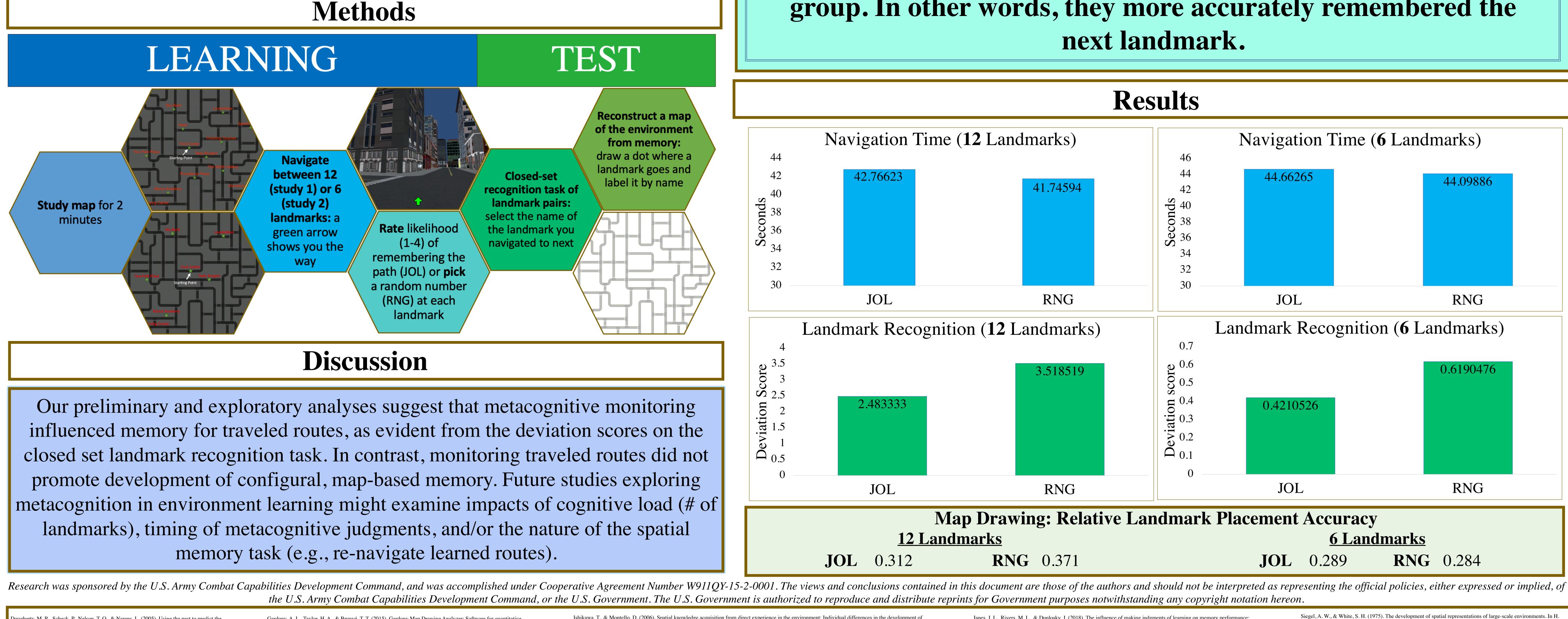


Imagine walking through Boston for the first time. You travel from the conference hotel to a restaurant. Would you be able to find your way back? Monitoring how we navigate through a new city seems crucial to learning the environment, yet it is an understudied phenomenon.

Environment Learning: developing spatial knowledge about one's surroundings Spatial Cognitive Microgenesis Framework: internal, spatial representations of a new environment consist of landmark, route, and survey knowledge Judgments of learning (JOLs): a metacognitive monitoring prediction of future retrievability



ougherty, M. R., Scheck, P., Nelson, T. O., & Narens, L. (2005). Using the past to predict the uture. Memory & Cognition, 33(6), 1096–1115. doi: 10.3758/bf03193216

Gardony, A. L., Taylor, H. A., & Brunyé, T. T. (2015). Gardony Map Drawing Analyzer: Software for quantitative analysis of sketch maps. Behavior Research Methods, 48(1), 151–177. doi: 10.3758/s13428-014-0556-x

Do Metacognitive Judgments Impact Environment Learning?

Lauren A. Mason¹, Ayanna K. Thomas¹, Tad Brunyé^{2,3}, Holly A. Taylor^{1,3} ¹Department of Psychology, Tufts University, Medford, MA, ²US Army CCDC-SC, Natick, MA, ³Center for for Applied Brain and Cognitive Sciences, Medford, MA

Ishikawa, T., & Montello, D. (2006). Spatial knowledge acquisition from direct experience in the environment: Individual differences in the development of metric knowledge and the integration of separately learned places \$\primes. Cognitive Psychology, 52(2), 93-129. doi: 10.1016/j.cogpsych.2005.08.003



Purpose: the present studies utilize a JOL-reactivity methodology to examine the role of metacognitive monitoring in environment learning

Hypothesis: participants in the JOL condition will have more accurate landmark memory, as measured by deviation scores, than participants in the RNG condition

Preliminary Findings: JOLs impact performance on a closed set landmark recognition task. Subjects in the JOL group showed smaller deviation scores as compared to those in the RNG group. In other words, they more accurately remembered the

Janes, J. L., Rivers, M. L., & Dunlosky, J. (2018). The influence of making judgments of learning on memory performance: Positive, negative, or both? *Psychonomic Bulletin & Review*, 25(6), 2356–2364. doi: 10.3758/s13423-018-1463-4

44.66265	11 00006	
	44.09886	
JOL	RNG	
ndmark Recognition (6 Landmarks)		
	0 6190476	

W. Reese (Ed.), Advances in child development and behavior (Vol. 10, pp. 9–55). New York: Academic Press.