

Keith B. Lyle – Curriculum Vitae

Curriculum Vitae

Keith B. Lyle

University of Louisville
Dept. of Psychological and Brain Sciences
Louisville, KY 40292

Voice: (502) 852-7096
Fax: (502) 852-8904
Email: keith.lyle@louisville.edu

Education

- 2005 Ph.D. in Cognitive Psychology; Yale University; Advisor: Marcia K. Johnson
2002 M.A. in Cognitive Psychology; Yale University; Advisor: Marcia K. Johnson
1998 B.S. in Psychology with Highest Distinction; Indiana University

Postdoctoral Training

- 2005-2007 Postdoctoral Fellowship at Washington University in Saint Louis with Dr. Mark A. McDaniel and Dr. Henry L. Roediger, III

Professional Experience

University of Louisville

- 2013-present Associate Professor, Dept. of Psychological and Brain Sciences
2007-2013 Assistant Professor, Dept. of Psychological and Brain Sciences

Indiana University

- 1998-1999 Research Assistant, Memory and Attention Lab, Dr. Richard M. Shiffrin
1998-1999 Research Assistant, Tactile Sensitivity Lab, Dr. James C. Craig
1997-1998 Research Assistant, Alcohol and Anti-Sociality Lab, Dr. Peter R. Finn

Honors and Awards

- 2009 Victor A. Olorunsola Endowed Research Award for Young Scholars
2004-2005 Yale University Dissertation Writing Fellowship
2000-2003 National Science Foundation Graduate Research Fellowship
1997 Phi Beta Kappa, Indiana University
1997 Honors Division Senior Achievement Award, Indiana University

Courses Frequently Taught

Undergraduate

Cognitive Processes, Human Memory, Quantitative Methods in Psychology

Graduate

Human Memory, Cognitive Neuroscience

Keith B. Lyle – Curriculum Vitae

Research Interests

Source monitoring; laterality and handedness; memory enhancement; memory errors and distortions; brain mechanisms of memory; cognitive aging; applying cognitive psychology to education

Publications

Leppanen, M. L., Lyle, K. B., Edlin, F. M., & Schäfke, V. D. (2019). Is self-report a valid measure of unimanual object-based task performance? *Laterality*, *24*, 538-558.

Barone, M. J., Li, X., Winterich, K. P., & Lyle, K. B. (2018). Social-spatial effects in pricing: When and how vertical orientations shape processing of price comparisons. *Customer Needs and Solutions*, *5*, 137-145.

Lyle, K. B. (2018). Effects of handedness consistency and saccade execution on eyewitness memory in cued- and free-recall procedures. *Memory*, *26*, 1169-1180.

Leppanen, M. L., & Lyle, K. B. (2018). Making remembering more memorable. *Memory*, *26*, 960-973.

Grillo, M. C., Pupcenoks, J., & Lyle, K. B. (2018). Handedness and the neurocognitive foundations of public attitudes about international laws and norms. *Politics and the Life Sciences*, *37*, 1-15.

Newton, T. L., Fernandez-Botran, R., Lyle, K. B., Szabo, Y. Z., Miller, J. J., & Warnecke, A. J. (2017). Salivary cytokine response in the aftermath of stress: An emotion regulation perspective. *Emotion*, *17*, 1007-1020.

Lyle, K. B., Dombroski, B. A., Faul, L., Hopkins, R. F., Naaz, F., Switala, A. E., & Depue, B. E. (2017). Bimanual coordination positively predicts episodic memory: A combined behavioral and MRI investigation. *Brain and Cognition*, *118*, 71-79.

Szabo, Y. Z., Newton, T. L., Miller, J. J., Lyle, K. B., & Fernandez-Botran, R. (2016). Acute stress induces increases in salivary IL-10 levels. *Stress*, *19*, 499-505.

Hopkins, R. F., Lyle, K. B., Hieb, J. L., & Ralston, P. A. S. (2016). Spaced retrieval practice increases college students' short- and long-term retention of mathematics knowledge. *Educational Psychology Review*, *28*, 853-873.

