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Georgia Institute of Technology
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EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY - ATLANTA, GA

Ph.D. Cognition and Brain Science Psychology
Advisor: Randall W. Engle

Expected Spring 2017

GEORGIA INSTITUTE OF TECHNOLOGY - ATLANTA, GA

M.S. Cognition and Brain Science Psychology
Advisor: Randall W. Engle

2013

FURMAN UNIVERSITY - GREENVILLE, SC

B.S. Psychology
Research Advisor: Gilles O. Einstein
Academic Advisor: Charles L. Brewer

2010

RESEARCH INTERESTS

- Working Memory
- The Relationship Between Working Memory Capacity and Intelligence
- Prospective Memory
- Genetics of Cognitive Ability

PUBLICATIONS

Shipstead, Z., **Harrison, T. L.**, & Engle, R. W. (2016). Working memory capacity and fluid intelligence: Maintenance and disengagement. *Perspectives in Psychological Science*, *11*, 771-799.

Tsukahara, J. S., **Harrison, T. L.**, & Engle, R. W. (2016). The relationship between baseline pupil size and intelligence. *Cognitive Psychology*, *91*, 109-123.

Hicks, K. L., **Harrison, T. L.**, & Engle, R. W. (2015). Wonderlic, working memory capacity, and fluid intelligence. *Intelligence*, *50*, 186-195.

Shipstead, Z., **Harrison, T. L.**, & Engle, R. W. (2015). Working memory capacity and the scope and control of attention. *Attention, Perception, & Psychophysics*, *77*, 1863-1880.

- Harrison, T. L.**, Shipstead, Z., & Engle, R. W. (2015). Why is working memory capacity related to matrix reasoning tasks?. *Memory & Cognition*, *43*, 389-396.
- Foster, J. L., Shipstead, Z., **Harrison, T. L.**, Hicks, K. L., Redick, T. S., & Engle, R. W. (2015). Shortened complex span tasks can reliably measure working memory capacity. *Memory & Cognition*, *43*, 226-236.
- Harrison, T. L.**, Shipstead, Z., & Engle, R. W. (2014). Taxonomy of transfer to cognitive abilities: The case of working memory training. In Lindsay, D. S., Kelley, C. M., Yonelinas, A. P., & Roediger, H. L. III (Eds.) *Remembering: Attributions, processes, and control in human memory: Papers in honour of Larry L. Jacoby* New York: Psychology Press.
- Harrison, T. L.**, Shipstead, Z., Hicks, K. L., Hambrick, D. Z., Redick, T. R., & Engle, R. W. (2013). Working memory training may increase working memory capacity but not fluid intelligence. *Psychological Science*, *24*, 2409-2419.
- Harrison, T. L.**, Mullet, H. G., Whiffen, K. N., Ousterhout, H., & Einstein, G. O. (2013). Prospective memory: Effects of divided attention on spontaneous retrieval. *Memory & Cognition*, *42*, 212-224.
- Scullin, M. K., **Harrison, T. L.**, Factor, S. A., & Bliwise, D. L. (2013). A Neurodegenerative disease sleep questionnaire: Principal component analysis in Parkinson's disease. *Journal of the Neurological Sciences*, *336*, 243-246.
- Redick, T. S., Shipstead, Z., **Harrison, T. L.**, Hicks, K. L., Fried, D. E., Hambrick, D. Z., & Engle, R. W. (2013). No evidence of intelligence improvement after working memory training: A randomized, placebo-controlled study. *Journal of Experimental Psychology: General*, *142*, 359-379.
- Einstein, G. O., Mullet, H. G., & **Harrison, T. L.** (2012). The testing effect: Illustrating a fundamental concept and changing study strategies. *Teaching of Psychology*, *39*, 190-193.
- Shipstead, Z., **Harrison, T. L.**, Engle, R. W. (2012). Working memory capacity and visual attention: Top-down and bottom-up guidance. *The Quarterly Journal of Experimental Psychology*, *64*, 401-407.
- Harrison, T. L.**, & Einstein, G. O. (2010). Prospective memory: Are preparatory attentional processes necessary for a single focal cue?. *Memory & Cognition*, *38*, 860-867.

MANUSCRIPTS UNDER REVIEW

Foster, J. L., **Harrison, T. L.**, Hicks, K. L., Draheim, C., Redick, T. S., & Engle, R. W. (Under Review). Do the effects of working memory training depend on baseline ability level?

Harrison, T. L., Hicks, K. L., Draheim, C., Tsukahara, J. S., & Engle, R. W. (Under Review). General discrimination ability: Why should performance on sensory tasks be related to cognitive ability?

Draheim, C., **Harrison, T. L.**, Embretson, S. E., & Engle, R. W. (Under Review). What item response theory can tell us about the complex span tasks?

Shipstead, Z., **Harrison, T. L.**, Trani, A. N., Redick, T. S., Sloan, P., Bunting, M. F., Hicks, K. L., Draheim, C., & Engle, R. W., (Under Review). Unitary working memory capacity and diverse executive functions: Integrating two perspective of individual difference in cognitive control.

MANUSCRIPTS IN PREPARATION

Harrison, T. L. (in prep). N-back as a measure of working memory capacity.

Harrison, T. L., Draheim, C., Tsukahara, J. T., Hicks, K. L., Redick, T. S., Shipstead, Z., & Engle, R.W. (in prep). The genetics of cognitive ability at the latent level.

