

CURRICULUM VITAE
Mark Mills

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EDUCATION

- Present Ph.D. candidate, Psychology, The University of Nebraska-Lincoln, Lincoln, NE
Supervisor: Dr. Michael D. Dodd
Thesis: "A disposition forgotten: The prevalence and persistence of global precedence"
- 2011 M.A., Psychology, The University of Nebraska-Lincoln, Lincoln, NE
Supervisor: Dr. Michael D. Dodd
Thesis: "Examining the influence of task-set on eye movements and fixations"
- 2008 B.A. with Special Honors, Psychology, Oakland University, Rochester, MI
Supervisors: Drs. Ranald D. Hansen and Christine H. Hansen
Thesis: "Action identification theory and performance attribution"

RESEARCH INTERESTS

Scene perception; eye movements; visual attention; executive control; visual search; object recognition; cognitive and emotional bases of social attitudes and behaviors; quantitative and experimental methods; individual differences

AWARDS, HONORS, AND GRANTS

- 2015 Psychology Department Travel Award (\$250)
2013 Graduate Student Mentor of the Year Award (\$500)
2013 RAC/Warden Travel Award (\$500)
2012 RAC/Warden Travel Award (\$500)
2012 Teaching Council/Parent's Association Teaching Award
2011 Teaching Council/Parent's Association Teaching Award
2011 RAC/Warden Travel Award (\$500)
2010 RAC/Warden Travel Award (\$500)
2010 Sigma XI Grant-In-Aid of Research (\$2,500)
2009 Warden Research Award (\$500)

PUBLICATIONS

Refereed Journal Articles

- Mills, M.,** Dalmaijer, E. S., Van der Stigchel, S., & Dodd, M. D. (2015). Effects of task and task-switching on temporal inhibition of return, facilitation of return, and saccadic momentum during scene viewing. *Journal of Experimental Psychology: Human Perception and Performance*, *41*, 1300-1314.
- Mills, M.,** Smith, K. B., Hibbing, J. R., & Dodd, M. D. (2015). Obama cares about visuo-spatial attention: Perception of political figures moves attention and determines gaze direction. *Behavioural Brain Research*, *278*, 221-225.
- McDonnell, G. P., Bornstein, B., Laub, C., **Mills, M.,** & Dodd, M. D. (2014). Perceptual processes in the cross-race effect: Evidence from eyetracking. *Basic and Applied Social Psychology*, *36*, 478-493.
- Mills, M.,** & Dodd, M. D. (2014). Which way is which? Examining global/local processing with symbolic cues. *Journal of Experimental Psychology: General*, *143*, 1429-1436.
- McDonnell, G. P., **Mills, M.,** McCuller, L., & Dodd, M. D. (2014). How does implicit learning of search regularities alter the manner in which you search? *Psychological Research*, *79*, 183-193.
- Mills, M.,** Smith, K. B., Hibbing, J. R., & Dodd, M. D. (2014). The politics of the face-in-the-crowd. *Journal of Experimental Psychology: General*, *143*, 1199-1213.
- Mills, M.,** Van der Stigchel, S., Hollingworth, A., Hoffman, L., & Dodd, M. D. (2011). Examining the influence of task-set on eye movements and fixations. *Journal of Vision*, *11*, 1-15.
- Van der Stigchel, S., **Mills, M.,** & Dodd, M. D. (2010). Shift and deviate: Saccade deviations reveal that shifts of covert attention evoked by trained spatial stimuli are obligatory. *Attention, Perception, & Psychophysics*, *72*, 1244-1250.

Published Conference and Symposia Proceedings

- Mills, M.,** & Dodd, M. D. (2015). Moving thoughts make for moving targets: Capturing time-sensitive effects in global/local processing. *Visual Cognition*, *23*, 829-832. doi: 10.1080/13506285.2015.1093238
- Hage, B., Alwatban, M. Barney, E., **Mills, M.,** Dodd, M. D., Truemper, E. J., & Bashford, G. R. (2015). Functional transcranial Doppler ultrasound for high temporal resolution measurement of lateralization in visual memory and visual search cognitive tasks. *IEEE International Ultrasonics Symposium Proceedings*. doi: 10.1109/ULTSYM.2015.0494

MANUSCRIPTS UNDER REVIEW

- Mills, M.,** Reinert-Gehman, O., Stoltenberg, S. F. & Dodd, M. D. (2015). Emotion moderates the association between *HTR2A* (rs6313) genotype and antisaccade latency. Manuscript being revised for resubmission to *Experimental Brain Research*.

