

# LAUREN M. SINGER TRAKHMAN

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## EDUCATIONAL BACKGROUND

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PhD	Human Development and Quantitative Methodology University of Maryland, College Park, MD <i>Specialization:</i> Educational Psychology <i>Dissertation:</i> Reading in Print and Digitally: Profiling and Intervening in Undergraduates' Multimodal Text Processing, Comprehension, and Calibration <i>Advisor:</i> Dr. Patricia A. Alexander	Anticipated May 2019
BS	Bachelor of Science, Educational Psychology Schreyer Honors College Pennsylvania State University, University Park, PA <i>Thesis:</i> Analysis of at Risk Middle School Students' Errors When Solving Fractions <i>Advisor:</i> Dr. Rayne A. Sperling	2013
BS	Bachelor of Science, Special Education Schreyer Honors College Pennsylvania State University, University Park, PA	2013

## RESEARCH INTERESTS

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Text based learning  
Multi-medium and multimodal text processing  
Cognitive and metacognitive strategies  
Relational reasoning

## HONORS AND AWARDS

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Charles Beaumont Dissertation Fellowship Award in Human Development and Quantitative Methodology	2018-2019
University of Maryland College of Education Scholarship	2016-2017
Department of Human Development and Quantitative Methodology Travel Awards	2014-2018
Jacob T. Goldhaber Travel Awards	2014, 2016
Outstanding Poster Award, Finalist American Education Research Association, Division C	2015
Adele H. Stamp Student of the Year, Finalist	2014
Panhellenic Council, New Woman of the Year	2009

## RESEARCH EXPERIENCES

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<i>Disciplined Reading and Learning Research Laboratory</i> Department of Human Development and Quantitative Methodology University of Maryland, College Park, MD	2013-Present
<ul style="list-style-type: none"> <li>• Developed and tested validation of the Verbal Test of Relational Reasoning<sup>©</sup></li> <li>• Contributed to the development of the Test of Relational Reasoning, Jr.<sup>©</sup></li> <li>• Developed systematic coding scheme for real-time processing data</li> <li>• Collected data from over 200 undergraduates</li> <li>• Analyzed data using SPSS, R, and MPlus</li> </ul>	
Department of Educational Psychology Pennsylvania State University, University Park, PA	2010-2013
<ul style="list-style-type: none"> <li>• Collected data from undergraduate participants</li> <li>• Scored measures of metacognition and math skills</li> <li>• Trained K-3 Teachers on metacognition intervention</li> </ul>	
<i>Project SIESTA: Study of Infants' Emergent Sleep Trajectories</i> Department of Human Development and Family Studies Pennsylvania State University, University Park, PA	2009-2010
<ul style="list-style-type: none"> <li>• Captured video data of parents and infants in their home</li> <li>• Scored and coded video and print data</li> <li>• Trained incoming Research Assistants on lab procedures</li> </ul>	

**TEACHING EXPERIENCES**

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Department of Extended Studies University of Maryland, College Park, MD UNIV100: The Student in the University Instructor of Record	2015-2017
Department of Educational Psychology Pennsylvania State University, University Park, PA Teaching Assistant EdPSY14: Learning and Instruction Instructor of Record: Dr. Robert Stevens	2011-2013
Department of Mathematics Pennsylvania State University, University Park, PA Guided Study Group Teacher MATH200: Problem Solving in Mathematics Instructor of Record: Dr. Darla Forsha	2009-2012
Department of Special Education State College Area School District, State College, PA Pre-Service Teacher	2009-2013

**EDITORIAL AND REVIEW EXPERIENCES**

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Student Associate Editor <i>Translational Issues in Psychological Science: Special Issue on Metacognition</i> <ul style="list-style-type: none"><li>• Provide recommendations for manuscripts for publication</li><li>• Organize the manuscript review process</li><li>• Correspond with authors and reviewers</li></ul>	2018-Present
Editorial Assistant <i>Contemporary Educational Psychology</i> <ul style="list-style-type: none"><li>• Provided support to Senior Editor and Associate Editors</li><li>• Monitored the editorial process</li><li>• Corresponded with editorial board members, authors, and reviewers</li><li>• Prepared annual reports</li><li>• Coordinated annual meeting of the editorial board</li></ul>	2013-Present
Ad Hoc Reviewer <ul style="list-style-type: none"><li>• <i>Contemporary Educational Psychology</i></li><li>• <i>Journal of Computer Assisted Learning</i></li><li>• <i>Journal of Experimental Education</i></li></ul>	2014-Present

- *Learning and Individual Differences*
- *Reading and Writing*
- *Scandinavian Journal of Education Research*

