) Rayner, K., **Reichle, E. D.**, & Pollatsek, A. (2004, February). The E-Z Reader model of eye movement control in reading: Recent experiments and new simulations. Paper presented at the 33<sup>rd</sup> Conference on Perception and Cognition, Niagara Falls, Canada.
- (15) **Reichle, E. D.**, Rayner, K., & Pollatsek, A. (2003, August). Modeling eye movements in reading: Serial vs. parallel processing of words. Paper presented at the 12<sup>th</sup> European Conference on Eye Movements, Dundee, UK.
- (14) **Reichle, E. D.** & Mason, R. A. (2003, June). A computational account of neural signatures. Paper presented at the International Hanse-Conference on Higher Level Language Processes in the Brain: Inference and Comprehension Processes, Delmenhorst, Germany.
- (13) **Reichle, E. D.** (2002, September). E-Z Reader 7: Fleshing out a functional model with biological constraints. Paper presented at the Annual Retreat of the Center for the Neural Basis of Cognition, Seven Springs, PA, USA.
- (12) Perfetti, C. A., \*Hart, L. A., & **Reichle, E. D.** (2001, November). Lexical quality and reading skill. Paper presented at the 42<sup>nd</sup> Annual Meeting of the Psychonomic Society, Orlando, FL, USA.



- (11) Schooler, J. W., **Reichle, E. D.**, & \*Halpern, D. V. (2001, November). "Zoning out" during reading: Evidence for dissociations between experience and meta-awareness. Paper presented at the 42<sup>nd</sup> Annual Meeting of the Psychonomic Society, Orlando, FL, USA.
- (10) **Reichle, E. D.** & Perfetti, C. A. (2001, June). Modeling lexical constituent availability during visual word identification. Poster presented at the Annual Meeting of the Society for the Scientific Study of Reading, Boulder, CO, USA.
- (9) **Reichle, E. D.** (2000, November). A reconstructive theory of serial-order memory. Paper presented at the 41<sup>st</sup> Annual Meeting of the Psychonomic Society, New Orleans, LO, USA.
- (8) **Reichle, E. D.**, Just, M. A., & Carpenter, P. A. (2000, April). Cognitive workload and cortical activation in problem solving. Poster presented at the 7<sup>th</sup> Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA, USA.
- (7) **Reichle, E. D.**, Carpenter, P. A., & Just, M. A. (1999, November). The cortical bases of strategy and skill in sentence-picture verification. Poster presented at the 40<sup>th</sup> Annual Meeting of the Psychonomic Society, Los Angeles, CA, USA.
- (6) **Reichle, E. D.**, Carpenter, P. A., & Just, M. A. (1998, June). The cortical systems mediating two sentence-picture verification strategies. Poster presented at the 4<sup>th</sup> International Conference on Functional Mapping of the Human Brain, Montreal, Canada.
- (5) Rayner, K., Pollatsek, A., & **Reichle, E. D.** (1998, April). Eye movement control in reading: Modeling and data. Paper presented at the 5<sup>th</sup> European Workshop on Language Comprehension, Luminy, France.
- (4) **Reichle, E. D.**, Pollatsek, A., Fisher, D. L., & Rayner, K. (1996, August). A model of eye movements in reading. Paper presented at the 29<sup>th</sup> Annual Meeting of the Society of Mathematical Psychology, Chapel Hill, NC, USA.
- (3) Jones, C. M. & **Reichle, E. D.** (1995, November). An exemplar based model of spatial inferences. Poster presented at the 36<sup>th</sup> Annual Meeting of the Psychonomic Society, Los Angeles, CA, USA.
- (2) **Reichle, E. D.**, Pollatsek, A., Fisher, D. L., & Rayner, K. (1995, November). Toward a model of eye movements in reading. Paper presented at the 36<sup>th</sup> Annual Meeting of the Psychonomic Society, Los Angeles, CA, USA.
- (1) **Reichle, E. D.** & Dark, V. J. (1990, May). Semantic priming does not require a deep level of processing. Paper presented at the Midwestern Psychological Association Convention, Chicago, IL, USA.