- McDonnell, G. P., **Mills, M.**, & Dodd, M. D. (2015). You scan while I search: Examining visual search efficiency and oculomotor behavior in a joint search task. Manuscript being revised for resubmission to *Journal of Experimental Psychology: Applied*.
- Bahle, B., **Mills, M.**, & Dodd, M. D. (2015). Human classifier: Can individuals deduce which task someone was performing based solely on their eye movements? Manuscript being revised for resubmission to *Attention, Perception, & Psychophysics*.
- Mills, M.**, Alwatban, M., Hage, B., Barney, E., Truemper, E. J., Bashford, G. R., & Dodd, M. D. (2015). Cerebral hemodynamics during scene viewing: Hemispheric lateralization predicts temporal gaze behavior associated with distinct modes of visual processing.
- Mills, M.**, & Dodd, M. D. (2015). Which way is which? Examining symbolic control of attention with compound arrow cues.
- Hage, B., Alwatban, M., Barney, E., **Mills, M.**, Dodd, M. D., Truemper, E. J., & Bashford, G. R. (2015). Functional transcranial Doppler ultrasound for measurement of hemispheric lateralization during visual memory and visual search cognitive tasks.
- Mills, M.**, Gonzalez, F. J., Giuseffi, K., Sievert, B., Smith, K. B., Hibbing, J. R., & Dodd, M. D. (2015). Political conservatism predicts asymmetries in emotional scene memory.
- Mills, M.**, & Dodd, M. D. (2015). Perceptual organization of social items in the Ternus display: Evidence for grouping by social function.

MANUSCRIPTS IN PREPARATION

- Mills, M.**, & Dodd, M. D. (2015). Piecewise jump-and-slope model for capturing time-sensitive effects in global/local processing.
- Mills, M.**, & Hoffman, L. (2015). Does ignoring random slopes have ignorable consequences for statistical inference?
- Rosen, M. L., **Mills, M.**, & Dodd, M. D. (2015). Global-local processing and task relevancy during sophisticated problem solving.
- Rosen, M. L., **Mills, M.**, Dodd, M. D., & Neider, M. B. (2015). Role of cardiovascular fitness in verbal and blind-walking estimates of perceived distance.
- Mills, M.**, Dalmaijer, E. S., Van der Stigchel, S., & Dodd, M. D. (2015). Examining the manner in which task repetition and image repetition influence the impact of task-switching on visual behavior.
- Mills, M.**, Dalmaijer, E. S., Van der Stigchel, S., & Dodd, M. D. (2015). How does task predictability and switch predictability impact scene processing and visual behavior?

INVITED PRESENTATIONS AND COLLOQUIA

- Mills, M.** (2015). *The politics of emotion: Explaining emotion processing biases in liberals and conservatives*. Hendricks Symposium on Psychology, Biology, and Political Attitudes, April, 3-4, 2015.

- Mills, M.** (2014). *Statistical analyses for eye movement data: A multilevel modeling approach*. Pathways EyeTracking Workshop, August 14, 2014.
- Mills, M.** (2013). *Crossed random effects models for repeated measures designs*. Interuniversity Consortium for Political and Social Research (ICPSR) Summer Institute's Applied Multilevel Models for Longitudinal Data Workshop, July 8-12, University of Michigan (conducted in Boulder, CO).
- Mills, M.** (2010-2013). *Academic success: Getting through it and getting beyond it means getting to it, now*. University of Nebraska's Undergraduate Mid-Semester Check, University of Nebraska-Lincoln, Lincoln, NE.
- Mills, M.** (2010-2013). *Strategies for applying to a psychology graduate program*. Psi Chi Graduate School Workshop, University of Nebraska-Lincoln, Lincoln, NE.
- Mills, M.** (2010). *New trends in applying to graduate school*. University of Nebraska's Graduate School Workshop, University of Nebraska-Lincoln, Lincoln, NE.

