

Elizabeth Roye Schotter

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Professional Positions

2016- Present Assistant Professor; Psychology Department, University of South Florida
2013-2016 Post-doctoral Scholar; Rayner Eyetracking Lab, University of California, San Diego

Education

2007-2013 Ph.D., Psychology, University of California, San Diego
2007-2008 M.A., Psychology, University of California, San Diego
2003-2007 B.A.s, Psychology, Classics; *Summa Cum Laude*; *Phi Beta Kappa*; Washington University in St. Louis

Research Fields

Cognitive Psychology, Reading, Psycholinguistics, Language Processing, Language comparisons/Bilingualism, Eye Movements, Visual Perception, Attention, Task Effects

Previous Research Positions

2007-2016 Lab Manager; Rayner Eyetracking Lab, University of California, San Diego
2009 Visiting Researcher; Centre for Vision and Cognition, University of Southampton, UK

Grants & Fellowships

Submitted Co-Principal Investigator on NSF Grant *Collaborative Research: Attention in Games and Decisions* (PI: Andrew Schotter)
2015-2016 Co-Investigator on NIH Grant R01 HD065829 *Linguistic Processes in Sentence Comprehension and Reading* (PI: Roger Levy)
2013-2015 Atkinson Family Endowment Post-doctoral Scholar
2013-2014 Post-doctoral Fellowship under NSF Science of Learning Center VL2 cooperative SBE 1041725 *The Development of the Perceptual Span in Beginning Deaf Readers*
2011-2013 Pre-doctoral Fellowship from the UCSD Center for Research in Language on NIH Training Grant DC000041 *Language, Communication and the Brain* (PI: Marta Kutas)
2011-2012 UCSD Chancellor's Interdisciplinary Collaboratories Grant *How Language and Visual Saliency Jointly Guide Eye Movements in the Perception of Complex Scenes* \$120,000 (student initiator, wrote grant; PIs: Keith Rayner, Roger Levy & Nuno Vasconcelos)

Honors & Awards

2014 Psychonomic Society Select-Speaker Award
2011 Norman Anderson Travel Award, UCSD Psychology Department
2009 UCSD Dean of Social Sciences Travel Fund Award
2009 Experimental Psychology Society Study Visit Grant
2007-present *Phi Beta Kappa*
2007 John A. Stern Outstanding Research Prize in Psychology; Washington U. in St. Louis
2007 Eugene Tavenner Prize in Classics, Washington University in St. Louis

Publications

In Press

Schotter, E.R., Pollatsek, A., & Rayner, K. (in press). Reading. In *Reference Module in Neuroscience and Behavioral Psychology*, Elsevier

2016

Schotter, E.R., & Jia, A. (2016). Semantic and Plausibility Preview Benefit Effects in English: Evidence from Eye Movements. *Journal of Experimental Psychology: Learning, Memory & Cognition*, *42*, 1839-1866.

Schotter, E.R., & Leinenger, M. (2016). Reversed preview benefit effects: Forced fixations emphasize the importance of parafoveal vision for efficient reading. *Journal of Experimental Psychology: Human Perception and Performance*, *42*, 2039-2067.

Clifton, C., Ferreira, F., Henderson, J., Inhoff, A.W., Liversedge, S., Reichle, E.D., & **Schotter, E.R.** (2016). Eye movements in reading and information processing: Keith Rayner's 40 year legacy. *Journal of Memory and Language*, *86*, 1-19.

Leinenger, M., **Schotter, E.R.**, & Rayner, K. (2016). Models of the reading process. In H.L. Miller (Ed.), *The SAGE Encyclopedia of Theory in Psychology*. (pp. 785-789). Los Angeles: SAGE Publications, inc.