Hirst, W., Phelps, E. A., Buckner, R. L., Budson, A. E., Cuc, A., Gabrieli, J. D., Johnson, M. K., Lustig, C., Lyle, K. B., Mather, M., Meksin, R., Mitchell, K. J.,

Keith B. Lyle – Curriculum Vitae

Ochsner, K. N., Schacter, D. L., Simons, J. S., & Vaidya, C. J. A ten-year follow-up of a study of memory for the attack of September 11, 2001: Flashbulb memories and memories for flashbulb events. (2015). *Journal of Experimental Psychology: General*, 144, 604-623.

Barone, M. J., Lyle, K. B., & Winterich, K. P. (2015). When deal depth doesn't matter: How handedness influences consumer response to horizontal versus vertical price comparison. *Marketing Letters*, 26, 213-223.

Hieb, J. L., Lyle, K. B., Ralston, P. A. S., & Chariker, J. (2015). Predicting performance in a first engineering calculus course: Implications for interventions. *International Journal of Mathematical Education in Science and Technology*, 46, 40-55.

Lyle, K. B., & Edlin, J. M. (2015). Why does saccade execution increase episodic memory retrieval? A test of the top-down attentional control hypothesis. *Memory*, 23, 187-202.

Edlin, J. M., Leppanen, M. L., Fain, R. J., Hackländer, R. P., Hanaver-Torrez, S. D., & Lyle, K. B. (2015). On the use (and misuse?) of the Edinburgh Handedness Inventory. *Brain and Cognition*, 94, 44-51.

Lyle, K. B., & Grillo, M. C. (2014). Consistent-handers are more authoritarian. *Laterality*, 19, 146-163.

Edlin, J. M., Carris, E. K., & Lyle, K. B. (2013). Memory for hand use depends on consistency of handedness. *Frontiers in Human Neuroscience*, 7. doi: 10.3389/fnhum.2013.00555

Lyle, K. B., Chapman, L. K., & Hatton, J. M. (2013). Is handedness related to anxiety? New answers to an old question. *Laterality*, 18, 520-535.

Edlin, J. M., & Lyle, K. B. (2013). The effect of repetitive saccade execution on the attention network test: Enhancing executive function with a flick of the eyes. *Brain and Cognition*, 81, 345-351.

Lyle, K. B., Hanaver-Torrez, S. D., Hackländer, R. P., & Edlin, J. M. (2012). Consistency of handedness, regardless of direction, predicts baseline memory accuracy and potential for memory enhancement. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 38, 187-193.

Lyle, K. B., & Orsborn, A. E. (2011). Inconsistent handedness and saccade execution benefit face memory without affecting interhemispheric interaction. *Memory*, 19, 613-624.

Keith B. Lyle – Curriculum Vitae

Lyle, K. B., & Crawford, N. A. (2011). Retrieving essential material at the end of lectures improves performance on statistics exams. *Teaching of Psychology, 38*, 94-97.

Lyle, K. B., & Jacobs, N. E. (2010). Is saccade-induced retrieval enhancement a potential means of improving eyewitness evidence? *Memory, 18*, 581-594.

Lyle, K. B., & Martin, J. M. (2010). Bilateral saccades increase intrahemispheric processing but not interhemispheric interaction: Implications for saccade-induced retrieval enhancement. *Brain and Cognition, 73*, 128-134.

Butler, A. C., Zaromb, F. M., Lyle, K. B., & Roediger, H. L., III. (2009). Using popular films to enhance classroom learning: The good, the bad, and the interesting. *Psychological Science, 20*, 1161-1168.

Hirst, W., Phelps, E. A., Buckner, R. L., Budson, A. E., Cuc, A., Gabrieli, J. D., Johnson, M. K., Lustig, C., Lyle, K. B., Mather, M., Meksin, R., Mitchell, K. J., Ochsner, K. N., Schacter, D. L., Simons, J. S., & Vaidya, C. J. (2009). Long-term memory for the terrorist attack of September 11: Flashbulb memories, event memories, and the factors that influence their retention. *Journal of Experimental Psychology: General, 138*, 161-176.

McDaniel, M. A., Lyle, K. B., Butler, K. M., & Dornburg, C. C. (2008). Age-related deficits in reality monitoring of action memories. *Psychology and Aging, 23*, 646-656.