CONFERENCE PRESENTATIONS

- Mills, M., & Dodd, M. D.** (2015). Moving thoughts make for moving targets: Capturing time-sensitive effects in global/local processing. Paper presented at the 23rd Annual Workshop on Object Perception, Attention, and Memory (OPAM), Chicago, IL.
- Dodd, M. D., Bahle, B., **Mills, M.**, Rosen, M., McDonnell, G. P., & MacInnes, W. J. (2015). Human classifier: Can individuals deduce which task someone was performing based solely on their eye movements? Paper presented at the 56th annual meeting of the Psychonomic Society, Chicago, IL.
- Rosen, M. L., **Mills, M.**, & Dodd, M. D. (2015). Do "local" numbers facilitate or interfere with solving simple "global" equations? Poster presented at the 56th annual meeting of the Psychonomic Society, Chicago, IL.
- McDonnell, G. P., **Mills, M.**, & Dodd, M. D. (2015). You scan while I search: Examining visual search efficiency and oculomotor behavior in a joint search task. Poster presented at the 56th annual meeting of the Psychonomic Society, Chicago, IL.
- Hage, B., Alwatban, M., Barney, E., **Mills, M.**, Dodd, M. D., Truemper, E. J., & Bashford, G. R. (2015). Functional transcranial Doppler ultrasound for high temporal resolution measurement of lateralization in visual memory and visual search cognitive tasks. Paper presented at the IEEE International Ultrasonics Symposium (IUS), Taipei, Taiwan.
- Dodd, M. D., Bahle, B., **Mills, M.**, Rosen, M., McDonnell, G. P., & MacInnes, W. J. (2015). Human classifier: Can individuals deduce which task someone was performing based solely on their eye movements? Poster presented at the 15th annual meeting of the Vision Sciences Society, St. Petersburg, FL.
- Mills, M.**, Bahle, B., Dalmaijer, E. S., Van der Stigchel, S., & Dodd, M. D. (2015). Effects of task- and switch-predictability on task-switching during scene viewing. Poster presented at the 15th annual meeting of the Vision Sciences Society, St. Petersburg, FL.

- Bahle, B., **Mills, M.**, Dalmaijer, E. S., Van der Stigchel, S., & Dodd, M. D. (2015). The effects of task- and switch-predictability on oculomotor inhibition of return during scene viewing. Poster presented at the 15th annual meeting of the Vision Sciences Society, St. Petersburg, FL.
- Grubaugh, J., Dodd, M. D., **Mills, M.**, & Bahle, B. (2014). Changing how you search influences the spatial and temporal characteristics of eye movements. Poster presented at the 55th annual meeting of the Psychonomic Society, Long Beach, CA.
- Dodd, M. D., **Mills, M.**, Dalmaijer, E. S., & Van der Stigchel, S. (2014). Task-switching and visual behavior. Paper presented at the 55th annual meeting of the Psychonomic Society, Long Beach, CA.
- Barney, E., Alwatban, M., Hage, B., **Mills, M.**, Dodd, M. D., & Bashford, G. R. (2014). Transcranial Doppler assessment of cerebral blood flow velocity during visuospatial tasks. Poster presented at the Nebraska Neuroscience Symposium, Omaha, NE.
- Barney, E., Alwatban, M., Hage, B., **Mills, M.**, Dodd, M. D., & Bashford, G. R. (2014). Transcranial Doppler assessment of cerebral blood flow velocity during visuospatial tasks. Poster presented at the Nebraska Summer Research Symposium, Lincoln, NE.
- Dodd, M. D., **Mills, M.**, Dalmaijer, E. S., & Van der Stigchel, S. (2014). The influence of task set and task switching on visual behavior. Paper presented at the 26th annual meeting of the Association for Psychological Science, San Francisco, CA.
- Mills, M.**, Dalmaijer, E. S., Van der Stigchel, S., & Dodd, M. D. (2014). The effect of task-switching on scanpaths and inhibition of return. Poster presented at the 14th annual meeting of the Vision Sciences Society, St. Petersburg, FL.
- Dodd, M. D., **Mills, M.**, Dalmaijer, E. S., & Van der Stigchel, S. (2014). The influence of task-set and task-switching on visual behavior. Paper presented at the 14th annual meeting of the Vision Sciences Society, St. Petersburg, FL.
- McDonnell, G. P., **Mills, M.**, Bornstein, B. B., & Dodd, M. D. (2014). Perceptual processes in the cross-race effect: Evidence from eyetracking. Poster presented at the 62nd annual Nebraska Symposium on Motivation, Lincoln, NE.
- Dodd, M. D., **Mills, M.**, & McDonnell, G. P. (2013). I still haven't found what you're looking for: Searching for myself and then searching for you too. Poster presented at the 10th biennial meeting of the Society for Applied Research in Memory and Cognition, Rotterdam, Netherlands.
- Dodd, M. D., **Mills, M.**, & McDonnell, G. P. (2013). I still haven't found what you're looking for: Searching for myself and then searching for you too. Poster presented at the 13th annual meeting of the Vision Sciences Society, Naples, FL.
- McDonnell, **Mills, M.**, McCuller, L., & Dodd, M. D. (2013). How does implicit learning of search regularities alter the manner in which you search? Poster presented at the 13th annual meeting of the Vision Sciences Society, Naples, FL.
- Mills, M.**, & Dodd, M. D. (2013). Visual task-switching: No cost for switching to search. Poster presented at the 13th annual meeting of the Vision Sciences Society, Naples, FL.

