

Katherine C. Moen, PhD

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Curriculum Vitae

Employment

The University of Nebraska at Kearney, Assistant Professor, August 2019-Present

Education

Louisiana State University, Ph.D. in Cognitive and Brain Sciences, August 2019

Dissertation: The Mechanism of Directed Forgetting in Visual Working Memory

Advisor: Dr. Melissa Beck

Seton Hall University, M.S. in Experimental Psychology, May 2014

Thesis: Selective Effects of Selective Attention

Advisor: Dr. Marianne Lloyd

South Dakota State University, B.S. in Psychology, May 2012

Senior Thesis: The Effects of False Statistics on Racially Based Judgments

Advisor: Dr. Debra Spear

Honors, Awards, and Achievements

- Trainee Professional Development Award, Society for Neuroscience, November 2018 (\$1,000)
- Dissertation Fellowship, Louisiana State University, August 2018-May 2019 (\$18,000)

Grants

- Nebraska EPSCoR Undergraduate Research Experience, June 2020-May 2021 (\$5,000)
- CANTAB Research Grant Award, April 2020 (Not awarded)
- Strategic Research Grant, Louisiana State University, November 2017 (\$1,000)
- Strategic Research Grant, Louisiana State University, November 2015 (\$600)

Peer-Reviewed Publications

Published

- Beck, M. R., Goldstein, R. R., **Moen, K. C.**, Cohen, A. S., & Wolshon, B. (In Press). The impact of talking, environment familiarity, and pedestrian predictability on driving behavior. *Transportation Research Part F: Psychology and Behaviour*
- **Moen, K. C.**, Beck, M. R., Saltzmann, S. M., Cowan, T. M., Burleigh, L. M., Butler, L. G., Ramanujam, J., Cohen, A. S., & Greening, S. G. (2020). Strengthening spatial reasoning: Elucidating the attentional and neural mechanisms associated with mental rotation skill development, *Cognitive Research: Principles and Implications*, 5(20).
<https://doi.org/10.1186/s41235-020-00211-y>
- **Moen, K. C.**, Pinto, J. D. G., Papesch, M. H., & Beck, M. R. (2019). Not all information in visual working memory is forgotten equally. *Consciousness & Cognition*, 74.
<https://doi.org/10.1016/j.concog.2019.102782>

- **Moen, K. C.,** Lloyd, M. E., Miller, J. (2017). Selective attention meets spontaneous recognition memory: Evidence for effects at retrieval. *Consciousness & Cognition*, 49, 181-189. <http://dx.doi.org/10.1016/j.concog.2017.02.003>

Under Review

In Preparation

- **Moen, K. C.** (In Preparation). The Impact of Multi-media Presentation Format: Student Perceptions and Learning Outcomes. Invited Submission for a special issue of *Scholarship of Teaching and Learning in Psychology*.
- **Moen, K. C.,** & Beck, M. R. (In Preparation). Exploring the impact of long-term memory engagement during visual working memory tasks.
- **Moen, K. C.,** Saltzmann, S. M., & Beck, M. R. (In Preparation). No attentional boost effect without multiple boosts: Oculomotor evidence of dual-task cost.
- **Moen, K. C.,** Beck, M. R., & Greening, S. G. (In Preparation). Active or passive: The mechanisms of motivated forgetting in visual working memory.

Conference Presentations

* Indicates undergraduate mentee

- **Moen, K. C.** (2020, November). *The Impact of Multi-media Presentation Format: Student Perceptions and Learning Outcomes*. Poster presentation at The Annual Meeting of the Psychonomic Society, Virtual.
- **Moen, K. C.,** Beck, M. R., & Greening, S. G. (2020, May). *Neural evidence of deprioritizing to-be-forgotten information in visual working memory*. Poster submitted to The Annual Meeting of the Vision Science Society, St. Pete Beach, FL. (Retracted due to COVID-19)
- Strain, M. L. & **Moen, K. C.** (2020, January). *Solidarity and Support: Navigating Academic Parenthood*. Participant Idea Exchange to be presented at The Annual Meeting of the National Institute on the Teaching of Psychology, St. Pete Beach, FL.
- **Moen, K. C.** & Beck, M. R. (2019, May). *I won't forget that: Partial forgetting in visual working memory is not due to binding errors*. Poster presented at The Annual Meeting of the Vision Science Society, St. Pete Beach, FL.
- Beck, M. R., & **Moen, K. C.** (2018, November). *Attention allocation for natural and urban scenes: Effects on visual working memory*. Paper presentation at The Annual Meeting of the Psychonomic Society, New Orleans, LA.
- **Moen, K. C.,** Pinto, J. D. G., Papesh, M. H., & Beck, M. R. (2018, November). *Feature vs. identity: Directed forgetting in visual working memory*. Poster presentation at The Object Perception, Attention, and Memory Annual Meeting, New Orleans, Louisiana.

