

## CURRICULUM VITAE

# Erik D. Reichle

23 February 2023

### CONTACT INFORMATION

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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 of Cognitive Psychology, Macquarie University, Sydney, Australia, 2017-present
- Head of School, School of Psychological Sciences, Macquarie University, Sydney, Australia, 2021-2022
- Head of Department, Department of Psychology, Macquarie University, Sydney, Australia, 2017-2021
- Head of Department, 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) cognitive architecture; (3) computer/mathematical models; (4) episodic long-term memory; (5) eye-movement control; (6) reading; (7) word identification
- *Teaching*: (1) cognitive psychology; (2) computational modeling; (3) psychology of reading; (4) research methods; (5) statistics

## PROFESSIONAL AFFILIATIONS

- Association for Reading and Writing in Asia (ARWA), Member
- Cognitive Science Society, Member
- Psychonomic Society, Fellow
- Society for the Scientific Study of Reading (SSSR), Member

## HONORS & FELLOWSHIPS

- Sigma Xi Scientific Research Honor Society, 2021
- 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

- (2) **Reichle, E. D.** & Yu, L. (2023). *The psychology of reading: Insights from Chinese*. Cambridge, UK: Cambridge University Press. Manuscript in press.
- (1) **Reichle, E. D.** (2021). *Computational models of reading: A handbook*. Oxford, UK: Oxford University Press.

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

- (87) \*Liao, S., Kruger, J.-L., Yu, L., & **Reichle, E. D.** (2023). Dynamic reading in the digital age: New insights on cognition. Manuscript in preparation.
- (86) \*Liao, S., Kruger, J.-L., Yu, L., & **Reichle, E. D.** (2023). The influence of subtitle-video congruency on subtitle reading: Evidence from eye movements. Manuscript submitted for review.
- (85) Liu, Y., Yu, L., & **Reichle, E. D.** (2023). Towards a model of eye-movement control in Chinese reading. Manuscript submitted for review.
- (84) Mei, X., Liu, Y., & **Reichle, E. D.** (2023). Is there concurrent lexical processing of multiple words? Manuscript submitted for review.
- (83) \*Mézière, D., Yu, L., McArthur, G., **Reichle, E. D.**, & von der Malsburg, T. (2023). Scanpath regularity as an index of reading comprehension. Manuscript invited for resubmission.

- (82) Warrington, K., Wu, S., **Reichle, E. D.**, Sheridan, H., Paterson, K. B., & White, S. J. (2023). Eye movements during reading and skimming: Effects of word length and frequency. Manuscript in preparation.
- (81) \*Xia, X., \*Liu, Q, **Reichle, E. D.**, & Liu, Y. (2023). Are there preferred viewing locations in the reading of Chinese? An experiment and simulations investigating the Landolt-C pseudo-reading task. Manuscript submitted for review.
- (80) \*Mézière, D., Yu, L., **Reichle, E. D.**, von der Malsburg, T., & McArthur, G. (2023). Using eye-tracking to predict reading comprehension. *Reading Research Quarterly*. Manuscript in press.
- (79) Veldre, A., **Reichle, E. D.**, Yu, L., & Andrews, S. (2023). Lexical processing across the visual field. *Journal of Experimental Psychology: Human Perception and Performance*. Manuscript in press.
- (78) Wegener, S., Wang, H.-C., Beyersmann, E., **Reichle, E. D.**, Nation, K., & Castles, A. (2023). The effect of spacing versus massing on orthographic learning. *Reading Research Quarterly*. Manuscript in press.
- (77) Andrews, S., Veldre, A., \*Wong, R., Yu, L., & **Reichle, E. D.** (2023). How do task demands and aging affect lexical prediction during online reading of natural texts? *Journal of Experimental Psychology: Learning, Memory, and Cognition*. Manuscript in press.
- (76) Nalepka, P., \*Prants, M., \*Stening, H., \*Simpson, J., Kallen, R. W., Dras, M., **Reichle, E. D.**, Hosking, S. G., Best, C., & Richardson, M. J. (2022). Assessing team situational awareness by how players structure their search in a first-person multiplayer video game. *Cognitive Science*. Manuscript in press.
- (75) \*Simpson, J., Nalepka, P., Kallen, R. W., Dras, M., **Reichle, E. D.**, Hosking, S. G., Best, C., Richards, D., & Richardson, M. J. (2022). Conversation dynamics in a multiplayer video game with knowledge asymmetry. *Frontiers in Psychology*. Manuscript in press.
- (74) Veldre, A., **Reichle, E. D.**, Yu, L., & Andrews, S. (2022). Understanding the visual constraints on lexical processing: New empirical and simulation results. *Journal of Experimental Psychology: General*. Manuscript in press.
- (73) Xiong, J., Yu, L., Veldre, A., **Reichle, E. D.**, & Andrews, S. (2022). A multi-task comparison of word- and character-frequency effects in Chinese reading. *Journal of Experimental Psychology: Learning, Memory, and Cognition*. Manuscript in press.
- (72) \*Liao, S., Yu, L., Kruger, J.-L., & **Reichle, E. D.** (2022). The impact of audio on the reading of intralingual versus interlingual subtitles: Evidence from eye movements. *Applied Psycholinguistics*, 43, 237-269.
- (71) \*Xia, X., Liu, Y., Yu, L., & **Reichle, E. D.** (2022). Are there preferred-viewing locations in Chinese reading? Evidence from eye tracking and computer simulations. *Journal of Experimental Psychology: Learning, Memory, and Cognition*. Manuscript in press.
- (70) Yu, L., Liu, Y., & **Reichle, E. D.** (2021). A corpus-based vs. experimental examination of word- and character-frequency effects in Chinese reading: Theoretical implications for models of reading. *Journal of Experimental Psychology: General*, 150, 1612-1641.
- (69) \*Liao, S., Yu, L., **Reichle, E. D.**, & Kruger, J.-L. (2021). Using eye movements to study the reading of subtitles in video. *Scientific Studies of Reading*, 25, 417-435.

