

CURRICULUM VITAE

CHRISTOPHER L. ZERR

Department of Psychological and Brain Sciences, Washington University in St. Louis

One Brookings Dr., CB 1125, St. Louis, MO 63130

Email: c.l.zerr@wustl.edu | Phone: 314-255-7447 | www.christopherzerr.com

EDUCATION

- Ph.D.** Washington University in St. Louis 2021
Psychological & Brain Sciences
Advisor: Kathleen B. McDermott
Dissertation: Examining individual differences in forgetting from long-term memory
Committee: Mark A. McDaniel, Ian G. Dobbins, Michael J. Strube, Carl F. Craver
- A.M.** Washington University in St. Louis 2017
Psychological & Brain Sciences
- B.Sc.** Truman State University 2015
Psychology with Honors, Statistical Methods
Valedictorian, Summa Cum Laude

AWARDS & HONORS

- American Psychological Association Dissertation Award 2020
AAAS/Science Program for Excellence in Science 2019
American Psychological Foundation COGDOP William C. Howell Scholarship 2018
National Science Foundation Graduate Research Fellowship Program (GRFP) Award 2016
Omicron Delta Kappa Student Hall of Fame 2014
Truman Leadership Full-Ride Scholarship 2011 – 2015
Missouri Bright Flight Scholarship 2011 – 2015
President's List, Truman State University 2011 – 2015

PUBLICATIONS

- Wertsch, J. V., Roediger, H. L., III, & **Zerr, C. L.** (in press). Collective memory: Conceptual foundations and theoretical approaches. In D. Wehrs (Ed.), *Cultural memory*.
- Zerr, C. L.**, Spaventa, T., & McDermott, K. B. (2021). Are efficient learners of verbal stimuli also efficient and precise learners of visuospatial stimuli? *Memory*, 29, 675-692.
- Shaffer, F., Meehan, Z. M., & **Zerr, C. L.** (2020). A critical review of ultra-short-term heart rate variability norms research. *Frontiers in Neuroscience*, 14, 1-11.

- McDermott, K. B., & Zerr, C. L. (2019). Individual differences in learning efficiency. *Current Directions in Psychological Science*, 28, 607-613.
- Zerr, C. L., Berg, J. J., Nelson, S. M., Fishell, A. K., Savalia, N. K., & McDermott, K. B. (2018). Learning efficiency: Identifying individual differences in learning rate and retention in healthy adults. *Psychological Science*, 29, 1436-1450.
- Thraillkill, E. A., Trott, J. M., Zerr, C. L., & Bouton, M. E. (2016). Contextual control of chained instrumental behaviors. *Journal of Experimental Psychology: Animal Learning and Cognition*, 42(4), 401-414. <http://dx.doi.org/10.1037/xan0000112>
- Shaffer, F., & Zerr, C. L. (2016). Depressive Disorders. In G. Tan, F. Shaffer, R. Lyle, & I. Teo (Eds.), *Evidence-based practice in biofeedback and neurofeedback* (3rd ed.) (pp. 57-61). Wheat Ridge, CO: Association for Applied Psychophysiology and Biofeedback.
- Shaffer, F., McCraty, R., & Zerr, C. L. (2014). A healthy heart is not a metronome: An integrative review of the heart's anatomy and heart rate variability. *Frontiers in Psychology*, 5, 1-19. doi: 10.3389/fpsyg.2014.01040

MANUSCRIPTS IN PREPARATION

- Zerr, C. L., & McDermott, K. B. (in prep). Learning rate predicts forgetting rate.
- Zerr, C. L., Anderson, N. L., Shaffer, R. A., Gilmore, A. W., & McDermott, K. B. (in prep). Characterizing activity in the parietal memory network during a continuous recognition task.