Rayner, K., **Schotter, E.R.***, Masson, M., Potter, M.C., & Treiman, R. (2016). So Much to Read, so Little Time: How Do We Read, and Can Speed Reading Help? *Psychological Science in the Public Interest*, *17*, 4-34. ***Corresponding Author**

2015

Schotter, E.R., Lee, M., Reiderman, M., & Rayner, K. (2015). The effect of contextual constraint on parafoveal processing in reading. *Journal of Memory and Language*, *83*, 118-139.

Schotter, E.R., & Rayner, K. (2015). The work of the eyes during reading. In A. Pollatsek & R. Treiman (Eds.), *Oxford Handbook of Reading* (pp. 44-62). Oxford: Oxford University Press.

Angele, B., **Schotter, E.R.**, Slattery, T.J., Tenenbaum, T.L., Bicknell, K., & Rayner, K. (2015). Do successor effects in reading reflect lexical parafoveal processing? Evidence from corpus-based and experimental eye movement data. *Journal of Memory & Language*, *79-80*, 76-96.

2014

Schotter, E.R., Bicknell, K., Howard, I., Levy, R., & Rayner, K. (2014). Task effects reveal cognitive flexibility responding to frequency and predictability: Evidence from eye movements in reading and proofreading. *Cognition*, *131*, 1-27.

Schotter, E.R., Jia, A., Ferreira, V.S., Rayner, K. (2014). Preview benefit in speaking occurs regardless of preview timing or awareness. *Psychonomic Bulletin & Review*, *21*, 755-762.

Schotter, E.R. Reichle, E.D., & Rayner, K. (2014). Rethinking Parafoveal Processing in Reading: Serial Attention Models can Account for Semantic Preview Benefit and n+2 Preview Effects. *Visual Cognition*, *22*, 309-333.

- Schotter, E.R.,** Tran, R., & Rayner, K. (2014). Don't believe what you read (only once): Comprehension is supported by regressions during reading. *Psychological Science, 25*, 1218-1226.
- Gollan, T.H., **Schotter, E.R.,** Gomez, J., Murillo, M., & Rayner, K. (2014). Multiple levels of bilingual control: Evidence from language intrusions in reading aloud. *Psychological Science, 25*, 585-595.
- Rayner, K., & **Schotter, E.R.** (2014). Semantic preview benefit in reading English: The effect of initial letter capitalization. *Journal of Experimental Psychology: Human Perception & Performance, 40*, 1617-1628.
- Rayner, K., **Schotter, E.R.,** & Drieghe, D. (2014). Lack of semantic parafoveal preview benefit in reading revisited. *Psychonomic Bulletin & Review, 21*, 1067-1072.

2013

- Schotter, E.R.** (2013). Synonyms provide semantic preview benefit in English. *Journal of Memory and Language, 69*, 619-633.
- Schotter, E.R.,** Ferreira, V.S. & Rayner, K. (2013). Parallel object activation and attentional gating of information: Evidence from eye movements in the multiple object naming paradigm. *Journal of Experimental Psychology: Learning, Memory and Cognition, 39*, 365-374.
- Schotter, E.R.,** & Rayner, K. (2013). Eye movements in reading. In E. Perego (Ed.), *Eye Tracking in Audiovisual Translation* (pp. 83-104). Rome: Aracne.
- Ferreira, V.S. & **Schotter, E.R.** (2013). Do verb bias effects on sentence production reflect sensitivity to comprehension or production factors? *Quarterly Journal of Experimental Psychology, 66*, 1548-1571.
- Rayner, K., Angele, B, **Schotter, E.R.,** & Bicknell, K. (2013). On the processing of canonical word order during eye fixations in reading: Do readers process transposed word previews? *Visual Cognition, 21*, 353-381.
- Rayner, K. & **Schotter, E.R.** (2013). Eye movements during reading. In H. Pashler (Ed.), *Encyclopedia of the Mind*. (pp. 338-340). Los Angeles: SAGE Publications, inc.
- Wang, H.-C., **Schotter, E.R.,** Angele, B., Yang, J., Simovici, D., Pomplun, M., & Rayner, K. (2013). Using singular value decomposition to investigate the configuration of Chinese characters: Evidence from eye movements during reading. *Journal of Research in Reading, 36*, S35-S50.

