

Kristina M. Rand

(801) 587-8081

Kristina.rand@psych.utah.edu



Spatial Learning

Visual Perception

Memory

Education

B.A., Psychology	University of Utah, Eugene, OR	2006
M.S., Cognitive Psychology	Montana State University, Bozeman, MT	2009
Ph.D., Cognitive Psychology	University of Utah, Salt Lake City, UT	2014

Employment

Adjunct Professor

Department of Psychology, University of Utah	
Department of Psychology, Westminster College	2014-2016

Postdoctoral Fellow

Department of Psychology, University of Utah	2015-2016
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Assistant Professor (Lecturer)

Department of Psychology, University of Utah	2016-present
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Selected Awards

College of Social & Behavioral Science Superior Teaching Award Finalist University of Utah	2016-2017
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College of Social & Behavioral Science Superior Teaching Award Recipient University of Utah	2019-2020
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APA Division 3 Early Career Award

Society for Experimental Psychology and Cognitive Science Journal of Experimental Psychology: Human Perception and Performance	2016
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Selected Publications

- Creem-Regehr, S. H., Barhorst-Cates, E. M., Tarampi, M. R., Rand, K. M., & Legge, G. E. (2021). How can basic research on spatial cognition enhance the visual accessibility of architecture for people with low vision?. *Cognitive Research: Principles and Implications*, 6(1), 1-18.
- Barhorst-Cates, E. M., Rand, K. M., & Creem-Regehr, S. H. (2020). Does active learning benefit spatial memory during navigation with restricted peripheral field?
- Whitaker, M. M., Pointon, G. D., Tarampi, M. R., & Rand, K. M. (2019). Expertise effects on the perceptual and cognitive tasks of indoor rock climbing. *Memory & cognition*, 1-17..
- Barhorst-Cates, E. M., Rand, K. M., & Creem-Regehr, S. H. (2019). Navigating with peripheral field loss in a museum: learning impairments due to environmental complexity. *Cognitive Research: Principles and Implications*, 4(41).
- Rand, K. M., Barhorst-Cates, E. M., Kiris, E., Thompson, W. B., & Creem-Regehr, S. H. (2018). Going the distance and beyond: simulated low vision increases perception of distance traveled during locomotion. *Psychological research*, 1-14.
- Nicora, G., Alonso, D., Rand, K., Creem-Regehr, S., & Drew, T. (2018). Exploring the utility of incidental fixations in dynamic real-world visual search through mobile eye tracking. *Journal of Vision*, 18(10), 650-650.
- Barhorst-Cates, E. M., Rand, K. M., & Creem-Regehr, S. H. (2017). Let me be your guide: physical guidance improves spatial learning for older adults with simulated low vision. *Experimental brain research*, 235(11), 3307-3317.
- Barhorst-Cates, E. M., Rand, K. M., & Creem-Regehr, S. H. (2016). The Effects of Restricted Peripheral Field-of-View on Spatial Learning while Navigating. *PLoS one*, 11(10).
- Rand, K. M., Thompson, W. B., & Creem-Regehr, S. H. (2015) Spatial learning while navigating with severely degraded viewing: The role of attention and mobility monitoring. *Journal of Experimental Psychology: Human Perception and Performance*, 41(3), 649-667.
- Rand, K. (2014). *Spatial Learning While Navigating with Severely Degraded Viewing: The Role of Attention and Risk Monitoring*. (Doctoral Dissertation).
- Creem-Regehr, S. H., Payne, B., & Rand, K. M. & Hansen, G. (2014). Scaling space with the mirror illusion: The influence of body plasticity on perceived affordances. *Psychonomic Bulletin & Review*, 21 (2), 398-405.
- Rand, K. M., Tarampi, M. R., Creem-Regehr, S. H. & Thompson, W. B. (2012). The influence of object ground contact on perception of distance and size under severely degraded vision. *Seeing and Perceiving*, 5(5), 425-447.
- Raj, M., Creem-Regehr, S. H., Rand, K. M., Stefanucci, J. K., & Thompson, W. B. (2012). Kinect based 3D object manipulation on a desktop display. In *Proceedings of the ACM Symposium on Applied Perception (SAP '12)*. ACM, New York, NY, USA, 99-102.
- Rand, K. M., Tarampi, M. R., Creem-Regehr, S. H., & Thompson, W. B. (2011). The importance of the visible horizon for distance judgments under severely degraded vision. *Perception*, 40(2), 143-154.
- Hutchison, K. A., Meade, M. L., & Rand, K. M. (2010). Effects of delay and additivity on implicit activation of DRM critical items in naming. *Journal of Memory and Language*, 62(3), 302-310.

