

CURRICULUM VITAE

CHRISTOPHER L. ZERR

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EDUCATION

- Ph.D.** Washington University in St. Louis Expected August 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

- Zerr, C. L.**, Spaventa, T., & McDermott, K. B. (2021). Are efficient learners of verbal stimuli also efficient and precise learners of visuospatial stimuli? *Memory*. doi: [10.1080/09658211.2021.1933039](https://doi.org/10.1080/09658211.2021.1933039)
- 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 Undergraduate Researcher PI: Jeffrey R. Vittengl, PhD	2013 – 2015

Learning and Behavioral Neuroscience Laboratory, University of Vermont Summer Neuroscience Undergraduate Research Fellowship PI: Mark E. Bouton, PhD	Summer 2014
Center for Arrhythmia Research, University of Michigan Undergraduate Research Fellow PI: José Jalife, MD	Summer 2013

PROFESSIONAL EXPERIENCE

Center for Applied Statistics and Evaluation (CASE), Statistical Consultant Truman State University Supervisors: Hyun-Joo Kim, PhD, and Scott Alberts, PhD	2012 – 2015
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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 Project title: Parietal memory network activity during a continuous recognition task	2020 – 2021
Heather Elliott Honors thesis: Beliefs about how sleep affects memory impact judgments of learning (JOLs): Evidence that people can make belief-based JOLs	2019 – 2021
Hannah C. Becker, current Psychology PhD student at the University of Michigan Honors thesis: Individual differences in efficient learning: The relative contributions of attentional control and working memory capacity	2016 – 2018
Justin Vincent Honors thesis: Learning efficiency: Is it generalizable? Is it durable?	2015 – 2018

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

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