

HEATHER SHERIDAN, PH.D.

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ACADEMIC APPOINTMENTS

- **2015 – present:** Assistant Professor, Department of Psychology, University at Albany, SUNY
- **2013 – 2015:** Postdoctoral Research Fellow, University of Southampton, U.K.
Research topic: Computational Models of Reading (Dr. Erik Reichle)

EDUCATION

- **2008 – 2013:** Ph.D., Cognitive Psychology, University of Toronto, Canada
Research topic: Lexical Effects on Eye Movements during Reading (Dr. Eyal Reingold)
- **2007 – 2008:** M.A., Cognitive Psychology, University of Toronto, Canada
Research topic: Lexical Ambiguity Resolution (Dr. Eyal Reingold, Dr. Meredyth Daneman)
- **2003 – 2007:** Honours B.A., Psychology, McMaster University, Canada
Research topic: Multisensory Perception (Dr. David Shore)

RESEARCH INTERESTS

Visual Cognition, Expertise, Reading & Language, Cognitive Neuroscience, Memory & Awareness, Perception & Problem Solving in Chess, Eye-Movement Monitoring, EEG/ERPs, Statistics & Research Methods, Computational Modeling, Distributional Analysis Techniques

GRANTS & FELLOWSHIPS

- Postdoctoral Fellowship (PDF) from the Natural Sciences and Engineering Research Council of Canada (NSERC), \$80,000, 2013-2015
- Canada-UK Millennium Research Award, \$10,000, 2013-2015
- NSERC Canada Graduate Scholarship (Doctoral Level), \$70,000, 2009-2011
- NSERC Postgraduate Scholarship Extension, \$21,000, 2008-2009
- NSERC Canada Graduate Scholarship (Masters Level), \$17,500, 2007-2008
- Ontario Graduate Scholarship (declined), \$15,000, 2007
- NSERC Undergraduate Student Research Award, \$4,500, 2006-2007

AWARDS

- European Conference on Eye Movements (ECEM) Best Paper Award Finalist, 2013
- Helen Sawyer Hogg Award, University of Toronto, \$5,000, 2007
- Abe Black Memorial Graduation Prize (for the highest graduating average in the McMaster Psychology B.A. program), 2007
- Dr. Harry Lyman Hooker Scholarship, McMaster University, \$1,500, 2005-2006
- University Senate Scholarship, McMaster University, \$800, 2004
- Recipient of the McMaster Entrance Award, \$4,000, 2003-2005

PEER-REVIEWED JOURNAL ARTICLES

Yu, L., Zhang, Q., Priest, C., Reichle, E.D., & **Sheridan, H.** (2018). Character complexity effects in reading and visual search: A comparison and theoretical implications. *QJEP*, *71*(1), 140-151, doi: 10.1080/17470218.2016.1272616.

Sheridan, H. & Reingold, E. M. (2017). The holistic processing account of visual expertise in medical image perception: A review. *Frontiers in Psychology*, Research Topic: "Medical Image Perception: How Much Do We Understand It?", *8*:1620, doi: 10.3389/fpsyg.2017.01620.

Reingold, E. M., & **Sheridan, H.** (2017). On using distributional analysis techniques for determining the onset of the influence of experimental variables. *QJEP*, Advance online publication, doi: 10.1080/17470218.2017.1310262.

Sheridan, H. & Reingold, E. M. (2017). Chess players' eye movements reveal rapid recognition of complex visual patterns: Evidence from a chess-related visual search task. *Journal of Vision*, *17*(3):4, 1–12, doi: 10.1167/17.3.4.

Reingold, E. M., **Sheridan, H.**, Meadmore, K. L., Drieghe, D., & Liversedge, S. P. (2016). Attention and eye-movement control in reading: The selective reading paradigm. *Journal of Experimental Psychology: Human Perception and Performance*. *42*(12), 2003-2020, doi: 10.1037/xhp0000291.

