

LAUREN M. SINGER TRAKHMAN

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APPOINTMENTS

Assistant Clinical Professor July 2019- Present
Department of Human Development and Quantitative Methodology
College of Education
University of Maryland, College Park

EDUCATIONAL BACKGROUND

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	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

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

RESEARCH EXPERIENCES

- Disciplined Reading and Learning Research Laboratory* 2013-2019
 Department of Human Development and Quantitative Methodology
 University of Maryland, College Park, MD
- Developed and tested validation of the Verbal Test of Relational Reasoning[©]
 - Contributed to the development of the Test of Relational Reasoning, Jr.[©]
 - Developed systematic coding scheme for real-time processing data
 - Collected data from over 200 undergraduates
 - Analyzed data using SPSS, R, and MPlus
- Department of Educational Psychology 2010-2013
 Pennsylvania State University, University Park, PA
- Collected data from undergraduate participants
 - Scored measures of metacognition and math skills
 - Trained K-3 Teachers on metacognition intervention
- Project SIESTA: Study of Infants' Emergent Sleep Trajectories* 2009-2010
 Department of Human Development and Family Studies
 Pennsylvania State University, University Park, PA
- Captured video data of parents and infants in their home
 - Scored and coded video and print data
 - Trained incoming Research Assistants on lab procedures

EDITORIAL AND REVIEW EXPERIENCES

- Guest Associate Editor 2018-2020
Translational Issues in Psychological Sciences
 Special Issue on Metacognition
- Ad Hoc Reviewer
- *Canadian Journal of Learning and Technology*
 - *Computers and Education*
 - *Contemporary Educational Psychology*
 - *Cyberpsychology: Journal of Psychosocial Research on Cyberspace*
 - *Journal of Experimental Education*

- *Learning and Individual Differences*
- *Reading and Writing*
- *Scientific Studies of Reading*
- *Review of Educational Research*
- *SAGE Open*
- *AERA Open*

Editorial Assistant 2013-2019

Contemporary Educational Psychology

- Provided support to Senior Editor and Associate Editors
- Monitored the editorial process
- Corresponded with editorial board members, authors, and reviewers
- Prepared annual reports
- Coordinated annual meeting of the editorial board

PROFESSIONAL EXPERIENCES

Consultant 2016-2019

Discovery Education

- Conducted literature review on digital textbook usage
- Incorporated findings from literature review into action plan for Discovery Education
- Prepared materials for K-12 teachers on effective technology usage
- Trained K-12 teachers on teaching with technology
- Reviewed new digital materials for best practices

Coordinator 2013-2019

How to Get Published Workshop for the American Educational Research Association

- Organized and coordinated annual professional development workshop
- Communicated with instructors and course participants
- Incorporated evaluations to improve course

Research Assistant Supervisor 2014-2019

Disciplined Reading and Learning Research Laboratory

Mentored undergraduate research assistants in:

- Data collection and coding
- Audio transcription
- Study design
- Academic writing

Learning Associate Mentor 2014-2016

Veteran Student Life

Mentored undergraduates in:

- Programming

- Data collection
- Statistical analyses

PUBLICATIONS

Singer Trakhman, L. M., Alexander, P. A., Sun, Y., & Silverman, A. B. (2022). *The effects of processing multimodal texts in print and digitally on students' comprehension and calibration*. Revision under review. *Journal of Experimental Education*.

Singer Trakhman, L. M. (2019). Comprehension and calibration of print and digital texts: What educators need to know. *Impact: Journal of the Chartered College of Teaching*, 1, 1-9.

Alexander, P. A., & **The Disciplined Reading and Learning Research Laboratory.** (2019). Relational reasoning: The bedrock of integration within and across multiple representations, documents, and perspectives. In Van Meter, P. N., List, A., Lombardi, D., & Kendeou, P. (Eds.), *Handbook of learning from multiple representations and perspectives*. New York: Routledge.

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

MANUSCRIPTS IN PREPARATION

Singer Trakhman, L. M., Alexander, P. A., (2022). Reading in Print and Digitally: Profiling and Intervening in Undergraduates' Multimodal Text Processing, Comprehension, and Calibration. *Manuscript in preparation*.

Fusenig, Jannah, Alexander, P. A. & **Singer Trakhman, L. M.**, (2022). Testing the Validity of the Multimedia principles of Learning in Digital Environments. *Manuscript in preparation*.

NATIONAL AND INTERNATIONAL PRESENTATIONS

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

- 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.

TEST DEVELOPMENT (COPYRIGHTED)

Alexander, P. A., & **The Disciplined Reading and Learning Research Laboratory** (2015).
Test of Relational Reasoning-Junior. College Park, MD: University of Maryland.

Alexander, P. A., & **The Disciplined Reading and Learning Research Laboratory** (2014).
Verbal Test of Relational Reasoning. College Park, MD: University of Maryland.

COMMENTARY/INTERVIEWS IN PUBLIC MEDIA

Singer Trakhman, L. M. (2021, November). Reading digitally versus a book (Kasper Kloch, Interviewer), *Bogmagasinet*.

Singer Trakhman, L. M. (2021, September) Paper vs. E-ink vs. LED: Does the display affect how well we absorb information? *Digital Trends*.

Singer Trakhman, L. M. & Alexander, P. A. (2021, August) Reading Digitally vs. in Print: Dr. Lauren Trakhman & Dr. Patricia Alexander (Susan Lambert, Host). *The Science of Reading*.

Singer Trakhman, L. M. (2021, February 9) Oh the Places They'll Go? The Best Ways for Children to Read in an Increasingly Digital World (Pam Hurst-Della Pietra, Interviewer) *Children and Screens*.