## PROFESSIONAL EXPERIENCES

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| Consultant   | 2016-Present |
| <i>Discovery Education</i>   |              |
| <ul style="list-style-type: none"><li>• Conducted literature review on digital textbook usage</li><li>• Incorporated findings from literature review into action plan for Discovery Education</li><li>• Prepared materials for K-12 teachers on effective technology usage</li><li>• Trained K-12 teachers on teaching with technology</li><li>• Reviewed new digital materials for best practices</li></ul> |              |
| Coordinator  | 2013-Present |
| <i>How to Get Published Workshop</i> for the American Educational Research Association   |              |
| <ul style="list-style-type: none"><li>• Organized and coordinated annual professional development workshop</li><li>• Communicated with instructors and course participants</li><li>• Incorporated evaluations to improve course</li></ul>  |              |
| Research Assistant Supervisor  | 2014-Present |
| <i>Disciplined Reading and Learning Research Laboratory</i>  |              |
| Mentored undergraduate research assistants in:   |              |
| <ul style="list-style-type: none"><li>• Data collection and coding</li><li>• Audio transcription</li><li>• Study design</li><li>• Academic writing</li></ul>   |              |
| Learning Associate Mentor  | 2014-2016    |
| <i>Veteran Student Life</i>  |              |
| Mentored undergraduates in:  |              |
| <ul style="list-style-type: none"><li>• Programming</li><li>• Data collection</li><li>• Statistical analyses</li></ul>   |              |

## PUBLICATIONS

- Singer Trakhman, L. M.,** Alexander, P.A., & Silverman, A. B. (2018). Profiling reading in print and digital mediums. *Learning and Instruction*, 57, 5-17.  
doi.org/10.1080/00220973.2017.1411877
- Singer Trakhman, L. M.,** Alexander, P.A., & Berkowitz, L. E. (2017). Effects of processing time on comprehension and calibration in print and digital mediums. *Journal of Experimental Education*. Advance online publication.  
doi.org/10.1080/00220973.2017.1411877
- Alexander, P. A., & **Singer Trakhman, L. M.** (2017, October). The enduring power of print for learning in a digital world. *The Conversation*. <https://theconversation.com/the-enduring-power-of-print-for-learning-in-a-digital-world-84352>  
Reprinted in various news services and newspapers including CNN, Business Insider, Salon, and World Economic Forum.
- Singer, L. M.,** & Alexander, P.A. (2017). Reading on paper and digitally: What the past decades of empirical research reveal. *Review of Educational Research*, 87(6), 1007-1041.  
doi.org/10.3102/0034654317722961  
*Media Coverage:* O'Malley, S. (2017, August 16). 'There's No Easy Answer'. *Inside Higher Ed*. <https://www.insiderhighered.com/digital-learning/article/2017/08/16/which-better-reading-print-or-screen>
- Singer, L. M.,** & Alexander, P.A. (2017). Reading across mediums: Effects of reading digital and print texts on comprehension and calibration. *Journal of Experimental Education*, 85(1), 155-172. doi.org/10.1080/00220973.2016.1143794  
*Media Coverage:* Wallis, C. (2017, August 23). A textbook dilemma: Digital or paper? *The Hechinger Report*. <http://hechingerreport.org/textbook-dilemma-digital-paper/>
- Alexander, P. A., **Singer, L. M.,** Jablansky, S., & Hattan, C. (2016). Relational reasoning in figure and word. *Journal of Educational Psychology*, 108(8), 1140-1152.  
doi.org/10.1037/edu0000110
- Alexander, P. A., Jablansky, S., **Singer, L. M.,** & Dumas, D. (2016). Relational reasoning: What we know and why it matters. *Policy Insights from Behavioral and Brain Sciences*. 3(1), 36 - 44. doi.org/10.1177/2372732215622029
- Dumas, D, Alexander, P.A., & **Singer, L. M.,** (2015). Analyzing historical patterns, examining current trends, and forecasting change in the field of educational psychology: A cross-cultural perspective. *Knowledge Cultures*, 3, 7-23.
- Hattan, C., **Singer, L. M.,** Loughlin, S., & Alexander, P. A., (2015). Prior knowledge activation in design and in practice. *Literacy Research: Theory, Method, and Practice*, 64(1), 478-497. doi.org/10.1177/2381336915617603

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**MANUSCRIPTS SUBMITTED**

**Singer Trakhman, L. M.** (2018). Comprehension and calibration of print and digital texts: What educators need to know. *Impact: Journal of the Chartered College of Teaching*. (revision under review)

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**MANUSCRIPTS IN PREPARATION**

**Singer Trakhman, L. M.**, Alexander, P. A., Sun, Y., & Silverman, A. B. (2018). *The effects of processing multimodal texts in print and digitally on students' comprehension and calibration*. Manuscript in preparation.