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, doi: 10.3758/s13423-015-0997-y.

Sheridan, H., & Reichle, E. D. (2016). An analysis of the time course of lexical processing during reading. *Cognitive Science*, *40*, 522-553. doi:10.1111/cogs.12246.

Ando, E., Matsuki, K., **Sheridan, H.**, & Jared, D. (2015). The locus of Katakana-English masked phonological priming effects. *Bilingualism: Language and Cognition*, *18*(1), 101-117. doi:10.1017/S1366728914000121.

- Reingold, E. M. & **Sheridan, H.** (2014). Estimating the divergence point: A novel distributional analysis procedure for determining the onset of the influence of experimental variables. *Frontiers in Psychology*, 5:1432. doi: 10.3389/fpsyg.2014.01432.
- Sheridan, H.** & Reingold, E. M. (2014). Expert versus novice differences in the detection of relevant information during a chess game: Evidence from eye movements. *Frontiers in Psychology*, 5:941. doi:10.3389/fpsyg.2014.00941.
- Sheridan, H.**, & Reingold, E. M. (2013). The mechanisms and boundary conditions of the Einstellung effect in chess: Evidence from eye movements. *PLoS ONE* 8(10): e75796. doi:10.1371/journal.pone.0075796.
- Sheridan, H.**, & Reingold, E. M. (2013). A further examination of the lexical processing stages hypothesized by the E-Z Reader model. *Attention, Perception, & Psychophysics*, 75, 407-414. doi: 10.3758/s13414-013-0442-0.
- Sheridan, H.**, Rayner, K. & Reingold, E. M. (2013). Unsegmented text delays word identification: Evidence from a survival analysis of fixation durations. *Visual Cognition*, 21, 38-60. doi: 10.1080/13506285.2013.767296.
- Sheridan, H.**, & Reingold, E. M. (2012). Perceptually specific and perceptually non-specific influences on rereading benefits for spatially transformed text: Evidence from eye movements. *Consciousness and Cognition*, 21, 1739-1747. doi:10.1016/j.concog.2012.10.002.
- Sheridan, H.**, & Reingold, E. M. (2012). Perceptual specificity effects in rereading: Evidence from eye movements. *Journal of Memory and Language*, 67, 255–269. doi: 10.1016/j.jml.2012.05.005.
- Sheridan, H.** & Reingold, E. M. (2012). The time course of contextual influences during lexical ambiguity resolution: Evidence from distributional analyses of fixation durations. *Memory & Cognition*, 40, 1122-1131. doi: 10.3758/s13421-012-0216-2.
- Sheridan, H.** & Reingold, E. M. (2012). The time course of predictability effects in reading: Evidence from a survival analysis of fixation durations. *Visual Cognition*, 20, 733-745. doi: 10.1080/13506285.2012.693548.
- Reingold, E. M., Reichle, E. D., Glaholt, M. G., & **Sheridan, H.** (2012). Direct lexical control of eye movements in reading: Evidence from a survival analysis of fixation durations. *Cognitive Psychology*, 65, 177-206, doi: 10.1016/j.cogpsych.2012.03.001.
- Sheridan, H.**, & Reingold, E. M. (2012). Levels of processing influences both recollection and familiarity: Evidence from a modified remember–know paradigm. *Consciousness and Cognition*, 21, 438-443, doi:10.1016/j.concog.2011.09.022.

Sheridan, H. & Reingold, E. M. (2011). Recognition memory performance as a function of reported subjective awareness. *Consciousness and Cognition*, *20*, 1363-1375, doi:10.1016/j.concog.2011.05.001.

Sheridan, H., Reingold, E. M., & Daneman, M. (2009). Using puns to study contextual influences on lexical ambiguity resolution: Evidence from eye movements. *Psychonomic Bulletin & Review*, *16*, 875-881.