2012

- Schotter, E.R,** Angele, B., & Rayner, K. (2012). Parafoveal processing in reading. *Attention, Perception & Psychophysics, 74*, 5-35.
- Schotter, E.R.,** Blythe, H.I., Kirkby, J.A., Rayner, K., Holliman, N.S. & Liversedge, S.P. (2012). Binocular coordination: Reading stereoscopic sentences in depth. *PLoS ONE, 7*.
- Schotter, E.R.,** Gerety, C. & Rayner, K. (2012). Heuristics and criterion setting during selective encoding in visual decision-making: Evidence from eye movements. *Visual Cognition, 20*, 1110-1129.

Schotter, E.R., & Rayner, K. (2012). Eye movements and word recognition during reading. In J. Adelman (Ed.), *Visual Word Recognition Volume 2: Meaning and Context, Individuals and Development* (pp. 73-101). New York: Psychology Press.

Rayner, K., Pollatsek, A. & **Schotter, E.R.** (2012). Reading: Word identification and eye movements. In A. Healy (Ed.) *Handbook of Psychology, Volume 4: Experimental Psychology* (pp. 548-577). Hoboken: Wiley.

2011

Schotter, E.R. (2011). Eye Movements as an index of linguistic processing in language production. *Studies of Psychology and Behavior*, 9, 16-23.

Slattery, T., **Schotter, E.R.**, Berry, R. & Rayner, K. (2011). Parafoveal and foveal processing of abbreviations during reading: Making a case for case. *Journal of Experimental Psychology: Learning Memory and Cognition*, 37, 1022-1031.

2010

Schotter, E.R., Berry, R., McKenzie, C., & Rayner, K. (2010). Gaze bias: Selective encoding and liking effects. *Visual Cognition*, 18, 1113-1132.

Manuscripts In Preparation or Under Review

Bélanger, N.N. Lee, M. & **Schotter, E.R.** (revision in prep). Young skilled deaf readers have an enhanced perceptual span in reading. *Quarterly Journal of Experimental Psychology*

Schotter, E.R., Leininger, M., & von der Malsburg, T. (in prep). When your mind ignores what your eyes see: How forced fixations lead to comprehension illusions in reading.

Schotter, E.R., Li, C., Gu, Y., & Gollan, T.H. (in prep). Differences in orthography do not suppress language intrusion errors in reading aloud: Evidence from Chinese-English bilinguals.

Lee, M. & **Schotter, E.R.** (in prep). The effect of color and preview availability on eye fixations in reading.

Invited Talks and Symposia

Schotter, E.R. (2017 - invited). Linguistic and Mechanistic Pressures on the Reading System: Eye Movement Data and Theory. *Florida Center for Reading Research, Tallahassee, Florida.*

Schotter, E.R., Li, C., & Gollan, T.H. (2016). Eye Movements Reveal Monitoring of Uncorrected Intrusion Errors in Reading Aloud: Evidence from Chinese-English Bilinguals. *China International Conference on Eye Movements, Changchun, China.*

Schotter, E.R. (2015). Semantic preview benefit in reading. *Symposium in Memory of Keith Rayner: European Conference on Eye Movements, Vienna, Austria.*

Schotter, E.R. (2015). Eye tracking methods for the behavioral scientist. *Center for Experimental Social Science: Experimental Economics Seminar, New York University, New York, NY.*

Schotter, E.R. (2015). Word processing across the visual field. *Rank Prize Funds Symposium on Visual Aspects of Reading, Grasmere, UK.*