CONFERENCE PRESENTATIONS & POSTERS

Harrison, T. L., Hicks, K. L., Draheim, C., Tsukahara, J. S., & Engle, R. W. (2016, November). Sensory discrimination, working memory, and fluid intelligence. Paper presented at the annual meeting of the Psychonomic Society, Boston, MA.

Harrison, T. L., & Engle, R. W. (2016, November). What can n-back tasks tell us about working memory capacity? Paper presented at the annual meeting of the Psychonomic Society, Boston, MA.

Tsukahara, J. S., **Harrison, T. L.**, & Engle, R. W. (2015, November). The eyes have it: The relationship between pupil size and intelligence. Paper presented at the annual meeting of the Psychonomic Society, Chicago, IL.

- Harrison, T. L.**, Shipstead, Z., Hicks, K. L., Foster, J. L., Trani, A. N., Sloan, P. M., Redick, T. S., Bunting, M. F. & Engle, R. W. (2014, November). The relationship between prospective memory and cognitive abilities. Poster presented at the annual meeting of the Psychonomic Society, Long Beach, CA.
- Foster, J. L., **Harrison, T. L.**, Hicks, K. L., Draheim, C., & Engle, R. W. (2014, November). High-span show bigger gains from training WMC than low-spans. Poster presented at the annual meeting of the Psychonomic Society, Long Beach, CA.
- Harrison, T. L.**, Hertzog, C., & Engle, R. W., (September, 2014). *The role of working memory capacity and fluid intelligence in the organization of memory*. Poster presented at the 7th biennial European Working Memory Symposium, Edinburgh, Scotland.
- Harrison, T. L.**, Shipstead, Z., & Engle, R. W. (2014, May). The relationship between prospective memory and cognitive abilities. Paper presented at the fourth International Conference of Prospective Memory, Naples, Italy.
- Harrison, T. L.**, Hertzog, C., & Engle, R. W. (2014, February). The role of working memory capacity and fluid intelligence in the organization of memory. Paper presented at the annual meeting of the Southern Society for Philosophy and Psychology, Charleston, SC.
- Harrison, T. L.**, Hertzog, C., & Engle, R. W. (2013, November). Is subjective organization related to working memory capacity and fluid intelligence? Poster presented at the annual meeting of the Psychonomic Society, Toronto, ON.
- Harrison, T. L.**, Shipstead, Z., Hicks, K. L., Redick, T. S., Hambrick, D. Z., & Engle, R. W. (2012, November). Does working memory training improve working memory capacity? Paper presented at the annual meeting of the Psychonomic Society, Minneapolis, MN.
- Harrison, T. L.**, Whiffen, J. W., Ware T. M., & Engle, R. W. (2012, November). Is working memory capacity related to the magnitude of the testing effect? Poster presented at the annual meeting of the Psychonomic Society, Minneapolis, MN.
- Redick, T. S., Hambrick, D. Z., Shipstead, Z., **Harrison, T. L.**, Hicks, K. L., & Engle R. W. (2011, November). Generalization of working memory training to complex cognition? Paper presented at the annual meeting of the Psychonomic Society, Seattle, WA.
- Harrison, T. L.**, Shipstead, Z., & Engle, R. W. (2011, November). Does novel rule use drive the relationship between working memory capacity and Raven's Advanced Progressive Matrices? Poster presented at the annual meeting of the Psychonomic Society, Seattle, WA.
- Harrison, T. L.**, Addington, K., & Einstein, G. O. (2010, November). Prospective memory: The effects of dividing attention on spontaneous retrieval. Poster session presented at the annual meeting of the Psychonomic Society, St. Louis, MO.

Harrison, T. L., & Einstein, G. O. (2009, November). Prospective memory: Is monitoring necessary?. Poster session presented at the annual meeting of the Psychonomic Society, Boston, MA.

TEACHING EXPERIENCE

INSTRUCTOR

GEORGIA INSTITUTE OF TECHNOLOGY – ATLANTA, GA

Instructor
Course: General Psychology Fall 2016

TEACHING ASSISTANT

GEORGIA INSTITUTE OF TECHNOLOGY – ATLANTA, GA

Teaching Assistant,
Course: Statistical Analysis 1 (Dr. James Roberts) Fall 2013

Teaching Assistant,
Course: Psychology of Aging (Dr. Chris Hertzog) Spring 2012

Guest Lecture – Gender and Sexual Development
Course: Human Development (Dr. Jarrod Hines)
Summer 2011

Guest Lecture – Longevity and Senescence
Course: Psychology of Aging (Dr. Chris Hertzog) Spring 2012

Guest Lecture – Health and Disease
Course: Psychology of Aging (Dr. Chris Hertzog) Spring 2012

Guest Lecture – Personality
Course: Psychology of Aging (Dr. Chris Hertzog) Spring 2012

FURMAN UNIVERSITY - GREENVILLE, SC

Teaching Assistant,
Course: Memory and Cognition (Dr. Gil Einstein) Spring 2010

Teaching Assistant,
Course: Research and Statistical Methods in Psychology (Dr. Charles Brewer) Spring 2010

Teaching Assistant,
Course: Research and Statistical Methods in Psychology (Dr. Erin Hahn) Fall 2009

HONORS & AWARDS

2015	Graduate Student of the Year Award
2014	Graduate Student Paper Award
2010	Charles L. Brewer Award
2009-2010	Furman Fellow
2007-2010	Achiever Scholarship
2006-2010	Furman Scholar