### INVITED COLLOQUIA

- Bournemouth University, Bournemouth, UK
- Florida State University, Tallahassee, FL, USA
- Gettysburg College, Gettysburg, PA, USA
- Hanse-Wissenschaftskolleg, Delmenhorst, Germany
- Institute of Psychology, Chinese Academy of Sciences, Beijing, China (× 2)
- Kent State University, Kent, OH, USA

- Macquarie University, Sydney, Australia
- Max Planck Institut für Psycholinguistik, Neijmegen, Netherlands
- Michigan State University, East Lansing, MI, USA
- Pennsylvania State University, State College, PA, USA
- Poznan University of Technology, Poznan, Poland
- Sun Yat-Sen University, Zhouhai, China (× 2)
- Tianjin Normal University, Tianjin, China
- Universität Potsdam, Potsdam, Germany
- University of Dundee, Dundee, UK
- University of Edinburgh, Edinburgh, UK
- University of Exeter, Exeter, UK
- University of Glasgow, Glasgow, UK
- University of Grenoble, Grenoble, France
- University of Leicester, Leicester, UK (× 2)
- University of North Carolina at Chapel Hill, Chapel Hill, NC, USA
- University of Oregon, Eugene, OR, USA
- University of Oxford, Oxford, UK
- University of Pittsburgh, Pittsburgh, PA, USA
- University of Southampton, Southampton, UK (× 4, Leverhulme lecture series)
- University of Sydney, Sydney, Australia
- University of Wollongong, Wollongong, Australia

### **INVITED WORKSHOPS**

- Arizona State University, Tempe, AZ, USA (2-day cognitive modeling workshop)
- City University of Hong Kong, Hong Kong, China (2-day seminar on reading research)
- Sun Yat-Sen University, Guangzhou, China (2-day cognitive modeling workshop)
- University of Dundee, Dundee, UK (2-day cognitive modeling workshop)
- University of Southampton, Southampton (2-day cognitive modeling workshop)

### **TEACHING EXPERIENCE**

Instructor:

- *Cognitive Psychology*, University of Massachusetts at Amherst, University of Pittsburgh
- *Graduate Seminar: Computational Modeling*, University of Pittsburgh, University of Southampton
- *Graduate Seminar: Neuroscience Journal Club*, University of Pittsburgh
- *Graduate Statistics*, University of Pittsburgh
- *Honors Cognitive Psychology*, University of Massachusetts at Amherst
- *Language & Memory*, University of Southampton
- *Research Methods*, University of Pittsburgh

Guest Lecturer:

- *Graduate Seminar: Memory*, University of Pittsburgh, lecture: Memory Models
- *Graduate Research Methods*, University of Pittsburgh, lectures: (1) Eye-Tracking Methods; (2) Computational Modeling; (3) Advanced Statistical Methods
- *Undergraduate Seminar: Cognitive Processes II*, Macquarie University, lecture: Reading in Humans and Machines
- *Undergraduate Seminar: Eye Movements and Visual Cognition*, University of

Southampton, lecture: Modeling Eye-Movement Control in Reading

### EXTERNAL GRANT SUPPORT

- Australian Research Council, Australia (DP190100719) 2019-2021  
*Tracking towards a complete model of skilled reading comprehension*  
Projected total costs: £366,513  
Project role: Chief Investigator (Andrews, S. J., Chief Investigator; Drieghe, D., Partner Investigator)
- Economic and Social Research Council, UK 2018-2020  
*Revealing the Implications of Reading Strategy for Reading Behavior and Comprehension*  
Projected total costs: £387,136  
Project role: Co-I (White, S. J., PI; Paterson, K., Co-I)
- National Institute of Health, USA (RO1HD075800) 2013-2018  
*Cognitive Load in the Bilingual Brain: Insights from Disengaged Reading*  
Projected total costs: \$3,194,540  
Project role: PI University of Southampton Consortium (Goldinger, S. D., PI; Papesch, M. H., PI Louisiana State University Consortium; Tokowicz, N., PI University of Pittsburgh Consortium)
- National Institute of Health, USA (RO1HD053639) 2007-2012  
*Eye Movement Control: Coordinating Perception, Cognition, and Action in Reading*  
Projected total costs: \$1,125,000 (\$1,069,406 direct costs; \$455,954 indirect costs)  
Project role: PI (Warren, T., Co-PI)
- Institute of Education Sciences, USA (R305H030235) 2002-2005  
*Lapses in Meta-Cognition During Reading: Understanding Comprehension Failure*  
Total costs: \$690,658 (\$490,604 direct costs; \$199,964 indirect costs)  
Project role: PI (Schooler, J. W., Co-PI)
- Institute of Educational Sciences, USA (R305G020006) 2001-2004  
*Learning Words: Antecedents and Consequences of Word Knowledge*  
Total costs: \$609,996 (\$431,152 direct costs; \$178,844 indirect costs)  
Project role: Co-PI (Perfetti, C. A., PI; Beck, I. L., Co-PI; McKeown, M. G., Co-PI)
- Alexander von Humboldt Foundation: Trans-Coop Program, Germany 2002-2005  
*Towards a Unified Theory of Inferencing: Relating On- and Off-Line Measures of Text Comprehension to the Foundational Theoretical Positions of the Field as Well as to Each Other*  
Total costs: \$37,790  
Project role: Co-PI (Schmalhofer, F., PI; Perfetti, C. A., Co-PI; Griego, J., Co-PI)