- (68) Hermena, E. W. & Reichle, E. D. (2020). Insights from the study of Arabic reading. *Language and Linguistic Compass*, 14, 1-26.
- (67) Veldre, A., Reichle, E. D., \*Wong, R., & Andrews, S. (2020). Contextual plausibility effects on word skipping during reading. *Cognition*, 197, 1-14.
- (66) 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*, 26, 1367-1276.
- (65) Liu, Y., \*Yu, L., & Reichle, E. D. (2019b). The influence of parafoveal preview, character transposition, and word frequency on saccadic targeting in Chinese reading. *Journal of Experimental Psychology: Human Perception and Performance*, 45, 537-552.
- (64) Liu, Y., \*Yu, L., & Reichle, E. D. (2019a). The dynamic adjustment of saccades during reading: Evidence from eye movements and simulations. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 45, 535-543.
- (63) 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*, 45, 544-551.
- (62) Liu, Y. & Reichle, E. D. (2018a). Eye movement evidence for object-based attention in reading. *Psychological Science*, 29, 278-287.
- (61) Liu, Y. & Reichle, E. D. (2018b). Using eye movements to understand the leakage of information during Chinese reading. *Psychonomic Bulletin & Review*, 25, 2323-2329.
- (60) 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, 1981-1899.
- (59) 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.
- (58) Reichle, E. D. & Yu, L. (2018). Models of Chinese reading: Review and analysis. *Cognitive Science*, 42, 1154-1165.
- (57) 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.
- (56) 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.
- (55) 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.
- (54) 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.
- (53) Yu, L. & Reichle, E. D. (2017). Chinese vs. English: Insights on cognition during reading. *Trends in Cognitive Sciences*, 21, 721-724.

- (52) 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.
- (51) Sheridan, H. & **Reichle, E. D.** (2016). An analysis of the time course of lexical processing during reading. *Cognitive Science*, *40*, 522-553.
- (50) 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.
- (49) 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.
- (48) \*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.
- (47) 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.
- (46) **Reichle, E. D.** (2015). Computational models of reading: A primer. *Language and Linguistic Compass*, *9*, 271-284.
- (45) **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.
- (44) \*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.
- (43) Godwin, H. J., **Reichle, E. D.**, & Menneer, T. (2014). Coarse-to-fine eye-movement behavior during visual search. *Psychonomic Bulletin & Review*, *21*, 1244-1249.
- (42) 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.
- (41) 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.
- (40) \*Liu, Y., **Reichle, E. D.**, & Gao, D.-G. (2013). Using reinforcement learning to examine dynamic attention allocation during reading. *Cognitive Science*, *37*, 1507-1540.
- (39) **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.
- (38) **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.
- (37) **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.

- (36) **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.
- (35) **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.
- (34) 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.
- (33) \*Vanyukov, P. M., Warren, T., Wheeler, M. E., & **Reichle, E. D.** (2012). The emergence of frequency effects in eye movements. *Cognition*, *123*, 185-189.
- (32) **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.
- (31) 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.
- (30) 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.
- (29) 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.
- (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). Investigating the causes of wrap-up effects: Evidence from eye movements and E-Z Reader. *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.
- (12) **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, & CONFERENCE PROCEEDINGS (Note: \* student co-authors)**