BOOK CHAPTERS

Reichle, E. D., & **Sheridan, H.** (2015). E-Z Reader: An Overview of the Model and Two Recent Applications. In A. Pollatsek & R. Treiman (Eds.), *The Oxford Handbook of Reading* (pp. 277–290). Oxford, U.K.: Oxford University Press.

Reingold, E. M., **Sheridan, H.**, & Reichle, E. D. (2015). Direct lexical and nonlexical control of fixation duration in reading. In A. Pollatsek, & R. Treiman (Eds.), *The Oxford Handbook of Reading* (pp. 261–276). Oxford University Press, Oxford, UK.

Reingold, E. M., & **Sheridan, H.** (2011). Eye movements and visual expertise in chess and medicine. In S.P. Liversedge, I.D. Gilchrist, & S. Everling, (Eds.), *Oxford Handbook on Eye Movements*. Oxford University Press, Oxford, UK.

Reingold, E. M., & **Sheridan, H.** (2009). Dissociation Methods. In P. Wilken, T. Bayne, & A. Cleeremans, (Eds.), *Oxford Companion to Consciousness*. Oxford University Press, Oxford, UK.

CONFERENCE PRESENTATIONS

Juhasz, B.J , & **Sheridan, H.** (2017, November). *An Exploration of the Time Course of Age-of-Acquisition Effects during Eye Movements in Reading*. Talk to be presented at the 58th Annual Meeting of the Psychonomic Society, Vancouver, Canada.

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 58th Annual Meeting of the Psychonomic Society, Vancouver, Canada.

Sheridan, H., & Juhasz, B.J. (2017, August). *Distributional analyses of age of acquisition effects on fixation durations during reading*. Talk presented at the 19th European Conference on Eye Movements, Wuppertal, Germany.

Sheridan, H. (2016, November). *Distributional effects of interword spacing on eye fixations during reading* Talk presented at the 57th Annual Meeting of the Psychonomic Society, Chicago, Illinois.

- 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 7th China International Conference on Eye Movements, Changchun, China.
- Sheridan, H.**, Reichle, E. D. & Reingold, E. (2015, November). *Why does unsegmented text produce reading deficits?* Talk presented at the 56th Annual Meeting of the Psychonomic Society, Chicago, Illinois.
- Reingold, E. M., & **Sheridan, H.** (2015, August). *The perceptual component of chess expertise: Evidence from eye movements*. Talk presented at the 18th European Conference on Eye Movements, Vienna, Austria.
- Sheridan, H.**, Reichle, E. D., & Reingold, E. (2015, March). *Why does removing inter-word spaces produce reading deficits?* Talk presented at the Rank Prize Funds Symposium on Visual Aspects of Reading, Grasmere, U.K.
- Sheridan, H.**, Reichle, E. D., & Reingold, E. (2014, November). *Using E-Z Reader to model distributions of fixation durations*. Poster presented at the 55th Annual Meeting of the Psychonomic Society, Long Beach, CA.
- Sheridan, H.**, & Reingold, E. (2014, November). *Reading unsegmented text reduces preview benefits*. Poster presented at the 55th Annual Meeting of the Psychonomic Society, Long Beach, CA.
- Sheridan, H.** & Reichle, E. D. (2014, July). *Using E-Z Reader to examine the time course of lexical effects on fixation durations during reading*. Talk presented at the Meeting of the Experimental Psychology Society, Newcastle, U.K.
- Reichle, E. D. & **Sheridan, H.** (2014, May). *Using E-Z Reader to examine the time course of lexical processing*. Talk presented at the 6th China International Conference on Eye Movements, Beijing, China.
- Sheridan, H.**, Reingold, E. M. (2014, May). *Chess players' eye movements reveal rapid recognition of complex visual patterns*. Poster session presented at the 14th Annual Meeting of the Vision Sciences Society, St. Pete Beach, Florida.
- Sheridan, H.** (2014, May). *Individual differences in visual expertise in the domain of chess*. Vision Sciences Society (VSS) Satellite Event: Individual Differences in Vision, St. Pete Beach, Florida.
- Ando, E., Matsuki, K., **Sheridan, H.**, & Jared, D. (2013, November). *Are Japanese-English Phonological Priming Effects Lexical or Prelexical?* Poster session presented at the 54th annual meeting of the Psychonomic Society, Toronto, Canada.