### INTERNAL GRANT SUPPORT

- Macquarie University, ARC Legacy Support Scheme, Australia 2019  
*Tracking and modeling the acquisition of morphological knowledge when learning to read novel words*  
Projected total costs: \$14,412 AUD  
Project role: Co-PI (Beyersmann, L., PI; Castles, A., Co-PI)

- Macquarie University, Faculty Research Infrastructure Fund, Australia 2018  
*FHS Eye-Tracking Facilities*  
Projected total costs: \$144,786 AUD  
Project role: PI (Kruger, J.-L., Co-PI; McArthur, G., Co-PI; Ryan, M., Co-PI; Wiggins, M., Co-PI)
- Macquarie University, Strategic Priority Grants Scheme, Australia 2018  
*Student engagement in online learning – Psychology via OUA*  
Projected total costs: \$150,000 AUD  
Project role: Co-PI (Beath, A., PI; Irwin, J., Co-PI)
- Zayed University, Research Incentive Fund (RIF), UAE 2017-2019  
*An Eye-Tracking and Computational Modeling Investigation of Arabic Word Identification and Sentence Reading*  
Projected total costs: \$41,000  
Project role: Co-PI (Hermena, E. W., PI; Jordan, T. R., Co-PI; Sheen, M., Co-PI)
- Strategic Interdisciplinary Research Development Fund (SIRDF), UK 2014-2015  
*The “Modeling Our World” Seminar Series*  
Total costs: £10,000  
Project title: PI (Glautier, S. P., Co-PI; Niblo, G. A., Co-PI; Pitarakis, J.-Y., Co-PI)
- Pittsburgh Science of Learning Center, USA 2006-2007  
*A Word-Experience Model of Chinese Character Learning*  
Projected total costs: \$46,830 (\$34,629 direct costs; \$12,202 indirect costs)  
Project role: PI (Perfetti, C. A., Co-PI; Liu, Y., Co-PI)

## SERVICE

### Editorial:

- Editorial Board, *Journal of Eye Movement Research*: 2011-present
- Editorial Board, Cognitive Science of Language section of *Language and Linguistics Compass*: 2015-present
- Editorial Board, *Psychological Review*: 2004-2009, 2010-2015
- Editorial Board, *Visual Cognition*: 2005-2011, 2012-present
- Guest Editor, *Cognitive Systems Research*: 2006 special issue on computational models of eye-movement control during reading
- Guest Associate Editor, *Quarterly Journal of Experimental Psychology*: 2017 special issue in honor of Keith Rayner
- Ad hoc reviewer for the following journals: (1) *Acta Psychologica*; (2) *Applied Cognitive Psychology*; (3) *Attention, Perception, & Psychophysics*; (4) *Behavior Research Method*; (5) *Canadian Journal of Experimental Psychology*; (6) *Cerebral Cortex*; (7) *Child Development*; (8) *Cognition*; (9) *Cognitive, Affective, and Behavioral Neuroscience*; (10) *Cognitive Psychology*; (11) *Cognitive Science*; (12) *Consciousness and Cognition*; (13) *Current Directions in Psychological Science*; (14) *Emotion*; (15) *Human Factors*; (16) *Language and Linguistics Compass*; (17) *Language, Cognition and Neuroscience*; (18) *Journal of Cognitive Neuroscience*; (19) *Journal of Cognitive Psychology*; (20) *Journal of Cognitive Science*; (21) *Journal of Experimental Psychology: Human Perception and Performance*; (22) *Journal of Experimental Psychology: Learning, Memory, and Cognition*; (23) *Journal of Eye Movement Research*; (24) *Journal of Neuroscience, Psychology, and Economics*; (25) *Journal of Vision*; (26) *Memory & Cognition*; (27) *Neuropsychologia*; (28) *Neuropsychology*; (29) *Perception &*

*Psychophysics*; (30) *PLOS ONE*; (31) *Proceedings of the National Academy of Sciences*; (32) *Psychological Science*; (33) *Psychology and Aging*; (34) *Psychonomic Bulletin & Review*; (35) *Psychophysiology*; (36) *Quarterly Journal of Experimental Psychology*; (37) *Science*; (38) *Vision Research*; and (39) *Visual Cognition*

Other Misc. Professional:

- Program committee, 6<sup>th</sup> International Conference on Cognitive Modeling, Pittsburgh, PA, USA
- Reviewer, Institute of Education Sciences (full proposal review panel): 2005, 2007
- Scientific Advisory Board, 16<sup>th</sup> European Conference on Eye Movements, Marseilles, France
- Symposium organizer and chair, *The cognitive architecture of reading*, 26<sup>th</sup> Annual Meeting of the Society for the Scientific Study of Reading, Toronto, Canada
- Symposium organizer and co-chair, *Higher order influences on reading*, 15<sup>th</sup> European Conference on Eye Movements, Southampton, UK
- Symposium organizer and chair, *Models of eye-movement control during reading*, 6<sup>th</sup> International Conference on Cognitive Modeling, Pittsburgh, PA, USA
- Symposium organizer and chair, *Models of eye-movement control during reading*, 12<sup>th</sup> European Conference on Eye Movements, Dundee, UK

University of Pittsburgh Community:

- CNBC - Annual Retreat Co-Organizer: 2002
- CNBC - Education Committee: 2001-2002, 2002-2003, 2003-2004
- CNBC - Executive Committee: 2001-2002, 2002-2003, 2003-2004
- Cognitive Program - Chair: 2008-2009
- Cognitive Program - Graduate Admissions Committee: 2003-2004, 2004-2005
- Cognitive Program - Graduate Curriculum Committee: 2005-2006 (chair), 2006-2007
- LRDC - Computer Services Committee: 2001-2002
- LRDC - Technology Committee Faculty Liaison: 2011-2013
- LRDC / Education - Senior Reading Faculty Search Committee: 2006-2007
- LRDC / Psychology - High-Level Cognition Faculty Search Committee: 2010-2011
- LRDC / Psychology - Reading/Language Faculty Search Committee (chair): 2003-2004
- LRDC / Psychology - Senior Reading/Language Faculty Search Committee: 2001-2002
- LRDC / Psychology / C.N.B.C. - Cognitive-Neuroscience Faculty Search Committee: 2001-2002, 2002-2003, 2003-2004
- Psychology - Colloquium Committee: 2011-2012
- Psychology - Executive Committee: 2008-2009
- Psychology - Graduate Education Committee: 2008-2009
- Psychology - Quantitative/Statistics Faculty Search Committee: 2003-2004
- Psychology - Representative, University of Pittsburgh Applied Statistics Education Committee: 2001-2002
- Psychology - Space Committee: 2005-2007
- Psychology - Website Committee: 2005-2007
- Psychology - Director of *Tim Post Award for Research Excellence*, 2005-2011
- University of Pittsburgh - Competitive Medical Research Fund, Reviewer, 2007

University of Southampton Community:

- Center for Vision and Cognition - Co-Director: 2015
- Psychology - Athena SWAN Committee on Equity: 2015-2016
- Psychology - Chair, Search Committee for Head of School of Psychology: 2015

- Psychology - Post-Graduate Training Coordinator: 2013-2015
- Psychology - Research Ethics Committee: 2017
- Psychology - Well-being Implementation Team: 2017
- University of Southampton - “Modeling Our World” seminar series steering committee: 2014-2016
- University of Southampton - Staff-Engagement Committee: 2017

Macquarie University Community:

- Faculty of Human Sciences Internationalization Committee: 2018-present

## POST-DOCTORATE MENTORING

- Tomek Loboda, PhD, 2013-2018
- Heather Sheridan, PhD, 2013-2015

## GRADUATE STUDENT MENTORING

University of Pittsburgh:

- Michal Balass, PhD - cognitive psychology (committee member)
- Donald Bolger, PhD - cognitive psychology (committee member)
- Karin Cox, PhD - cognitive psychology (committee member)
- Trinity Crapse, PhD - neuroscience (committee member)
- Tamar Degani, PhD - cognitive psychology (committee member)
- Susan Dunlap, PhD - cognitive psychology (committee member)
- Rhiannon Ellis, PhD - cognitive psychology (committee member)
- Charles Grier, PhD - cognitive psychology (committee member)
- Sara Guediche, PhD - neuroscience (committee member)
- David Halpern, MS - cognitive psychology (committee member)
- Anthony Harrison, PhD - cognitive psychology (committee member)
- Lesley Hart, PhD - cognitive psychology (committee member)
- Say Young Kim, MS - cognitive psychology (**advisor**)
- Nicole Landi, PhD - cognitive psychology (committee member, IGERT **co-advisor**)
- Patryk Laurent, PhD - neuroscience (**advisor**)
- Tomek Loboda, PhD - information sciences (**co-advisor**)
- Katherine Martin, MA - linguistics (committee member)
- Kerry McConnell, MS - cognitive psychology (**co-advisor**)
- Jessica Nelson, PhD - cognitive psychology (committee member)
- Amy Overman, PhD - cognitive psychology (committee member)
- Nikole Patson-Huffman, PhD - cognitive psychology (committee member)
- Elisabeth Ploram, PhD - cognitive psychology (committee member)
- Suzy Sherf, PhD - developmental psychology (committee member)
- Leida Tolentino, PhD - cognitive psychology (committee member)
- Elizabeth Tricomi, PhD - cognitive psychology (committee member)
- Julie Van Dyke, PhD - cognitive psychology (committee member)
- Steve Wilson, PhD - clinical psychology (committee member)