Lyle, K. B., McCabe, D. P., & Roediger, H. L., III. (2008). Handedness is related to memory via hemispheric interaction: Evidence from paired associate recall and source memory tests. *Neuropsychology, 22*, 523-530.

Lyle, K. B., Logan, J. M., & Roediger, H. L., III. (2008). Eye movements enhance memory for individuals who are strongly right-handed and harm it for individuals who are not. *Psychonomic Bulletin & Review, 15*, 515-520.

Lyle, K. B., & Johnson, M. K. (2007). Source misattributions may increase the accuracy of source judgments. *Memory & Cognition, 35*, 1024-1033.

Lyle, K. B., Bloise, S. M., & Johnson, M. K. (2006). Age-related binding deficits and the content of false memories. *Psychology and Aging, 21*, 86-95.

Lyle, K. B., & Johnson, M. K. (2006). Importing perceived features into false memories. *Memory, 14*, 197-213.

Lyle, K. B. & Johnson, M. K. (2004). Effects of verbalization on lineup face recognition in an interpolated inspection paradigm. *Applied Cognitive Psychology, 18*, 393-403.

Keith B. Lyle – Curriculum Vitae

Huber, D. E., Shiffrin, R. M., Lyle, K. B., & Quach, R. (2002). Mechanisms of source confusion and discounting in short-term priming 2: Effects of prime similarity and target duration. *Journal of Experimental Psychology: Learning Memory and Cognition*, *28*, 1120-1136.

Huber, D. E., Shiffrin, R. M., Quach, R., & Lyle, K. B. (2002). Mechanisms of source confusion and discounting in short-term priming 1: Effects of prime duration and prime recognition. *Memory & Cognition*, *30*, 745-757.

Craig, J. C., & Lyle, K. B. (2002). A correction and a comment on Craig and Lyle (2001). *Perception and Psychophysics*, *64*, 504-506.

Craig, J. C. & Lyle, K. B. (2001). A comparison of tactile spatial sensitivity on the palm and fingerpad. *Perception & Psychophysics*, *63*, 337-347.

Huber, D. E., Shiffrin, R. M., Lyle, K. B., & Ruys, K. I. (2001). Perception and preference in short-term word priming. *Psychological Review*, *108*, 149-182.

Papers In Press

Hopkins, R. F., & Lyle, K. B. Image-size disparity reduces difference detection in face matching. *Applied Cognitive Psychology*.

Lyle, K. B., Bego, C. R., Hopkins, R. F., Hieb, J. L., & Ralston, P. A. S. How the amount and spacing of retrieval practice affect the short- and long-term retention of mathematics knowledge. *Educational Psychology Review*.

Book Reviews

Lyle, K. B. (2010). Flashbulb Memories: New Issues and New Perspectives. *Memory Studies*, *3*, 440-441.

Conference Presentations

Arar, T., French, S., & Lyle, K. B. (2019). *Positive feedback changes subjective memory beliefs but not memory performance*. Poster presented at the thirty-first annual meeting of the Association for Psychological Science. Washington, D.C.

French, S., & Lyle, K. B. (2019). *Is manual flexibility a marker for mental flexibility? Handedness consistency and belief updating*. Poster presented at the thirty-first annual meeting of the Association for Psychological Science. Washington, D.C.

Keith B. Lyle – Curriculum Vitae

Hopkins, R. F., & Lyle, K. B. (2019). *The effect of interview format and metamemory instructions on quality of details*. Poster presented at the thirty-first annual meeting of the Association for Psychological Science. Washington, D.C.

Kelley, A. M., & Lyle, K. B. (2019). *Effects of handedness consistency and saccade execution on eyewitness memory in general and specific cued-recall procedures*. Poster presented at the thirty-first annual meeting of the Association for Psychological Science. Washington, D.C.

Lyle, K. B., Bego, C. R., Hopkins, R. F., Ralston, P. A., & Hieb, J. L. (2018). *Retrieval practice and spacing: Independent and additive effects on precalculus learning*. Paper presented at the fifty-ninth annual meeting of the Psychonomic Society. New Orleans, LA.