- Sheridan, H.**, & Reingold, E. M. (2013, November). *The Einstellung Effect in chess: Evidence from eye movements*. Poster session presented at the 54th annual meeting of the Psychonomic Society, Toronto, Canada.
- Sheridan, H.**, & Reingold, E. M. (2013, August). *The time-course of lexical influences on fixation durations during reading: Evidence from distributional analyses*. Talk presented at the 17th European Conference on Eye Movements, Lund, Sweden.
- Sheridan, H.**, & Reingold, E. M. (2013, August). *Early versus late lexical processing during reading: Evidence from eye movements*. Poster session presented at the 17th European Conference on Eye Movements, Lund, Sweden.
- Sheridan, H.**, Reingold, E. M. (2013, May). *Distinct stages of word identification during reading: Evidence from eye movements*. Poster session presented at the 13th Annual Meeting of the Vision Sciences Society, Naples, Florida.
- Sheridan, H.**, & Reingold, E. M. (2012, November). *Rapid contextual influences during reading: Evidence from eye movements*. Poster session presented at the 53th annual meeting of the Psychonomic Society, Minneapolis, MN.
- Sheridan, H.**, Reingold, E. M. (2012, June). *On the time course of lexical influences in reading: Evidence from eye movements*. Talk presented at the 5th International Conference on Cognitive Science, Kaliningrad, Russia.
- Sheridan, H.**, Reingold, E. M. (2012, May). *Reading unsegmented text: The impact on fixation location and duration*. Poster session presented at the 12th Annual Meeting of the Vision Sciences Society, Naples, Florida.
- Sheridan, H.**, & Reingold, E. M. (2011, November). *Levels of Processing influences both recollection and familiarity: Evidence from a modified RK paradigm*. Poster session presented at the 52th annual meeting of the Psychonomic Society, Seattle, Washington.
- 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*. Talk presented at the 16th European Conference on Eye Movements, Marseille, France.
- Sheridan, H.**, & Reingold, E. M. (2011, August). *Perceptual specificity effects in re-reading: Evidence from eye movements*. Talk presented at the 16th European Conference on Eye Movements, Marseille, France.
- Sheridan, H.**, & Reingold, E. M. (2010, June). *Recognition memory with or without subjective confidence: Qualitative differences*. Poster session presented at the 14th Annual Meeting of the Association for the Scientific Study of Consciousness, Toronto, Ontario.

Sheridan, H., & Reingold, E. M. (2009, November). *Recognition memory in the absence of subjective confidence*. Poster session presented at the 50th annual meeting of the Psychonomic Society, Boston, Massachusetts.

Sheridan, H., & Reingold, E. M., & Daneman, M. (2008, November). *Lexical ambiguity effects in reading*. Poster session presented at the 49th annual meeting of the Psychonomic Society, Chicago, Illinois.

INVITED TALKS

- Binghamton University, SUNY, NY, USA (2016)
- Rensselaer Polytechnic Institute (RPI), NY, USA (2016)
- University of Leicester, Leicester, U.K. (2014)
- University of Southampton, U.K. (2013)
- University of Toronto at Mississauga, ON, Canada (2011)

TEACHING EXPERIENCE

Undergraduate Teaching Experience:

- Experimental Psychology (ASPY 211), 2016-2017, University at Albany, SUNY
- The Psychology of Expertise (APSY 450T), 2017-2018, University at Albany, SUNY
- Statistical Methods in Psychology (ASPY 210), 2016-2017, University at Albany, SUNY
- Experimental Design & Theory (PSY309), 2011-2012, University of Toronto, Mississauga
- Teaching Assistant, 2008-2013, Department of Psychology, University of Toronto, Mississauga
- Introductory Psychology Tutorial Leader, 2006, Department of Psychology, Neuroscience & Behaviour, McMaster University

Graduate Teaching Experience:

- Survey of Cognitive Psychology (ASPY 603), 2015, 2016, 2018, University at Albany, SUNY
- Statistics Workshop Instructor (Distributional Analyses), 2014, Southampton University, U.K.