University of Southampton:

- Sheenie Au-Yeung, PhD - cognitive psychology (viva internal examiner)
- Nicholas Hedger, PhD - cognitive psychology (viva internal examiner)
- Carl Mann - cognitive psychology (viva internal examiner)

- Caspian (Imogen) Priest – MSc (2016) (**co-advisor**)

Macquarie University:

- Sixin Liao - linguistics (**co-advisor**)
- Diane Mézière - cognitive science (**co-advisor**)
- Myriam Pitre - psychology (**co-advisor**)

Other Misc. Universities:

- Mackenzie Glaholt, PhD - cognitive psychology, University of Toronto, Canada (external committee member)
- Michael Hout, PhD - cognitive psychology, Arizona State University, AZ, USA (external committee member)
- Yanping Liu, PhD - cognitive psychology, Sun Yat-Sen University, China (fellowship **advisor**, **co-advisor**)
- Lyuba Mancheva, PhD - cognitive science, University of Grenoble, France (research **supervisor**, external committee member)
- Megan Papesh, PhD - cognitive psychology, Arizona State University, AZ, USA (external committee member)
- Calen Walshe, PhD - cognitive psychology, University of Edinburgh, UK (viva external examiner)

## **UNDERGRADUATE STUDENT MENTORING**

University of Pittsburgh:

- Charles Blake - Psychology Honor's Thesis (2003) (committee member)
- Rajiv Desai - directed research (2002)
- Adrienne DiFonso - directed research (2009)
- Stephen Gonzalez - undergraduate teaching assistant (2007)
- Amanda Good - Psychology Honor's Thesis (2006) (committee member)
- Michael Hout - undergraduate teaching assistant (2005)
- Samantha Keller - directed research (2003)
- Hetal Kharecha - directed research (2005)
- Stephanie Lamison - internship sponsor (2003)
- Francisco Morales - directed research (2005)
- Alexander Mosby - directed research (2005)
- Marla Nathans - directed research (2004)
- Sarah Orban - directed research (2009); Psychology Honor's Thesis (2010) (**advisor**)
- Alison Perch - directed research (2007)
- Andrew Reineberg - directed research (2008); Psychology Honor's Thesis (2009) (**advisor**)
- Darin Roodman - undergraduate teaching assistant (2004)
- Madeline Root - Psychology Honor's Thesis (2005) (committee member)
- Courtney Smith - undergraduate teaching assistant (2005); Psychology Honor's Thesis (2007) (committee member)
- Charishma Soni - undergraduate teaching assistant (2011)
- Carrie Theisen - Psychology Honor's Thesis (2002) (committee member)
- Karl Wahlen - undergraduate teaching assistant (2012)
- Stephen Walenchok - directed research (2009); Psychology Honor's Thesis (2010) (**advisor**)
- Brett Wiewiora - Psychology Honor's Thesis (2005) (**advisor**)

University of Southampton:

- Joshua Ali - BSc Honors (2015) (**advisor**)
- Nicola Baker - BSc Honors (2016) (**advisor**)
- Joshua Bradley - BSc Honors (2015) (**advisor**)
- Rachel Frimpong-Santeng - BSc Honors (2016) (**advisor**)
- Luca Kiss (2017) - BSc (**advisor**)
- Laura Martinez - BSc Honors (2015) (**advisor**)
- Mitchell Parsons - BSc Honors (2015) (**advisor**)
- Caspian (Imogen) Priest - BSc Honors (2014) (**co-advisor**)
- Alex Rose (2016/2017) (**advisor**)
- Andy Sudgen - BSc Honors (2015) (**advisor**)
- Lucy Sykes - BSc Honors (2015) (**advisor**)
- Jakub Trzcinski - BSc Honors (2014) (**advisor**)

Macquarie University:

- Eduardo Conception - BS Honors (2019) (**advisor**)
- Isabella Rossettin - BS Honors (2018) (**advisor**)