- **Moen, K. C.**, Saltzmann, S. M., Burleigh, L. M., Butler, L. G., Ramanujam, J., Cohen, A. S., Beck, M. R., & Greening, S. G. (2018, November). *Strengthening spatial reasoning: Elucidating the neural mechanisms associated with mental rotation skill development*. Poster to be presented at The Annual Meeting of the Society for Neuroscience, San Diego, CA.
- **Moen, K. C.**, Kim, S., Goldstein, R. R., & Beck, M. R. (2018, May). *Pay attention to this, not that: Feature repetition prevents task-irrelevant feature processing*. Poster presentation at The Annual Meeting of the Vision Science Society, St. Pete Beach, FL.
- Saltzmann, S. M., **Moen, K. C.**, & Beck, M. R. (2018, May). *Coarse and fine visual attention strategies during a 3D mental rotation task*. Poster presentation at The Annual Meeting of the Vision Science Society, St. Pete Beach, FL.
- *Wright, A., **Moen, K. C.**, & Beck, M. R. (2018, May). *Apple of my eye: Incidental learning of change probability biases visual attention to food categories*. Poster presentation at The Annual Meeting of the Vision Science Society, St. Pete Beach, FL.
- *Hernandez, E., **Moen, K. C.**, & Beck, M. R. (2018, May). *The effects of change probability and object typicality on visual working memory and visual attention*. Poster presentation at The Annual Meeting of the Vision Science Society, St. Pete Beach, FL.
- Greening, S., **Moen, K. C.**, Saltzmann, S. M., Burleigh, L., Butler, L. G., Ramanujam, J., Cohen, A. S., & Beck, M. R. (2018, March) *Optimizing STEM skills: A baseline assessment of the neural correlates of mental rotation*. Poster presentation at the annual meeting of the Cognitive Neuroscience Society, Boston, MA.
- Beck, M. R., **Moen, K. C.**, Greening, S., Butler, L. G., Ramanujam, J., & Cohen, A. S. (2018, March) *Optimizing STEM skills: Understanding the allocation of attention during mental rotation*. Paper presentation at the annual meeting of the American Chemical Society, New Orleans, LA.
- **Moen, K. C.**, *Saltzmann, S. M., & Beck, M. R. (2017, May) *The attentional boost effect and eye movements: Failure to replicate*. Poster presentation at The Annual Meeting of the Vision Science Society, St. Pete Beach, FL.
- Beck, M. R., Goldstein, R. R., **Moen, K. C.**, Cohen, A. S., & Wolshon, B. (2017, May) *Effects of Talking and Visual Attention Load on Driving Behavior*. Poster presentation at The Annual Meeting of the Vision Science Society, St. Pete Beach, FL.
- **Moen, K. C.**, Pinto, J. D. G., Papesch, M. H., & Beck, M. R. (2016, November) *Directed forgetting in visual working memory: Detoured, not lost*. Paper presentation at The Object Perception, Attention, and Memory Annual Meeting, Boston, Massachusetts.
- **Moen, K. C.**, & Beck, M. R. (2016, May). *What do the Eyes Reveal? Visual Attention Strategies During Mental Rotation*. Poster presentation at The Annual Meeting of the Vision Science Society, St. Pete Beach, FL.

- **Moen, K. C.,** & Beck, M. R. (2015, November). *Exceeding Working Memory Capacity: Long Term Memory to the rescue?* Poster presentation at The Object Perception, Attention, and Memory Annual Meeting, Chicago, Illinois.
- Beck, M. R., Goldstein, R. R., **Moen, K. C.,** & Clifton, J. (2015, May). *Evidence for Bound Scene Gist Representations: Statistical Summary Representations across Multiple Dimensions.* Poster presentation at The Annual Meeting of the Vision Science Society, St. Pete Beach, FL.
- **Moen, K. C.,** & Lloyd, M. E. (2014, November). *Selective Effects of Selective Attention on Recognition Memory.* Poster presentation at The Annual Meeting of the Psychonomic Society, Long Beach, California.
- **Moen, K. C.,** & Lloyd, M. L. (2014, March). *Selective attention impairs recognition memory for both initial and subsequent testing.* Chair of Memory Papers Session. Paper presentation at The Eastern Psychological Association, Boston, MA.
- Joh, A. S. & **Moen, K. C.,** (2014, March). *Monkey see, monkey do? Social learning and goal-directed actions.* Invited Paper presentation at The Eastern Psychological Association, Boston, MA.
- Assudani, S., **Moen, K. C.,** & Hunter, A. S. (2014, March). *The Effects of Social Housing and REM Deprivation on the Extinction of Conditioned Fear.* Invited Paper presentation at The Eastern Psychological Association, Boston, MA.
- Szani, A., **Moen, K. C.,** Pereira-Pasarin, L. P., & Lloyd, M. E. (2013, November). *Short Meditation Decreases False Alarm Rates for Animate Words.* Poster presentation at The Annual Meeting of the Psychonomic Society, Toronto, Canada.
- Ngo, C., **Moen, K. C.,** & Lloyd, M. L. (2013, March). *Context Effects in Associative Memory Using Objects in Natural Backgrounds.* Paper presentation at The Eastern Psychological Association, New York, NY.