PRESENTATIONS

- Zerr, C. L. (2020). *How the rate we learn relates to the rate we forget*. Invited talk at the Cognitive, Computational, and Systems Neuroscience [CCSN] retreat at Washington University in St. Louis, MO.
- Zerr, C. L., & McDermott, K. B. (2018). *Quick to learn, slow to forget: Faster learners retain more*. Poster presented at the 2018 Psychonomic Society Annual Meeting in New Orleans, LA.
- Zerr, C. L. (2018). *Learning rates and forgetting rates (...and testing effect confounds)*. Talk presented at the Washington University in St. Louis Behavior, Brain, and Cognition datablitz in St. Louis, MO.
- Zerr, C. L. (2017). *Learning efficiency*. Talk presented at the Washington University in St. Louis Behavior, Brain, and Cognition datablitz in St. Louis, MO.
- Zerr, C. L. (2015). *Investigating psychometric properties of a learning efficiency task within healthy young adults*. Talk presented at the Washington University in St. Louis Behavior, Brain, and Cognition datablitz in St. Louis, MO.
- Zerr, C. L., & Bouton, M. E. (2014). *Role of context in controlling performance and extinction of a heterogeneous behavior chain*. Poster presented at the University of

- Vermont Summer Neuroscience Undergraduate Research Fellowship Symposium, Burlington, VT.
- Zerr, C. L.,** Fluty, E., & Cangelosi, A. (2014). *Are blanketing and stem artifacts real?* Poster presented at the 2014 Biofeedback Federation of Europe international conference, Venice, Italy.
- Zerr, C. L.,** Fluty, E., & Cangelosi, A. (2014). *Inhalation-to-exhalation ratio affects HRV training success.* Poster presented at the 2014 Biofeedback Federation of Europe international conference, Venice, Italy.
- Zerr, C. L.,** & Allen, J. (2014). *The use of device-guided breathing in the treatment of hypertension: A meta-analytic review.* Poster presented at the Truman State University Psychological Research Capstone Symposium, Kirksville, MO.
- Zerr, C. L.,** Bussen, S., & Nyquist, E. (2014). *Meanings and values of “better” and “worse” moods.* Poster presented at the Truman State University Student Research Conference, Kirksville, MO.
- Zerr, C. L.** (2013). *Galectin-3 inhibition reduces TGF- β 1-induced structural and electrical of the atria during persistent atrial fibrillation in sheep.* Paper presented at the University of Michigan Cardiovascular Summer Research Fellowship Symposium, Ann Arbor, MI.
- Zerr, C. L.** (2013). *Can heartfelt emotion attenuate the autonomic effects of a math stressor?* Paper presented at the 2013 Association for Applied Psychophysiology and Biofeedback national conference, Portland, OR.
- Zerr, C. L.** (2013). *Can heartfelt emotion facilitate autonomic recovery from a math stressor?* Paper presented at the 2013 Association for Applied Psychophysiology and Biofeedback national conference, Portland, OR.
- Zerr, C. L.** (2013). *Do the left and right hands differ in responsiveness to experimental stressors?* Paper presented at the 2013 Association for Applied Psychophysiology and Biofeedback national conference, Portland, OR.
- Zerr, C. L.** (2012). *Does adding heartfelt emotion to resonance frequency breathing increase heart rate variability?* Paper presented at the 2012 Association for Applied Psychophysiology and Biofeedback national conference, Baltimore, MD.
- Zerr, C. L.** (2012). *Does heartfelt emotion increase heart rate variability?* Paper presented at the 2012 Association for Applied Psychophysiology and Biofeedback national conference, Baltimore, MD.
- Zerr, C. L.** (2012). *Can ujjayi breathing increase the effectiveness of 6-bpm heart rate variability training?* Paper presented at the 2012 Association for Applied Psychophysiology and Biofeedback national conference, Baltimore, MD.

RESEARCH EXPERIENCE

Memory and Cognition Laboratory, Washington University in St. Louis Graduate Student PI: Kathleen B. McDermott, PhD	2015 – Present
Center for Applied Psychophysiology, Truman State University Laboratory Manager PI: Fredric Shaffer, PhD	2011 – 2015
Clinical Psychosocial Laboratory, Truman State University	2013 – 2015

Undergraduate Researcher
 PI: Jeffrey R. Vittengl, PhD

Learning and Behavioral Neuroscience Laboratory, University of Vermont Summer 2014
 Summer Neuroscience Undergraduate Research Fellowship
 PI: Mark E. Bouton, PhD