Hopkins, R. F., Lyle, K. B., Ralston, P. A., Bego, C. R., & Hieb, J. L. (2018). *Retrieval practice and spacing: Effects on long-term learning among engineering precalculus students*. Poster presented at the one-hundred-twenty-five American Society for Engineering Education Annual Conference and Exposition, Salt Lake City, UT.

Hopkins, R. F., Pinkston, M., & Lyle, K. B. (2017). *Why are people less accurate when answering follow-up questions than when freely recalling a criminal event?* Poster presented at the fifty-eighth annual meeting of the Psychonomic Society. Vancouver, Canada.

Lyle, K. B., Leppanen, M. L., & Depue, B. E. (2017). *Unimanual dexterity positively predicts children's episodic memory: A behavioral and neuroimaging investigation*. Paper presented at the fifty-eighth annual meeting of the Psychonomic Society. Vancouver, Canada.

Bego, C. R., Lyle, K. B., Ralston, P. A., & Hieb, J. L. (2017). *Retrieval practice and spacing in an engineering mathematics classroom: Do the effects add up?* Paper presented at the forty-seventh annual Frontiers in Education Conference. Indianapolis, IN.

Hopkins, R. F., & Lyle, K. B. (2017). *How to get away with using fake IDs: Higher prevalence of different trials leads to more errors*. Poster presented at the twenty-ninth annual meeting of the Association for Psychological Science. Boston, MA.

Lyle, K. B. (2017). *Who remembers best? Degree of handedness predicts individual differences in episodic memory*. Paper presented at the twenty-ninth annual meeting of the Association for Psychological Science. Boston, MA.

Lyle, K. B., Depue, B. E., Dombroski, B. A., Switala, A. E., Hopkins, R. J., & Leppanen, M. L. (2016). *Bimanual coordination positively predicts episodic*

Keith B. Lyle – Curriculum Vitae

memory: A joint behavioral and neuroimaging investigation. Paper presented at the fifty-seventh annual meeting of the Psychonomic Society. Boston, MA.

Fain, R. J., & Lyle, K. B. (2015). *Don't blame the bartender: Image size disparity increases false face-matches.* Poster presented at the fifty-sixth annual meeting of the Psychonomic Society. Chicago, IL.

Leppanen, M. L., & Lyle, K. B. (2015). *Overt retrieval of study context eliminates the forgot-it-all-along effect.* Poster presented at the fifty-sixth annual meeting of the Psychonomic Society. Chicago, IL.

Fain, R. J., Hieb, J. L., Ralston, P. A. S., & Lyle, K. B. (2015). *Can the spacing effect improve the effectiveness of a math intervention course for engineering students?* Poster presented at the one-hundred-twenty-second American Society for Engineering Education Annual Conference and Exposition, Seattle, WA.

Fain, R. J., Lyle, K. B., Hieb, J. L., & Ralston, P. A. S. (2015). *Spaced retrieval practice increases retention of calculus in an engineering mathematics class.* Poster presented at the twenty-seventh annual meeting of the Association for Psychological Science. New York, NY.

Lyle, K. B., & Simpson, J. D. (2014). *Belief in learning styles increases miscalibration of JOLs.* Poster presented at the fifty-fifth annual meeting of the Psychonomic Society. Long Beach, CA.

Edlin, J. M., Van Stockum, C. A., DeCaro, M. S., & Lyle, K. B. (2014). *Bilateral saccade execution can impair working memory.* Poster presented at the fourth annual Midwest Cognitive Science Conference. Wright State University, OH.

Leppanen, M. L., Fain, R. J., Edlin, J. M., Hackländer, R. P., & Lyle, K. B. (2014). *How do researchers use the Edinburgh Handedness Inventory?* Poster presented at the eighty-sixth annual meeting of the Midwestern Psychological Association. Chicago, IL.

Szabo, Y. Z., Fernandez-Botran, R., Miller, J. J., Lyle, K. B., Newton, T. L. (2014). *Detection and stress reactivity of Interleukin-10 in oral fluids.* Poster presented at the seventy-second annual meeting of the American Psychosomatic Society. San Francisco, CA.

Grillo, M. C., & Lyle, K. B. (2014). *The impact of handedness consistency and need for cognitive closure on the authoritarian personality.* Paper presented at the seventy-second annual meeting of the Midwest Political Science Association. Chicago, IL.