Guest Lectures:

- Guest Speaker, Honors Thesis Seminar (APSY 399), 2015, University at Albany, SUNY
- Guest Speaker, World of Psychology, 2015-2017, University at Albany, SUNY

Teaching Seminars and Practicums:

- UAlbany Early Career Institute for new faculty, Institute for Teaching, Learning and Academic Leadership (ITLAL), University at Albany, SUNY, 2015
- Teaching in Higher Education (THE500), Woodsworth College, University of Toronto, 2012
- Teaching Practicum: Department of Psychology, University of Toronto, 2012

SPECIALIZED TRAINING & WORKSHOPS

- ET/EEG co-registration Workshop (2017 European Conference on Eye movements)
- The 2015 Event-Related Brain Potential Boot Camp (Center for Mind and Brain, UC Davis)
- Computational Modeling Seminar (University of Southampton, U.K.)
- Advanced Statistics (Distributional Analyses, Linear Mixed Models, Signal Detection Theory)
- Programming in Java, MATLAB and R (Software Carpentry Workshop, University of Toronto)
- Programming and Analyzing Eye-tracking Experiments (SR Research Training Sessions)

SCHOLARLY & PROFESSIONAL ACTIVITY

Professional Affiliations:

- Association for Psychological Science (Member)
- Psychonomic Society (Fellow)
- Vision Sciences Society (Member)
- Women in Cognitive Science (Member)
- Massey College (Junior Fellow Alumni)
- Golden Key International Honor Society (Member)

Ad Hoc Reviewer for the following Journals:

- Behavior Research Methods
- Frontiers in Psychology
- Journal of Experimental Psychology: Human Perception and Performance (*JEP:HPP*)
- Journal of Experimental Psychology: Learning, Memory, and Cognition (*JEP:LMC*)
- Journal of Memory and Language (*JML*)
- Journal of Cognitive Psychology
- Psychonomic Bulletin & Review (*PB&R*)
- Psychophysiology
- Visual Cognition

Departmental Service Activities:

- Colloquium Committee Member, University at Albany, SUNY, 2016-2018
- Lab Course Development (Ad hoc Committee), University at Albany, SUNY, 2016-2018
- Awards Committee Member, University at Albany, SUNY, 2015-2018

Vice-Chair International for the Canadian Association of Postdoctoral Scholars:

- Represented Canadian Postdoctoral Researchers, 2014-2015

Science Community Outreach Activities:

- Judge at the Sub-Regional Junior Science and Humanities Symposium (JSHS) for Eastern New York at Burnt Hills High School (February, 2018)
- Invited Speaker at the 2016 UAlbany Graduate Student Brown Bag Luncheon Series (April, 2016). Title of Seminar: “Optimizing memory, expertise and attention: Success tips from the Cognitive and Brain Sciences”
- Volunteer at the Undergraduate Research Forum (April and November, 2016, October 2017), University at Albany, SUNY
- Assisted with the University of Southampton’s Science and Engineering Day (ranked best STEM Institution Event in the U.K. in 2014)
- Organized a multidisciplinary lecture series, 2009-2010, Massey College, University of Toronto
- Coordinated outreach to participants in chess studies by visiting local chess clubs and by writing science articles for a general audience
- Volunteer Tutor and Mentor, 2008 to 2010, Tutoring and Mentorship Program, Massey College, University of Toronto