- Schotter, E.R.** (2014). Reconceptualizing preview benefit effects in reading. *China International Conference on Eye Movements, Beijing, China.*
- Schotter, E.R.** (2014). Speed reading? You've gotta be Spritzin' me. *Center for Research in Language and Psychology Cognitive Brownbag, UC San Diego, San Diego, CA*
- Schotter, E.R.** (2013). Semantic preview benefit in reading: Type of semantic relationship matters. *Center for Research in Language, UC San Diego, San Diego, CA*
- Schotter, E.R.** (2012). How your brain is better than spell check: Cognitive processing in reading and proofreading. *Graduate Talk Series, Psychology Department, UC San Diego, San Diego, CA*
- Schotter, E.R.,** Ferreira, V.S. & Rayner, K. (2010). Parallel processing and information flow in multiple object naming. *China International Conference on Eye Movements, Tianjin, China.*
- Schotter, E.R.** (2009). Parallel extrafoveal processing and multiple object naming. *Behavioural Brain Sciences Group, University of Birmingham, UK.*

Spoken Presentations

- Schotter, E.R.,** Leinenger, M., & von der Malsburg, T. (2017-accepted). Parafoveal and foveal information serve different purposes in reading: Parafoveal is used for saccade programming, foveal for comprehension. *CUNY Conference on Human Sentence Processing, Cambridge, MA.*
- Schotter, E.R.,** & Leinenger, M. (2016). Dissociating influences of parafoveal and foveal information on reading: Forced fixations and comprehension. *Meeting of the Psychonomic Society, Boston, MA.*
- Schotter, E.R.,** & Leinenger, M. (2015). The curious case of the reverse preview benefit effect in reading. *Meeting of the Psychonomic Society, Chicago, IL.*
- Schotter*, E.R.,** (2014). Toward a new theory of reading: Independent and joint effects of context, parafoveal preview, and foveal information. *Meeting of the Psychonomic Society, Long Beach, CA. *Select Speaker Award*
- Schotter, E.R.** (2013). Synonyms provide semantic preview benefit in English: Data and a theoretical framework. *European Conference on Eye Movements, Lund, Sweden.*
- Schotter, E.R.,** Ferreira, V.S. & Rayner, K. (2010). Only to-be-named objects are semantically processed during multiple object naming. *Meeting of the Psychonomic Society, St. Louis, MO*
- Schotter, E.R.,** Ferreira, V.S. & Rayner, K. (2009). Parallel processing in an object naming task: tests of timing, location specificity and task relevance. *European Conference on Eye Movements, Southampton, UK.*
- Schotter, E.R.,** Ferreira, V.S. & Rayner, K. (2009). Timing of extrafoveal processing in multiple object naming: A test of serial and parallel processing. *Meeting of the Experimental Psychology Society, York, UK.*
- Schotter, E.R.** (2008). Extrafoveal processing of multiple objects in an array: Evidence for parallel processing. *Little American Psychology Society Meeting, Psychology Department, UC San Diego*
- Schotter, E.R.** (2007). Going from *dip* to *dipped* and *ding* to *dinged*, the influence of phonological neighbors. *Psychology Department PSYmposium, Washington University in St. Louis*

Poster Presentations

2013

Schotter, E.R. (2013). Constraints on semantic preview benefit. *Meeting of the Psychonomic Society, Toronto, Canada*

2012

Schotter, E.R., Bicknell, K., Levy, R. & Rayner, K. (2012). Eye movements in reading and proofreading: Modulating frequency and predictability effects. *Meeting of the Psychonomic Society, Minneapolis, MN*

Schotter, E.R. & Rayner, K. (2012). Semantic preview benefit may be observed in English: The importance of initial letter capitalization (and display change delay). *Meeting of the Psychonomic Society, Minneapolis, MN*

Angele, B., Rayner, K., **Schotter, E.R.**, & Bicknell, K. (2012). Do readers obtain preview benefit from transposed words in English? *Annual Meeting of the Psychonomic Society, Minneapolis, MN, USA.*