- (28) Wegener, S., Yu, L., **Reichle, E. D.**, Beyersmann, E., Parrila, R., & Castles, A. (2023). Eye movements during reading. *Frontiers for Young Minds*. Manuscript in press.
- (27) Nalepka, P., \*Stening, H., \*Simpson, J., Kallen, R. W., Dras, M., **Reichle, E. D.**, Hosking, C. B., & Richardson, M. (2022). Gauging situation awareness by the complexity of personnel movement. *Journal of Science and Medicine in Sport, 25*, S16-S17.
- (26) **Reichle, E. D.**, Veldre, A., Yu, L., & Andrews, S. (2022). A neural implementation of MINERVA 2. *Proceedings of the 44<sup>th</sup> Annual Conference of the Cognitive Science Society*. Manuscript in press.
- (25) \*Simpson, J., \*Stening, H., Nalepka, P., Dras, M., **Reichle, E. D.**, Hosking, C. B., Best, C. J., Richards, D., & Richardson, M. (2022). DesertWoZ: A Wizard of Oz environment to support the design of collaborative conversational agents. *CSCW'22 Companion: Companion Publication on Computer Supported Cooperative Work and Social Computing*, 188-192.
- (24) \*Simpson, J., Nalepka, P., \*Crone, C. L., Kallen, R. W., Dras, M., **Reichle, E. D.**, Hosking, S., Best, C., Richards, D., & Richardson, M. J. (2021). Tip of the finger or tip of the tongue? The effects of verbal communication on online multi-player team performance. *CSCW '21: Companion Publication of the 2021 Conference on Computer Supported Cooperative Work and Social Computing* (pp. 175-178).
- (23) \*Pratts, M., \*Simpson, J., Nalepka, P., Kallen, R. W., Dras, M., **Reichle, E. D.**, Hosking, S., Best, C., & Richardson, M. J. (2021). The structure of team search behaviors with varying access to information. *Proceedings of the 43<sup>rd</sup> Annual Conference of the Cognitive Science Society* (pp. 805-811).
- (22) **Reichle, E. D.**, Yu, L., \*Liao, S., & Kruger, J.-L. (2021). Using simulations to understand the reading of rapidly displayed subtitles. *Proceedings of the 43<sup>rd</sup> Annual Conference of the Cognitive Science Society* (pp. 445-451).
- (21) **Reichle, E. D.** & Schotter, E. R. (2020). A computational analysis of the constraints on parallel word identification. *Proceedings of the 42<sup>nd</sup> Annual Conference of the Cognitive Science Society* (pp. 164-170).



- (20) Veldre, A. & **Reichle, E. D.**, Yu, L., & Andrews, S. (2020). Towards a complete model of reading: Simulating lexical decision, word naming, and sentence reading with Über-Reader. *Proceedings of the 42<sup>nd</sup> Annual Conference of the Cognitive Science Society* (pp. 151-157).
- (19) 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* (pp. 51-66). Boston, MA, USA: MIT Press.
- (18) 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.
- (17) **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.
- (16) Reingold, E. M., Seridan, 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.
- (15) **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.
- (14) **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.
- (13) **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.)
- (12) \*Liu, Y. & **Reichle, E. D.** (2010). The emergence of adaptive eye movements in reading. In S. Ohlsson & R. Catraborto (Eds.), *Proceedings of the 32<sup>nd</sup> Annual Conference of the Cognitive Science Society* (pp. 1136-1141). Austin, TX: Cognitive Science Society.
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- (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.
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- (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.
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- (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.
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#### **CONFERENCE PRESENTATIONS (Note: \* student co-authors)**

- (145) Mézière, D., Yu, L., von der Malsburg, T., **Reichle, E. D.**, & McArthur, G. (2023, July). Predicting recall performance from eye movements during normal reading. Paper to be presented at the 30<sup>th</sup> Annual Meeting of the Society for the Scientific Study of Reading, Port Douglas, Australia.
- (144) **Reichle, E. D.**, Liao, S., Yu, L., & Kruger, J.-L. (2023, July). Using a dual-task paradigm, eye movements, and simulations to understand the reading of subtitles in film. Paper to be presented at the 30<sup>th</sup> Annual Meeting of the Society for the Scientific Study of Reading, Port Douglas, Australia.
- (143) Wegener, S., **Reichle, E. D.**, Beyersmann, E., Nation, K., & Castles, A. (2023, July). Tracking and modelling the spacing effect during orthographic learning. Paper to be presented at the 30<sup>th</sup> Annual Meeting of the Society for the Scientific Study of Reading, Port Douglas, Australia.
- (142) Veldre, A., **Reichle, E. D.**, Yu, L., & Andrews, S. (2023, July). The influence of task demands on lexical processing across the visual field. Paper to be presented at the 30<sup>th</sup> Annual Meeting of the Society for the Scientific Study of Reading, Port Douglas, Australia.
- (141) Yu, L., Dang, G. T. H., & **Reichle, E. D.** (2023, July). The effect of auditory information and its rate on reading. Paper to be presented at the 30<sup>th</sup> Annual Meeting of the Society for the Scientific Study of Reading, Port Douglas, Australia.