Selected Presentations

Rand, K. M., Tarampi M. R., Whitaker, M., & Pointon, G. (2017, November). *The effect of expertise on motor sequence and visual memory for indoor rock climbing routes*. Poster presented at the Annual Meeting of the Psychonomics Society, Vancouver, BC.

Rand, K. M., Creem-Regehr, S. H., & Barhorst-Cates, E. M. (2016, August). *Overestimation of Distance Traveled with Degraded Vision : Evidence from Walking and Wheeling*. Poster presented at the Spatial Cognition conference series, Philadelphia, PA.

Rand, K. M., Creem-Regehr, S. H., & Thompson, W. B. (2015, November). *Estimates of distance traveled when walking with normal compared to degraded vision*. Poster presented at the Annual Meeting of the Psychonomics Society, Chicago, IL.

Rand, K., Creem-Regehr, S., & Thompson, W. B. (2014, June). *Spatial Learning While Navigating with Severely Degraded Viewing: The Role of Attention and Mobility Monitoring*. Talk presented at the Annual Summer Interdisciplinary Conference, Moab, UT.

Rand, K. M., Thompson, W. B. & Creem-Regehr, S. H. (2013, November). *Navigation With Severely Degraded Vision Requires Increased Attentional Demands: A Mobility-Related Safety Account*. Poster presented at the Annual Meeting of the Psychonomics Society, Toronto, Canada.

Rand, K., Thompson, W., & Creem-Regehr, S. (2012, November). *Degraded Viewing During Navigation of Novel Paths Impairs Global Spatial Representations*. Poster presented at the annual meeting of the Psychonomics Society, Minneapolis, MN.

Rand, K. M., Bakdash, J., Stefanucci, J. K., Creem-Regehr, S. H., & Gustafson, W. (2012). *Perceptual dependence of size and distance? A within subjects variability approach*. Poster presented at the 12th Annual Meeting of the Vision Sciences Society, Naples, FL.

Rand, K., Tarampi, M., Creem-Regehr, S., & Thompson, W. (2011, May). *The Influence of Object-Ground Contact on Perception of Distance and Size under Severely Degraded Vision*. Poster presented at the annual meeting of the Vision Science Society. Naples, FL.

Rand, K. M., Tarampi, M. R., Creem-Regehr, S. H., & Thompson, W. B. (2010, May). *The importance of the visible horizon for distance judgments under severely degraded vision*. Poster presented at the annual meeting of the Vision Science Society. Naples, FL.

Rand, K. M., & Hutchison, K. A. (2009, November). *The role of familiarity in prospective memory in older and younger adults*. Poster presented at the annual meeting of the Psychonomic Society. Boston, MA.

Teaching & Curriculum Development

PSY3150 Sensation and Perception

PSY 3140 Cognitive Psychology

PSY3711 Brain and Behavior

PSY 3171 Human Factors and Ergonomics

PSY 2120 Memory and Cognition in Everyday Life

PSY 4955 Human Factors Independent Project

Undergraduate Research Supervision

Nathaniel Caines	2019	Human Factors Certificate Mentor
Alexis Kunz	2018	Human Factors Certificate Mentor
Mirinda Whitaker	2017-2018	UROP Mentor
Eren Kiris	2015-2017	Undergraduate Research Supervisor

Departmental and University Service

Honors Thesis Faculty Advisor, Department of Psychology	2016-2017
Undergraduate Committee, Department of Psychology	2016-present
Human Factors Certificate Faculty Advisor, Department of Psychology	2017-present