Cohen-Shikora, E.R., **Schotter, E.R.**, Balota, D.A. & Yap, M.J. (2012). Speeded past tense verb generation: An ironic effect of consistency. *Annual Meeting of the Psychonomic Society, Minneapolis, MN, USA.*

Schotter, E.R., Bicknell, K., Levy, R. & Rayner, K. (2012). The effects of task on frequency and predictability effects. *CUNY Conference on Human Sentence Processing, New York, NY*

Angele, B., Rayner, K., **Schotter, E.R.**, & Bicknell, K. (2012). Do readers obtain preview benefit from transposed words in English? *CUNY Conference on Human Sentence Processing, New York, NY, USA.*

2011

Schotter, E.R., Ferreira, V.S. & Rayner, K. (2011). Object identification for naming multiple objects: Semantic access is serial. *Meeting of the Psychonomic Society, Seattle, WA, USA*

Juhasz, B.J., **Schotter, E.R.**, & Rayner, K. (2011). The effect of semantically opaque affixed words on eye movements during reading. *Annual Meeting of the Psychonomic Society, Seattle, WA, USA.*

Angele, B., Slattery, T.J., Chaloukian, T.L., **Schotter, E.R.**, & Rayner, K. (2011). Dissociating effects of parafoveal lexical processing from effects of the sentence context. *Annual Meeting of the Psychonomic Society, Seattle, WA, USA.*

Schotter, E.R., Ferreira, V.S. & Rayner, K. (2011). Object identification for naming multiple objects: Semantic access is serial. *Architectures and Mechanisms for Language Processing. Paris, France*

Schotter, E.R., Ferreira, V.S. & Rayner, K. (2011). Eye movements during multiple object naming reflect the gating of information by attention. *European Conference on Eye Movements, Marseille, France.*

Wang, H.-C., Angele, B., **Schotter, E.R.**, Yang, J., Simovici, D., Pomplun, M., & Rayner, K. (2011). Singular value decomposition is a valid predictor of stroke importance in reading Chinese. *European Conference on Eye Movements, Marseille, France.*

Angele, B., Slattery, T.J., Chaloukian, T.L., **Schotter, E.R.**, & Rayner, K. (2011). Dissociating effects of parafoveal preprocessing from effects of the sentence context. *CUNY Conference on Human Sentence Processing, Palo Alto, CA, USA.*

2010

Schotter, E.R., Blythe, H.I., Kirkby, J.A., Liversedge, S.P. & Rayner, K. (2010). Binocular coordination: Reading stereoscopic sentences in depth. *Meeting of the Vision Sciences Society, Naples, FL*

2009

Schotter, E.R., Berry, R. McKenzie, C.R.W. & Rayner, K. (2009). Does looking behavior predict choice? *Annual Meeting of the Psychonomic Society, Boston, MA, USA.*

Schotter, E.R., Ferreira, V.S. & Rayner, K. (2009). The timing and extent of parallel processing in an object naming task. *Architectures and Mechanisms for Language Processing, Barcelona, Spain.*

Schotter, E.R., Berry, R. McKenzie, C.R.W. & Rayner, K. (2009). The Interaction of encoding mechanisms and decision criteria on eye movements in a visual decision making task. *European Conference on Eye Movements, Southampton, UK.*

2008

Schotter, E.R., Ferreira, V.S. & Rayner, K. (2008). Extrafoveal processing of multiple objects in an array: Evidence for parallel processing. *Annual Meeting of the Psychonomic Society, Chicago, IL, USA.*

2007

Schotter, E.R. (2007). Going from *dip* to *dipped* and *ding* to *dinged*, the influence of phonological neighbors. *Psychology Department Honors Thesis Poster Session and the Undergraduate Research Symposium, Washington University in St. Louis*

Ad-hoc Reviewer

American Journal of Psychology

Attention, Perception & Psychophysics (2)

Bilingualism: Language and Cognition

Cognition (3)

Cognitive, Affective, and Behavioral Neuroscience

Cognitive Science

International Journal of Artificial Intelligence in Education

Journal of Applied Research in Memory and Cognition

Journal of Cognitive Psychology (2)