- (140) Wu, S., Qahtani, F. S., Warrington, K. L., **Reichle, E. D.**, Paterson, K. B., & White, S. J. (2023, January). Eye movement control during rapid reading: Evidence from empirical studies and computational modelling. Paper to be presented at the Meeting of the Experimental Psychology Society, London, UK.
- (139) Veldre, A., Wong, R., Yu, L., **Reichle, E. D.**, & Andrews, S. (2022, November). Age differences in the extraction and integration of parafoveal information during reading. Poster presented at the 62<sup>nd</sup> Annual Meeting of the Psychonomic Society, Boston, MA, USA.
- (138) Wu, S., Warrington, K. L., Qahtani, F. S., **Reichle, E. D.**, Patterson, K. B., & White, S. (2022, September). Effects of reading goals on eye movement behavior, lexical processing and sentence processing. Paper presented at the Annual Conference on Architectures and Mechanisms for Language Processing, York, UK.
- (137) Mézière, D., Yu, L., **Reichle, E. D.**, von der Malsburg, T., & McArthur, G. (2022, September). Scanpath regularity as a measure of reading comprehension ability. Paper presented in N. McIntyre, I. Coombs, A. Peters, T. Törmänen, & L. Catrysse (Chairs), *Proceedings of the EARLI Special Interest Group on Online Measures of Learning Processes (SIG27)*, Southampton, UK.
- (136) **Reichle, E. D.** & Boag, S. (2022, August). Towards a model of the reconstructed self: Exploratory simulations. Paper presented at the Personality and its Disorders Conference, Sydney, Australia.
- (135) Mézière, D., Yu, L., **Reichle, E. D.**, von der Malsburg, T., & McArthur, G. (2022, August). Scanpath regularity as a predictor of performance on reading comprehension assessments. Paper presented at the 21<sup>st</sup> European Conference on Eye Movements, Leicester, UK.
- (134) Veldre, A., **Reichle, E. D.**, Yu, L., & Andrews, S. (2022, August). The influence of task demands on word identification across the visual field. Poster presented at the 22<sup>nd</sup> Annual Conference of the European Society for Cognitive Psychology, Lille, France.
- (133) Wu, S., Warrington, K. L., **Reichle, E. D.**, Paterson, K. B., & White, S. J. (2022, August). Eye movement control during reading and skimming: Effects of word length. Talk presented at the 21<sup>st</sup> European Conference on Eye Movements, Leicester, UK.
- (132) **Reichle, E. D.**, Veldre, A., Yu, L., & Andrews, S. (2022, July). A neural implementation of MINERVA 2. Poster presented at the 44<sup>th</sup> Annual Meeting of the Cognitive Science Society, Toronto, Canada.
- (131) **Reichle, E. D.** (2022, February). Towards a model of Chinese reading. Keynote paper presented at the 6<sup>th</sup> Annual Conference for the Association for Reading and Writing in Asia, Virtual Meeting.
- (130) \*Simpson, J., Nalepka, P., \*Crone, C. L., Kallen, R. W., Dras, M., **Reichle, E. D.**, Hosking, S., Best., C., Richards, D., & Richardson, M. J. (2021, October). Tip of the finger or tip of the tongue? The effects of verbal communication on online multi-player team performance. Paper presented at the 24<sup>th</sup> ACM Conference on computer-supported cooperative work and social computing, Virtual Meeting.
- (129) \*Mézière, D., Yu, L., **Reichle, E. D.**, von der Malsburg, T., & McArthur, G. (2021, September). Can eye movements be used to predict reading comprehension ability? Paper presented at the Annual Conference on Architectures and Mechanisms for Language Processing, Paris, France.