Keith B. Lyle – Curriculum Vitae

Lyle, K. B., & Hackländer, R. P. (2013). *Seeing the truth: Saccade execution increases correct “true” responses on T/F history tests*. Poster presented at the fifty-fourth annual meeting of the Psychonomic Society. Toronto, Canada.

Lyle, K. B. & Edlin, J. M. (2012). *Look both ways before crossing memory lane: Bilateral saccades reduce retrieval-induced forgetting*. Poster presented at the fifty-third annual meeting of the Psychonomic Society. Minneapolis, MN.

Hackländer, R. P., & Lyle, K. B. (2012). *Where was that snake in the grass? Detecting versus remembering threatening stimuli*. Poster presented at the twenty-fourth annual meeting of the Association for Psychological Science. Chicago, IL.

Lyle, K. B. (2012). *Retrieve before you leave: End-of-lecture retrieval practice increases statistics exam performance*. Presentation given at the twenty-fourth annual meeting of the Association for Psychological Science. Chicago, IL.

Lyle, K. B., & Grillo, M. C. (2012). *The cognitive neuroscience of authoritarianism: Is consistent handedness a marker for authoritarian personality?* Paper presented at the seventieth annual meeting of the Midwest Political Science Association. Chicago, IL.

Cook, G. I., Merritt, P. S., & Lyle, K. B. (2011). *Metacognitive judgments may influence source memory, but metacognitive beliefs may not*. Poster presented at the fifty-second annual meeting of the Psychonomic Society. Seattle, WA.

Lyle, K. B., & Cole, A. B. (2011). *Identifying superior eyewitnesses: Handedness predicts eyewitness memory accuracy*. Poster presented at the fifty-second annual meeting of the Psychonomic Society. Seattle, WA.

Thibaudeau, T. A., Lyle, K. B., & Weinstein, Y. (2011). *How actions become associated with truth: Effects of performance, imagination, and reading*. Poster presented at the twenty-third annual meeting of the Association for Psychological Science. Washington, D.C.

Holmes, S. M., & Lyle, K. B. (2011). *Do the cerebral hemispheres cooperate to encode visual information? It may depend on handedness*. Poster presented at the twenty-third annual meeting of the Association for Psychological Science. Washington, D.C.

Baughman, P. G., & Lyle, K. B. (2011). *Why students forget most of what they're taught, and what you can do about it*. Poster presented at the 2011 American Dental Education Association Annual Session & Exhibition. San Diego, CA.

Cook, G. I., Merritt, P. S., Lyle, K. B., & Rueschenberg, A. (2010). *Size still matters: Emotional valence contributes to JOLs without eliminating the encoding-*

Keith B. Lyle – Curriculum Vitae

fluency effect caused by font size. Poster presented at the fifty-first annual meeting of the Psychonomic Society. Saint Louis, MO.

Edlin, J. M., & Lyle, K. B. (2010). *Increasing executive control with a flick of the eyes.* Poster presented at the fifty-first annual meeting of the Psychonomic Society. Saint Louis, MO.

Lyle, K. B., Edlin, J. M., Hanaver-Torrez, S. D., & Hackländer, R. P. (2010). *Consistency of hand preference, regardless of direction, predicts baseline memory performance and potential for enhancement.* Poster presented at the fifty-first annual meeting of the Psychonomic Society. Saint Louis, MO.

Hackländer, R. P., & Lyle, K. B. (2010). *Do all bilateral motor movements enhance memory retrieval?: A test of the interhemispheric interaction hypothesis.* Poster presented at the eighty-second annual meeting of the Midwestern Psychological Association. Chicago, IL.

Hanaver-Torrez, S. D., & Lyle, K. B. (2010). *Can repetitive saccadic eye movements enhance mental rotation?: It depends on sex and handedness.* Poster presented at the eighty-second annual meeting of the Midwestern Psychological Association. Chicago, IL.

Lyle, K. B., & Jacobs, N. E. (2009). *Saccade-induced retrieval enhancement: A fast, easy, and free way to improve eyewitness memory?* Poster presented at the fiftieth annual meeting of the Psychonomic Society. Boston, MA.