Singer Trakhman, L. M. (2020, November 6) Reading on Paper and Screens: 6 Subtle Differences (Meri Melkonyan, Interviewer) *Bookmate*.

Singer Trakhman, L. M. (2020, July 28) Reading on Paper Versus Screens: What's the Difference? (Kerry Benson, Interviewer) *Brain Facts*

Singer Trakhman, L. M. (2020, April 2) How to Keep Kids Learning (and Parents Happy). (Annie Dankelson, Interviewer) *Maryland Today*.

Singer Trakhman, L. M. (2019, December 9) The Best of Both Worlds. (Ben Hargreaves, Interviewer) *Biofore*.

Singer Trakhman, L. M. (2019, November 13) Interview with Lauren Singer Trakhman, PhD, Assistant Clinical Professor at the University of Maryland, College Park. (Matthew Ashare, Interviewer) *Online Education.com*

Singer Trakhman, L. M. (2019, August 8) The Radical Transformation of the Textbook. (Brian Barrett, Interviewer) *Wired*.

GRANTS

Teaching Innovation Grant: ECE Cluster
University of Maryland

2020

PI, \$15,000

Teaching Innovation Grant: Dr. Min Wang/EDHD425 2020

University of Maryland

PI, \$16,000

Teaching Innovation Grant: Human Development Undergraduate Program 2020

University of Maryland

\$39,000

COURSES TAUGHT

University of Maryland, College Park

EDHD201: Learning How to Learn (2020, 25 students)

EDHD221: Aggression & Violence: Can Violence be Prevented? (2020, 50 students; 2021, 50 students; 2022, 50 students)

EDHD412: Infant Development (2019, 40 students; 2020, 80 students; 2021, 80 students)

EDHD425: Language Development & Acquisition (2020, 20 students)

EDHD460: Educational Psychology (2021, 40 students)

EDHD692: Cognitive Basis of Instruction (2021, 14 students)

EDHD703: Source Selection, Multimedia, & Misinformation: How Students Learn to Navigate Evidence in the 21st Century (2022, 14 students)

UNIV100: The Student in the University (2016, 30 students)

Towson University

ELED 200: The Elementary School Child as a Learner (2019, 40 students)

COURSES AND CURRICULUM DEVELOPMENT

Off-Campus Cohort M.Ed. in Human Development (MCHD) 2019-2020

Directed curriculum update for the Off-Campus Cohort M.Ed. in Human Development (MCHD) program, including revising/adding/removing courses to better align with department expertise and Maryland State Department of Education changes to teacher preparation curricula.

EDHD 703: Source Selection, Multimedia, & Misinformation: How Students Learn to Navigate Evidence in the 21st Century 2019-2020

Created new course that introduces graduate students to how evidence is acquired, produced, and used to make inferences and draw conclusions across the world. Topics include selective trust, source selection, navigating multiple mediums and modalities, epistemic cognition, scientific reasoning, motivated cognition, and confirmation bias.

DEPARTMENTAL RESOURCES**Online Course Delivery and Content Consultant** 2019-Present

Develop departmental resources for online course preparation and support faculty with online course delivery, including conceptual translation of face-to-face content into equivalent course content toward the goal of sustaining department standards for academic rigor in both delivery formats. Support faculty's use of instructional technology resources in the department, as well as facilitate faculty's access to support services from campus units, e.g., Division of Information Technology and Teaching and Learning Transformation Center.

Media Studio Manager 2019-Present

Serve as liaison for departments DIY media studio, which includes pre- and post-production assistance, scheduling, and training of faculty and students in the department.

Student Course Experience Surveys 2020-Present

Working with Dr. Jennie Lee-Kim to create surveys on HDQM courses as they transitioned online then back to in-person formats during the COVID-19 pandemic. Analyze data and disseminate findings to department and college community in order to improve course delivery during the ever-changing pandemic.

ORGANIZATIONAL AND PROFESSIONAL SERVICES

College of Education, University of Maryland, College Park
College Senate
Senator 2021-Present

Department of Human Development & Quantitative Methodology 2020-Present

Diversity and Inclusion Committee (Formerly Anti-Racism Committee) Member	
College of Education, University of Maryland, College Park COREJ Member	2020-Present
Department of Human Development & Quantitative Methodology HD Undergraduate Committee Chair	2020- 2021
Department of Human Development & Quantitative Methodology Executive Board Member	2019-Present
Department of Human Development & Quantitative Methodology University of Maryland, College Park Department Climate Committee Member	2020- 2021
College of Education, University of Maryland, College Park Faculty Technology Fellows Member	2019- Present
University of Maryland, College Park Teaching & Learning Transformation Center Faculty Liaison	2019- Present
Human Development Graduate Student Organization Department of Human Development and Quantitative Methodology Member	2014-2019
	2014-2016
American Psychological Association, Division 15 Graduate Student Committee Member	2014-2019
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

ADVISING**Masters Students**

Alyssa Berrios	Expected 2023
Kimberly Burgess	Expected 2023
Freidricka Camille	Expected 2023
Lauren Clarke	Expected 2023
Kristina Elliott	Expected 2023
Iris Gamez	Expected 2023
Lisa Gerds	Expected 2023
Jennifer Herrera	Expected 2023
Laura Lund	Expected 2023
Changsha Ma	Expected 2023
Toni Madrid	Expected 2023
Laura Penn	Expected 2023
Brenna Wilson	Expected 2023
Jennifer Wright	Expected 2023

HONORS AND AWARDS

Department of Human Development & Quantitative Methodology 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 2015
American Education Research Association, Division C

Adele H. Stamp Student of the Year, Finalist 2014

Panhellenic Council, New Woman of the Year 2009

PROFESSIONAL MEMBERSHIPS

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