- (128) \*Mézière, D., Yu, L., **Reichle, E. D.**, von der Malsburg, T., & McArthur, G. (2021, July). Using eye movements to predict reading comprehension scores. Paper presented at the 28<sup>th</sup> Annual Meeting of the Society for the Scientific Study of Reading, Virtual Meeting.
- (127) \*Mézière, D., Yu, L., **Reichle, E. D.**, von der Malsburg, T., & McArthur, G. (2021, July). Exploring recall as an ecologically valid measure of reading comprehension. Poster presented at the 28<sup>th</sup> Annual Meeting of the Society for the Scientific Study of Reading, Virtual Meeting.
- (126) \*Pratts, M., \*Simpson, J., Nalepka, P., Kallen, R. W., Dras, M., **Reichle, E. D.**, Hosking, S., Best, C., & Richardson, M. J. (2021, July). The structure of team search behaviors with varying access to information. Paper presented at the 43<sup>rd</sup> Annual Meeting of the Cognitive Science Society, Vienna, Austria.
- (125) **Reichle, E. D.**, Yu, L., \*Liao, S., & Kruger, J.-L. (2021, July). Using simulations to understand the reading of rapidly displayed subtitles. Paper presented at the 43<sup>rd</sup> Annual Meeting of the Cognitive Science Society, Vienna, Austria.
- (124) \*Mézière, D., Yu, L., **Reichle, E. D.**, von der Malsburg, T., & McArthur, G. (2021, March). Using eye movements to predict performance on reading comprehension tests. Paper presented at the 34<sup>th</sup> Annual CUNY Conference on Human Sentence Processing, Philadelphia, PA, USA.
- (123) **Reichle, E. D.**, Liu, Y., & Yu, L. (2021, March). Simulations to examine eye-movement control during the reading of Chinese. Paper presented at the 5<sup>th</sup> Annual Conference for the Association for Reading and Writing in Asia, Taipei, Taiwan.
- (122) Andrews, S. \*Wong, R., Yu, L., Veldre, A., **Reichle, E. D.** (2020, November). How do task demands influence predictability effects during online text reading? Paper presented at the Annual Meeting of the 61<sup>st</sup> Psychonomics Society, Virtual Psychonomics.
- (121) Liu, Y., **Reichle, E. D.**, & Yu, L. (2020, November). Towards a comprehensive model of Chinese reading. Paper presented at the 61<sup>st</sup> Annual Meeting of the Psychonomics Society, Virtual Psychonomics.
- (120) Veldre, A., Yu, L., Andrews, S., & **Reichle, E. D.** (2020, November). The effect of foveal eccentricity on word identification: Theory and data. Paper presented at the 61<sup>st</sup> Annual Meeting of the Psychonomics Society, Virtual Psychonomics.
- (119) Xiong, J., Yu, L., Veldre, A., Drieghe, D., **Reichle, E. D.**, & Andrews, S. (2020, November). A multi-task examination of word- and character-frequency effects in Chinese. Poster presented at the 61<sup>st</sup> Annual Meeting of the Psychonomics Society, Virtual Psychonomics.
- (118) \*Mézière, D., Yu, L., **Reichle, E. D.**, von der Malsburg, T., & McArthur, G. (2020, September). Using eye movements to index reading comprehension ability. Poster presented at the Annual Conference on Architectures and Mechanisms for Language Processing, Potsdam, Germany.
- (117) \*Mézière, D., Yu, L., **Reichle, E. D.**, von der Malsburg, T., & McArthur, G. (2020, July). A comparison of three reading comprehension tests using eye movements. Paper was accepted for presentation at the 27<sup>th</sup> Annual Meeting of the Society for the Scientific Study of Reading, Newport Beach, CA, USA. [Conference was canceled due to COVID-19.]
- (116) **Reichle, E. D.** & Schotter, E. R. (2020, July). A computational analysis of the constraints on parallel word identification. Paper presented at the 42<sup>nd</sup> Annual Meeting of the Cognitive Science Society, Toronto, Canada.