Eidson, R. C., & Lyle, K. B. (2008). *Mental rotation ability depends on both sex and gender identity.* Poster presented at the forty-ninth annual meeting of the Psychonomic Society. Chicago, Illinois.

Edlin, J. M., & Lyle, K. B. (2008). *Repetitive vertical saccades improve procedural memory.* Poster presented at the twentieth annual meeting of the Association for Psychological Science. Chicago, Illinois.

Lyle, K. B. (2008). *Saccade-induced retrieval enhancement depends on whether information is intentionally or incidentally encoded.* Poster presented at the twentieth annual meeting of the Association for Psychological Science. Chicago, Illinois.

Lyle, K. B., McDaniel, M. A., Young, A. S., & Heyden, R. J. (2007). *High-tech textbooks: Do dynamic visual displays and interactivity increase learning?* Poster presented at the forty-eighth annual meeting of the Psychonomic Society, Long Beach, California.

Lyle, K. B., McDaniel, M. A., & Roediger, H. L., III. (2007). *Further evidence that testing memory increases acceptance of misinformation.* Poster presented at

Keith B. Lyle – Curriculum Vitae

the nineteenth annual meeting of the Association for Psychological Science, Washington, D.C.

Lyle, K. B., Logan, J. M., & Roediger, H. L., III. (2006). *Does moving your eyes before a memory test enhance performance?* Poster presented at the forty-seventh annual meeting of the Psychonomic Society, Houston, Texas.

Lyle, K. B., McCabe, D. P., Heitman, J. L., & Roediger, H. L., III. (2006). *Handedness, memory, and aging.* Poster presented at the eighteenth annual meeting of the Association for Psychological Science, New York, New York.

Lyle, K. B., & Johnson, M. K. (2005). *More detailed real memories can give rise to more detailed false memories.* Poster presented at the forty-sixth annual meeting of the Psychonomic Society, Toronto, Canada.

Lyle, K. B., & Johnson, M. K. (2005). *False-accurate memories: When source-monitoring failure improves source memory.* Paper presented at the seventy-seventh annual meeting of the Midwestern Psychological Association, Chicago, Illinois.

Lyle, K. B., & Johnson, M. K. (2004). *Perception may be a more dangerous source of false memories than imagination.* Paper presented at the sixteenth annual meeting of the American Psychological Society, Chicago, Illinois.

Lyle, K. B., Bloise, S. M., & Johnson, M. K. (2004). *Age-related binding deficits and false memories.* Poster presented at the sixteenth annual meeting of the American Psychological Society, Chicago, Illinois.

Raye, C. L., Mitchell, K. J., Lyle, K. B., Greene, E. J., & Johnson, M. K. (2004). *PFC activity and refreshing just-active information with and without a semantic cue.* Poster presented at the eleventh annual meeting of the Cognitive Neuroscience Society, San Francisco, California.

Lyle, K. B., & Johnson, M. K. (2003). *False memories acquire the content of real memories.* Poster presented at the fifteenth annual meeting of the American Psychological Society, Atlanta, Georgia.

Lyle, K. B. & Johnson, M. K. (2001). *The effects of interpolated verbal description on memory for study and test faces.* Paper presented at the seventy-third annual meeting of the Midwestern Psychological Association, Chicago, Illinois.

Huber, D. E., Shiffrin, R. M., Quach, R., & Lyle, K. B., (2000). *Preference for prime-related words in short-term priming: The effects of target duration and prime similarity.* Paper presented at the forty-first annual meeting of the Psychonomic Society, New Orleans, Louisiana.

Keith B. Lyle – Curriculum Vitae

Huber, D. E., Lyle, K. B., & Shiffrin, R. M. (1999). *Short-term priming: Data and a model for bias and interference*. Paper presented at the fortieth annual meeting of the Psychonomic Society, Los Angeles, California.

Huber, D. E., Lyle, K. B., & Shiffrin, R. M. (1999). *Short-term priming: Data and a model for bias and interference*. Paper presented at the thirty-second annual Mathematical Psychology Meeting, Santa Cruz, California.

Invited Talks

Department of Psychology, Washington University in Saint Louis, February 2014

Southeastern Workers in Memory Conference at the annual meeting of the Southeastern Psychological Association, March 2010

Department of Psychology, Davidson College, April 2009