Journal of Experimental Psychology: Human Perception and Performance (3)

Journal of Experimental Psychology: Learning, Memory and Cognition (8)

Journal of Memory and Language (2)

Journal of Neuroscience, Psychology, and Economics

Journal of Vision

Language, Cognition, and Neuroscience

Language Learning

Memory & Cognition (2)

National Institutes of Health

Psychonomic Bulletin & Review (4)

PLOS ONE

Quarterly Journal of Experimental Psychology (7)

Visual Cognition (3)

Selected Undergraduate Students Supervised

Co-authors (see above):

Raymond Berry, Cainen Gerety, Joanne Gomez, Ian Howard, Annie Jia, Michelle Lee, Mayra Murillo, Michael Reiderman, Tara Tenenbaum, Randy Tran

Honors & Independent Projects (Student Presentations):

Emily Barker: Barker, E.R., Leinenger, M., & Schotter, E.R. (2016). Investigating Processing, Strategy, and Accuracy in Sight Singing. *UCSD Psychology Honors Poster Session, San Diego, CA*

Ian Howard: Howard, I., Schotter, E.R., Bicknell, K., Levy, R., & Rayner, K. (2013). Humans Demonstrate Cognitive Flexibility Responding to Predictability: Evidence from Eye Movements. *UCLA Psychology Undergraduate Research Conference, Los Angeles, CA*

Yumeng (Rainy) Gu: Gu, Y., Schotter, E.R., Gollan, T., & Rayner, K. (2015). Cross-Language Intrusion Errors in Chinese-English Bilinguals. *UCSD Psychology Honors Poster Session, San Diego, CA*

Samantha Itaya: Itaya, S., Schotter, E.R., Zlatarev, J., & Rayner, K. (2011). The Stroop effect is not due to interference during identification: Evidence from eye movements. *UCLA Psychology Undergraduate Research Conference, Los Angeles, CA*

Tara Tenenbaum (née Chaloukian): Chaloukian, T.L., Angele, B., Slattery, T.J., Schotter, E.R., & Rayner, K. (2011). Reading with a parafoveal mask. *UC Berkeley Psychology Undergraduate Research Conference, Berkeley, CA*

Randy Tran: Tran, R., Schotter, E.R., & Rayner, K. (2012). The effects of regressions in reading. *UCSD Undergraduate Research Conference, San Diego, CA*

Stephanie Yi: Yi, S., Schotter, E.R., & Rayner, K. (2014). Involvement of conscious control during reading. *UC Berkeley Psychology Undergraduate Research Conference, Berkeley, CA* and *UCSD Psychology Honors Poster Session, San Diego, CA*

Teaching Experience

- Experimental Design & Analysis (USF: FA 2016, SP 2017)
- Psychology of Language (USF: SP 2017; UCSD: FA 2013, WI 2013, co-instructor with Keith Rayner)
- Workshop: Academic Writing and Publication (Chinese Academy of Sciences, 2014 & 2016; co-instructor with Bernhard Angele)
- Lab: Psycholinguistics and Cognition (UCSD: SP 2013, FA 2012, SP 2012, FA 2011, SP 2011)
- General Psychology: Cognitive Foundations (UCSD: SU 2010)
- Undergraduate Independent Study (UCSD: WI 2008-SP 2016; 24 quarters)

Service

2016-2017	USF Psychology Department Awards & Scholarships Committee
2012-2013	UCSD Psi Chi Society guest speaker; Science outreach at the Preuss School
2011-2012	UCSD Psychology Department Graduate Student Representative
2010-2011	UCSD Psychology Department Colloquium Series Representative

Professional Affiliations and Memberships

2014-present Fellow of the Psychonomic Society (Member 2014-2015)

References

Distinguished Professor Keith Rayner (deceased—please contact Victor Ferreira)
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