- (115) Veldre, A. & **Reichle, E. D.**, Yu, L., & Andrews, S. (2020, July). Towards a complete model of reading: Simulating lexical decision, word naming, and sentence reading with Über-Reader. Paper presented at the 42<sup>nd</sup> Annual Meeting of the Cognitive Science Society, Toronto, Canada.
- (114) **Reichle, E. D.** (2019, November). Towards a model of reading. Paper presented at the 60<sup>th</sup> Annual Meeting of the Psychonomic Society, Montreal, Canada.
- (113) Veldre, A., Andrews, S., Yu, L., Drieghe, D., & **Reichle, E. D.** (2019, November). Towards a model of reading: Evaluating lexical decision performance of Über-Reader. Poster presented at the 60<sup>th</sup> Annual Meeting of the Psychonomic Society, Montreal, Canada.
- (112) **Reichle, E. D.** & Schotter, E. R. (2019, August). Using simulations to understand parafoveal preview and the nature of lexical processing during reading. Paper presented in E. Schotter & B. Payne (Chairs), *Word processing across space and time: Insights from eye tracking, electrophysiology, and computational model*. Symposium conducted at the 20<sup>th</sup> European Conference on Eye Movements, Alicante, Spain.
- (111) Veldre, A., **Reichle, E. D.**, \*Wong, R. & Andrews, S. (2019, August). Contextual plausibility effects on word skipping during reading. Paper presented in E. Schotter & B. Payne (Chairs), *Word processing across space and time: Insights from eye tracking, electrophysiology, and computational model*. Symposium conducted at the 20<sup>th</sup> European Conference on Eye Movements, Alicante, Spain.
- (110) Yu, L., Liu, Y., & **Reichle, E. D.** (2019, August). A large-scale eye-movement study of Chinese reading: Implications for models of reading. Paper presented at the 20<sup>th</sup> European Conference on Eye Movements, Alicante, Spain.
- (109) Kruger, J.-L., \*Liao, S., Yu, L., & **Reichle, E. D.** (2019, July). How the reading architecture adapts to dynamic multimodal contexts. Paper presented in E. Reichle (Chair), *The cognitive architecture of reading*. Symposium conducted at the 26<sup>th</sup> Annual Meeting of the Society for the Scientific Study of Reading, Toronto, Canada.
- (108) **Reichle, E. D.** Towards a model of the reading architecture. (2019, July). Paper presented in E. Reichle (Chair), *The cognitive architecture of reading*. Symposium conducted at the 26<sup>th</sup> Annual Meeting of the Society for the Scientific Study of Reading, Toronto, Canada.
- (107) \*Liao, S., Kruger, J.-L., Yu, L., & **Reichle, E. D.** (2019, June). The impact of multiple redundancies on subtitle processing and cognitive load. Paper presented at the 8<sup>th</sup> Media for All International Conference, Stockholm University, Stockholm, Sweden.
- (106) **Reichle, E. D.** (2019, April). Towards a model of reading. Paper presented at the 46<sup>th</sup> Annual Conference of the Australasian Society for Experimental Psychology, Wellington, New Zealand.
- (105) Veldre, A., **Reichle, E. D.**, \*Wong, R., & Andrews, S. (2019, April). Contextual plausibility effects on word skipping during reading. Paper 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 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 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 32<sup>nd</sup> 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 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 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 (× 4)
- 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 (× 2)
- University of Southampton, Southampton, UK (× 4, Leverhulme lecture series)
- University of Sydney, Sydney, Australia
- University of Western 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)
- Macquarie University, Department of Cognitive Science, North Ryde, NSW, Australia (2-day cognitive modeling workshop for IDEALAB)
- 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, Macquarie University (2017-present):

- *Computational Models in Psychology*
- *Design and Statistics III*

Guest Lecturer, Macquarie University (2017-present):

- *Undergraduate Seminar: Advanced Topics (Reading in the Past, Present, and Future)*; lecture: Super Models of Reading
- *Undergraduate Seminar: Cognitive Processes II*; lecture: Reading in Humans and Machines

Instructor, University of Southampton (2013-2017):

- *Graduate Seminar: Computational Modeling*
- *Language & Memory*, University of Southampton

Guest Lecturer, University of Southampton (2013-2017):

- *Undergraduate Seminar: Eye Movements and Visual Cognition*; lecture: Modeling Eye-Movement Control in Reading

Instructor, University of Pittsburgh (2001-2013):

- *Cognitive Psychology*
- *Graduate Seminar: Computational Modeling*
- *Graduate Seminar: Neuroscience Journal Club*
- *Graduate Statistics*
- *Research Methods*

Guest Lecturer, University of Pittsburgh (2001-2013):

- *Graduate Seminar: Memory*; lecture: Memory Models
- *Graduate Research Methods*; lectures: (1) Eye-Tracking Methods; (2) Computational Modeling; (3) Advanced Statistical Methods

Instructor, University of Massachusetts at Amherst (1990-1997):

- *Cognitive Psychology*
- *Honors Cognitive Psychology*

### EXTERNAL GRANT SUPPORT

- Australian Research Council, Australia (DP200100311) 2020-2022  
*When reading takes off: Children's word learning during independent reading*  
Total costs: \$755,422 AUD  
Project role: Co-I (Castles, A., PI; Beyersmann, L., Co-I; Nation, K., Co-I)
- Australian Research Council, Australia (DP190100719) 2019-2021  
*Tracking towards a complete model of skilled reading comprehension*  
Total costs: \$366,513 AUD  
Project role: Co-I (Andrews, S. J., PI; Drieghe, D., Co-I)
- Australian Government, Department of Defense, DSTG 2019-2021  
*Developing responsive and adaptive artificial-agents for team training*  
Total costs: \$483,674 AUD  
Project role: Co-I (Richardson, M., PI; Kallen, R., PI; Dras, M., Co-I; Nalepka, P., Co-I)
- Biotext, Ltd., Australia 2019  
*Developing a clear communication index for health information*  
Total costs: \$46,525 AUD  
Project role: Co-I (Kruger, J.-L., PI; Peters, P., Co-I; Stanford, R., Co-I; Irish, J., Co-I; Yu, L., Co-I)
- Economic and Social Research Council, UK 2018-2020  
*Revealing the implications of reading strategy for reading behavior and comprehension*  
Total costs: £387,136  
Project role: Co-I (White, S. J., Primary Investigator; Paterson, K., Co-I)
- National Institute of Health, USA (RO1HD075800) 2013-2018  
*Cognitive load in the bilingual brain: Insights from disengaged reading*  
Total costs: \$3,194,540 US  
Project role: Co-I (Goldinger, S. D., PI; Papesh, M. H., Co-I; Tokowicz, N., Co-I)
- National Institute of Health, USA (RO1HD053639) 2007-2012  
*Eye movement control: Coordinating perception, cognition, and action in reading*  
Total costs: \$1,125,000 US  
Project role: PI (Warren, T., Co-I)