Center for Arrhythmia Research, University of Michigan Summer 2013
 Undergraduate Research Fellow
 PI: José Jalife, MD

PROFESSIONAL EXPERIENCE

Center for Applied Statistics and Evaluation (CASE), Statistical Consultant 2012 – 2015
 Truman State University
 Supervisors: Hyun-Joo Kim, PhD, and Scott Alberts, PhD

TEACHING EXPERIENCE

Teaching Assistant

Human Memory and Learning, Washington University in St. Louis Fall 2017
 Cognitive Neuroscience, Washington University in St. Louis Spring 2017
 Experimental Psychology, Truman State University 2014 – 2015
 Psychological Research Capstone, Truman State University 2014

MENTOR EXPERIENCE

Kira Harris 2020 – 2021
 Project title: Parietal memory network activity during a continuous recognition task

Heather Elliott 2019 – 2021
 Honors thesis: Beliefs about how sleep affects memory impact judgments of learning
 (JOLs): Evidence that people can make belief-based JOLs

Hannah C. Becker, current Psychology PhD student at the University of Michigan 2016 – 2018
 Honors thesis: Individual differences in efficient learning: The relative contributions of
 attentional control and working memory capacity

Justin Vincent 2015 – 2018
 Honors thesis: Learning efficiency: Is it generalizable? Is it durable?

STUDENT INVOLVEMENT

AAAS, Student Member 2019 – Present
 Psychological & Brain Sciences Faculty Search Committee, Student Member 2018
 Psychonomic Society, Student Member 2015 – Present

Association for Psychological Science, Student Member	2014 – Present
Dean’s Student Advisory Committee, Truman State University	2014 – 2015
Vice President of Academic Affairs Ambassador	2014
Psi Chi International Honor Society in Psychology, President	2013 – 2015
Order of Omega, Greek Leadership Society	2014
National Society of Collegiate Scholars	2012

TECHNICAL & COMPUTER SKILLS

Expertise with R, SPSS, JASP, GraphPad Prism, Microsoft Office, Apple iWork; proficiency in coding with JavaScript, jsPsych, MySQL, HTML/PHP, Python, PsychoPy; competence in MATLAB, AFNI fMRI analysis software.

PROFESSIONAL REFERENCES

Kathleen B. McDermott, PhD, Professor of Psychological & Brain Sciences, Radiology
 Department of Psychological & Brain Sciences, Radiology
 Psychology Building CB1125
 Washington University in St. Louis
 St. Louis, MO 63130
 Phone: 314-935-8892
 Email: kathleen.mcdermott@wustl.edu

Henry L. Roediger, III, PhD, James S. McDonnell Distinguished University Professor
 Department of Psychological & Brain Sciences
 Psychology Building CB1125
 Washington University in St. Louis
 St. Louis, MO 63130
 Phone: 314-935-4307
 Email: roediger@wustl.edu

Mark A. McDaniel, PhD, Professor of Psychological & Brain Sciences, Director of the Center for Integrative Research on Cognition, Learning, and Education (CIRCLE)
 Department of Psychological & Brain Sciences
 Psychology Building CB1125
 Washington University in St. Louis
 St. Louis, MO 63130
 Phone: 314-935-8030
 Email: markmcdaniel@wustl.edu

Ian G. Dobbins, PhD, Professor of Psychological & Brain Sciences
 Department of Psychological & Brain Sciences
 Psychology Building CB1125
 Washington University in St. Louis
 St. Louis, MO 63130
 Phone: 314-935-7345

Email: idobbins@wustl.edu

Fredric Shaffer, PhD, Professor of Psychology

Department of Psychology

Barnett Hall 2400G

Truman State University

Kirksville, MO 63501-1820

Phone: 660-785-4667

Email: fredricshaffer@gmail.com

Mark E. Bouton, PhD, Professor of Psychology, Assistant Director for the Neuroscience
Graduate Program

Department of Psychological Science

Dewey Hall 354

University of Vermont

Burlington, VT 05405-0134

Phone: 802-656-4164

Email: mark.bouton@uvm.edu