Research Experience

- University of Nebraska Kearney, August 2019-Present
 - Primary Responsibilities: Mentor undergraduate students, develop and conduct research on human memory and attention with a Tobii Eye Tracker
- Louisiana State University, Graduate Assistant, Graduate Student, August 2014-July 2019, Supervisor Dr. Melissa Beck
 - Primary Responsibilities: Supervising data collection with eye-tracking, EEG, and fMRI, coordinating research assistant scheduling, training, supervising and coordinating lab meetings, and programming in MatLab, SuperLab, SR Experiment Builder, and the LSU Driving Simulator Lab

- Seton Hall University, Graduate Assistant, Assistant to the Chair of Psychology, August 2013-June 2014, Supervisor Dr. Susan Nolan
 - Primary Responsibilities: APA Project Syllabus, Assisting the APA Treasurer, Textbook Editing, Contributor to the Statistical Literacy Task Force (<http://teachpsych.org/page-1603066>), Research Project Design and Data Collection
- Seton Hall University, Research Assistant, Child Learning Lab, May 2013-May 2014, Supervisor Dr. Amy Joh
 - Primary Responsibilities: Participant recruitment and scheduling, Participant database entry, Data analysis via Excel and SPSS, Writing SPSS Syntax, Assisting with grant preparation (Literature search, budget preparation, proof reading), Manuscript preparation, Data collection (Haptic vs. Visual Cues of Tool rigidity with 30-month-old infants), Data coding
- Seton Hall University, Graduate Assistant, Decision Making Memory Lab, August 2012-June 2014, Supervisor Dr. Marianne Lloyd
 - Primary Responsibilities: Programming experiments in E-Prime 2.0, Conducting weekly lab meetings, Supervising undergraduates, Lab management, Participant scheduling, Data Collection (Selective attention impairs recognition memory for both initial and subsequent testing [Master's Thesis], Context Effects in Associative Memory Using Objects in Natural Backgrounds)
- Seton Hall University, Graduate Assistant, Physiological Psychology Lab, August 2012-May 2013, Supervisors Dr. Amy Hunter and Dr. Michael Vigorito
 - Primary Responsibilities: Animal care, Lab maintenance, Stereotaxic Surgery, Administering intraperitoneal injections for Sprague-Dawley and Long Evans rats, Data collection (Fear conditioning, REM sleep deprivation, alcohol preference testing)

Teaching Experience

- Assistant Professor. University of Nebraska Kearney
 - General Psychology
 - Research Methods I
 - Research Methods II
 - Sensation & Perception
 - Memory & Cognition
- Graduate Instructor. Louisiana State University
 - Introduction to Psychology, Spring 2017
 - Introduction to Psychology, Fall 2016
 - Introduction to Psychology, Summer 2016
 - Experimental Psychology Lab, Spring 2016
 - Experimental Psychology Lab, Fall 2015

Service to the Discipline

- Sigma Xi UNK Executive Committee – Psychology Representative
- UNK Psychology Department Human Subjects Committee

- LSU Graduate Studies Fair, Scholarship Unbound: Graduate Student Research Presentation, Louisiana State University, April 2016
- Middle States Association Steering Committee Member, Seton Hall University Reaccreditation, August 2013-June 2014, Supervisor Dr. Susan Nolan
 - Primary Responsibilities: Participate in steering committee meetings, Make recommendations for university self-study document, Schedule meetings, Record minutes
- Assistant Reviewer for the Journal of Infant and Child Development, January 2014
 - Primary Responsibilities: Reviewing manuscript and critically analyze previous research, methodology, and results, Provide feedback on acceptance or rejection of manuscript and give detailed feedback to the author(s)
- Eastern Psychological Association, Reviewer of Cognitive Abstract Submissions for 2014 Conference, October 2013
 - Primary Responsibilities: Read abstracts submitted to the Eastern Psychological Association and make recommendations for acceptance for conference presentation

Skills and Skill Level

Stimulus Creation

- Photoshop – Advanced

Experimental Programming

- E-Prime – Advanced
- MatLab – Beginner
- Real Time Technologies SimObserver and SimCreator – Advanced
- SR Research Experiment Builder – Expert
- SuperLab 5.0 – Advanced

Data Collection

- BioSemi EEG – Beginner
- Tobii Eye Tracker – Beginner
- MRI Data Collection on GE T3 Scanner – Advanced
- SR Research Eyelink II Head-Mounted Eye Tracker – Expert
- SR Research Eyelink 1000+ Desk-Mounted Eye Tracker – Expert

Data Analysis

- Tobii ProLab – Beginner
- FSLEYES and FSL(FEAT) – Advanced
- IBM SPSS and SPSS Syntax– Expert
- JASP – Advanced
- Microsoft Excel – Expert
- Python – Beginner

- SR Data Viewer – Expert

Professional Memberships

- Sigma Xi – The Scientific Research Honor Society (2020-Present)
- National Institute for the Teaching of Psychology (2019-Present)
- Society for Neuroscience (2018-Present)
- Psychonomic Society (2015-Present)
- Women in Cognitive Science (2015-Present)
- Vision Science Society (2015-Present)

References Furnished Upon Request