- Institute of Education Sciences, USA (R305H030235) 2002-2005  
*Lapses in meta-cognition during reading: Understanding comprehension failure*  
Total costs: \$690,658 US  
Project role: Co-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 US  
Project role: Co-I (Perfetti, C. A., PI; Beck, I. L., Co-I; McKeown, M. G., Co-I)
- 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 US  
Project role: Co-I (Schmalhofer, F., PI; Perfetti, C. A., Co-I; Griego, J., Co-I)

### INTERNAL GRANT SUPPORT

- Macquarie University, Faculty Research Infrastructure Fund, Australia 2019  
*Portable, VR, and multi-agent eye-tracking*  
Total costs: \$144,786 AUD  
Project role: Co-I (Richardson, M., PI; Yu, L., Co-I; Kallen, R., Co-I; Nalepka, P., Co-I; Patil, G., Co-I; Kruger, J.-L., Co-I; Ryan, M., Co-I)
- Macquarie University, ARC Legacy Support Scheme, Australia 2019  
*Tracking and modeling the acquisition of morphological knowledge when learning to read novel words*  
Total costs: \$14,412 AUD  
Project role: Co-I (Beyersmann, L., PI; Castles, A., Co-I)
- Macquarie University, Faculty Research Infrastructure Fund, Australia 2018  
*FHS eye-tracking facilities*  
Total costs: \$144,786 AUD  
Project role: PI (Kruger, J.-L., Co-I; McArthur, G., Co-I; Ryan, M., Co-I; Wiggins, M., Co-I)
- Macquarie University, Strategic Priority Grants Scheme, Australia 2018  
*Student engagement in online learning – Psychology via OUA*  
Total costs: \$150,000 AUD  
Project role: Co-I (Beath, A., PI; Irwin, J., Co-I)
- Zayed University, Research Incentive Fund (RIF), UAE 2017-2019  
*An eye-tracking and computational modeling investigation of Arabic word identification and sentence reading*  
Total costs: \$41,000 US  
Project role: Co-I (Hermena, E. W., PI; Jordan, T. R., Co-I; Sheen, M., Co-I)
- 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-I; Niblo, G. A., Co-I; Pitarakis, J.-Y., Co-I)
- Pittsburgh Science of Learning Center, USA 2006-2007  
*A word-experience model of Chinese character learning*



Total costs: \$46,830 US (\$34,629 direct costs; \$12,202 indirect costs)  
Project role: PI (Perfetti, C. A., Co-I; Liu, Y., Co-I)

## 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 funding agencies: (1) Australian Research Council; (2) Economic and Social Research Council (UK); (3) Institute of Education Sciences (USA); (4) Leverhulme Trust (UK)
- Ad hoc reviewer for the following journals: (1) *Acta Psychologica*; (2) *Applied Cognitive Psychology*; (3) *Attention, Perception, & Psychophysics*; (4) *Behavior Research Method*; (5) *British Journal of Psychology*; (6) *Canadian Journal of Experimental Psychology*; (7) *Cerebral Cortex*; (8) *Child Development*; (9) *Cognition*; (10) *Cognitive, Affective, and Behavioral Neuroscience*; (11) *Cognitive Psychology*; (12) *Cognitive Science*; (13) *Computational Brain & Behavior*; (14) *Consciousness and Cognition*; (15) *Current Directions in Psychological Science*; (16) *Emotion*; (17) *Experimental Brain Research*; (18) *Human Factors*; (19) *i-Perception*; (20) *Journal of Cognitive Neuroscience*; (21) *Journal of Cognitive Psychology*; (22) *Journal of Cognitive Science*; (23) *Journal of Experimental Psychology: Human Perception and Performance*; (24) *Journal of Experimental Psychology: Learning, Memory, and Cognition*; (25) *Journal of Eye Movement Research*; (26) *Journal of Neuroscience, Psychology, and Economics*; (27) *Journal of Vision*; (28) *Language and Linguistics Compass*; (29) *Language, Cognition and Neuroscience*; (30) *Language Learning and Development*; (31) *Memory & Cognition*; (32) *Nature Communications*; (33) *Neuropsychologia*; (34) *Neuropsychology*; (35) *PeerJ*; (36) *Perception & Psychophysics*; (37) *PLOS ONE*; (38) *Proceedings of the National Academy of Sciences*; (39) *Psychological Science*; (40) *Psychology and Aging*; (41) *Psychonomic Bulletin & Review*; (42) *Psychophysiology*; (43) *Quarterly Journal of Experimental Psychology*; (44) *Schizophrenia Bulletin*; (45) *Science*; (46) *Scientific Data*; (47) *Vision Research*; (48) *Visual Cognition*