Alexander, P. A., & **The Disciplined Reading and Learning Research Laboratory** (in preparation). Relational reasoning: The bedrock of integration within and across multiple representations, documents, and perspectives. In P. van Meter, A. List, P. Kendeou, & D. Lombardi (Eds.), *Handbook of Learning from Multiple Representations and Perspectives*. New York: Routledge.

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**NATIONAL AND INTERNATIONAL PRESENTATIONS**

**Singer Trakhman, L. M.**, Alexander, P.A., Sun, Y., & Silverman, A. B. (2019, April). *The effects of processing multimodal texts in print and digitally on students' comprehension and calibration*. Paper accepted for presentation at the annual meeting of the American Educational Research Association, Toronto, Canada.

Fusenig, J., **Singer Trakhman, L. M.**, & Alexander, P.A. (2019, April). *Putting words to pictures: Defining and categorizing the range of static visuals in multimodal research*. Paper accepted for presentation at the annual meeting of the American Educational Research Association, Toronto, Canada.

**Singer Trakhman, L. M.**, & Alexander, P.A. (2018, April) *Reading on paper or digitally: What the past decades of empirical research reveal*. In J. M. Kulikowich (Chair), *Reading in the digital age: Affordances and consequences for learning, judgment, and performance*. Symposium presented at the annual meeting of the American Educational Research Association, New York.

**Singer, L. M.**, & Alexander, P.A. (2017, August) *Real time reading*. In B. Lehman (Chair), *Is seeing like reading? Examining strategy use across modalities*. Symposium presented at the annual meeting of the Society for Text and Discourse, Philadelphia.

**Singer, L. M., & Alexander, P.A.** (2016, April) *Effects of processing time on calibration and comprehension in print and digital mediums*. Paper presented at the annual meeting of the American Educational Research Association, Washington, DC.

Grossnickle, E. M., & **Singer, L. M.** (2016, April) *Students' preferences for and use of sources across print and digital mediums*. Paper presented at the annual meeting of the American Educational Research Association, Washington, DC.

Jablansky, S., Alexander, P. A., & **Singer, L. M.** (2016, April). *Examining the relational reasoning capabilities of elementary and middle-school students with learning needs*. Paper presented at the annual meeting of the American Education Research Association, Washington, DC.

**Singer, L. M., & Alexander, P.A.** (2015, April) *Reading across mediums*. Paper presented at the annual meeting of the American Educational Research Association, Chicago.

**Singer, L. M.,** Alexander, P. A., Jablansky, S., & Hattan, C. (2015, April). *Relational reasoning in figure and word*. Poster presented at the annual meeting of the American Educational Research Association, Chicago.

Hattan, C., **Singer, L. M.,** Loughlin, S., & Alexander, P. A. (2014, December). *Prior knowledge activation in design and in practice*. Paper presented at the annual meeting of the Literacy Research Association, Marco Island, FL.

List, A., Musu-Gillette, L. E., **Singer, L. M.,** Dumas, D., & Lee, K. (2014, August). *Hands on stats: A guide to basic statistical analyses*. Workshop presented at the annual meeting of the American Psychological Association, Washington, DC.

## REGIONAL AND LOCAL PRESENTATIONS

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**Singer, L. M., & Alexander, P. A.** (2017, February). *Reading on paper or digitally: What the past decades of empirical research reveal*. Paper presented at the Educational Psychology Colloquium, University of Maryland, College Park, MD.

Hattan, C., **Singer, L. M.,** Loughlin, S & Alexander, P. A. (2014, May). *Prior knowledge activation in design and in practice*. Paper presented at the Educational Psychology Colloquium, University of Maryland, College Park, MD.

**Singer, L. M.** (2013, December). *Race to Nowhere: Panel discussion and viewing*. Presented for the College of Education Graduate Student Organization, University of Maryland, College Park, MD.

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**ORGANIZATIONAL AND PROFESSIONAL SERVICES**

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Human Development Graduate Student Organization	
Department of Human Development and Quantitative Methodology	
Member	2014-Present
President	2014-2016
American Psychological Association, Division 15 Graduate Student Committee	
Member	2014-Present
College of Education Graduate Student Organization	
Department Representative	2013-2016
Veteran Student Life	
Graduate Coordinator	2014-2016
Graduate Student Government	
Director of Operations	2013-2014

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**PROFESSIONAL MEMBERSHIPS**

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American Educational Research Association, Division C  
American Psychological Association, Division 15  
Society for Text and Discourse

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**COMMUNITY AND VOLUNTEER WORK**

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Jewish Community Center of Baltimore  
Maryland Society for the Protection of Animals (MDSPCA)  
Moveable Feast



**References**

Dr. Patricia Alexander  
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Dr. Daniel Dinsmore  
Associate Professor, University of North Florida  
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