### Macquarie University (2017-present):

- Center for Emotional Health - Advisory Committee: 2022-present
- Faculty of Human Sciences - Internationalization Committee: 2018-2019
- Faculty of Medicine, Health, and Human Sciences - Work Health Safety Committee: 2020-present
- Macquarie University - Level E Promotions Committee: 2021-2022
- Macquarie University - "Your Say" Survey Champion: 2019
- Macquarie University Center for Elite Performance, Expertise, and Training - Member: 2017-2022
- Macquarie University Center for Reading - Executive Committee: 2019-2022
- School of Psychological Sciences - Emergency First Aid Responder: 2022-present

### University of Southampton (2013-2017):

- 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

University of Pittsburgh (2001-2013):

- 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

Other Misc. Professional:

- Program Committee, 6<sup>th</sup> International Conference on Cognitive Modeling, Pittsburgh, PA, USA: 2004
- 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: 2011
- 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: 2019
- Symposium Organizer and Co-Chair, *Higher order influences on reading*, 15<sup>th</sup> European Conference on Eye Movements, Southampton, UK: 2009
- Symposium Organizer and Chair, *Models of eye-movement control during reading*, 6<sup>th</sup> International Conference on Cognitive Modeling, Pittsburgh, PA, USA: 2004
- Symposium Organizer and Chair, *Models of eye-movement control during reading*, 12<sup>th</sup> European Conference on Eye Movements, Dundee, UK: 2003
- Treasurer, The Psychology Foundation of Australia: 2020-present

## **POST-DOCTORATE MENTORING**

- Tomek Loboda, PhD (2013-2018)
- Sixin Liao, PhD (2022-present)
- Heather Sheridan, PhD (2013-2015)
- Aaron Veldre, PhD (2017-2022)

## **POST-GRADUATE STUDENT MENTORING**

Macquarie University (2017-present):

- Amber Bunting - psychology (co-supervisor)
- Sixin Liao, PhD - linguistics (co-supervisor)
- Diane Mézière, PhD - cognitive science (co-supervisor)
- Myriam Pitre - psychology (co-supervisor)
- Mathew Pratts, MRes - psychology (co-supervisor)
- Andrew Tran, PhD - psychology (primary supervisor)
- Joshua Vinson, MRes - psychology (co-supervisor)
- Xin Yi Yap - MRes (secondary supervisor)

University of Southampton (2013-2017):

- Sheenie Au-Yeung, PhD - cognitive psychology (viva internal examiner)
- Nicholas Hedger, PhD - cognitive psychology (viva internal examiner)
- Caspian (Imogen) Priest, MSc - cognitive psychology (co-supervisor)

University of Pittsburgh (2001-2013):

- 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 (supervisor)
- Nicole Landi, PhD - cognitive psychology (committee member, IGERT co-supervisor)
- Patryk Laurent, PhD - neuroscience (supervisor)
- Tomek Loboda, PhD - information sciences (co-supervisor)
- Katherine Martin, MA - linguistics (committee member)
- Kerry McConnell, MS - cognitive psychology (co-supervisor)
- 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)

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 supervisor, co-supervisor)
- 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, DIRECTED RESEARCH, & HONORS STUDENT MENTORING**

Macquarie University (2017-present):

- Baxter Brown - BPsych Honors (2022) (primary supervisor)
- Pooja Chivukula - BPsych Honors (2022) (secondary supervisor)
- Eduardo Conception - BPsych Honors (2019) (primary supervisor)
- Katherine Crichton - BPsych Honors (2021) (primary supervisor)
- Leah Dawson - BPsych Honors (2022) (secondary supervisor)
- Julian Rifkin - BPsych Honors (2020) (supervisor)
- Hannah Rosmarin - BPsych Honors (2020) (supervisor)
- Isabella Rossettin - BPsych Honors (2018) (supervisor)
- Diya Sham - BPsych Honors (2023) (primary supervisor)
- Rebecca Sara - BPsych Honors (2023) (secondary supervisor)
- Michael Tafft - BPsych Honors (2021) (secondary supervisor)
- Giang Tran - BPsych Honors (2022) (secondary supervisor)
- Max Wrenn - BPsych Honors (2023) (primary supervisor)
- Xin Yi Yap - BPsych Honors (2021) (secondary supervisor)

University of Southampton (2013-2017):

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

University of Pittsburgh (2001-2013):

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