- Mills, M., Dalmaijer, E. S., Van der Stigchel, S., & Dodd, M. D. (2013).** Task-switching and visual behavior. Poster presented at the 54th annual meeting of the Psychonomic Society, Toronto, ON.
- Mills, M., & Dodd, M. D. (2012).** Hierarchical attentional cueing effects with central arrows: Global dominance early, local dominance late. Poster presented at the 53rd annual meeting of the Psychonomic Society, Minneapolis, MN.
- Dodd, M. D., Mills, M., Van der Stigchel, S., & Hollingworth, A. (2011).** Examining the influence of scene manipulations and task instruction on scanpaths and inhibition of return. Poster presented at the 11th annual meeting of the Vision Sciences Society, Naples, FL.
- Dodd, M. D., & Mills, M. (2011).** Examining the influence of various conceptual cues on attentional allocation and target detection. Poster presented at the 52nd annual meeting of the Psychonomic Society, Seattle, WA.
- Mills, M., Van der Stigchel, S., Hollingworth, A., & Dodd, M. D. (2011).** How do task instructions alter the spatial reference frame of scene-based processing? Poster presented at the 52nd annual meeting of the Psychonomic Society, Seattle, WA.
- Mills, M., & Gruszczyński, M. W. (2010).** Revealing the continuous nature of threat perception in liberals and conservatives. Paper presented at the 33rd annual meeting of the International Society of Political Psychology, San Francisco, CA.
- Mills, M., Hibbing, J. R., Smith, K. B., & Dodd, M. D. (2010).** Emotional target detection is moderated by political temperament in a visual search task. Poster presented at the 59th annual Nebraska Symposium on Motivation: Visual Search, Lincoln, NE.
- Mills, M., Hibbing, J. R., Smith, K. B., & Dodd, M. D. (2010).** Emotional target detection is moderated by political temperament in a visual search task. Paper presented at the 51st annual meeting of the Psychonomic Society, St. Louis, MO.
- Mills, M., Van der Stigchel, S., Hollingworth, A., & Dodd, M. D. (2010).** Examining the influence of task set on eye movements and fixation. Poster presented at the 51st annual meeting of the Psychonomic Society, St. Louis, MO.
- Mills, M., & Dodd, M. D. (2010).** Semantic knowledge of element configuration influences motion perception in the Ternus display. Poster presented at the 18th annual meeting of OPAM (Object Perception and Memory), St. Louis, MO.

OTHER PRESENTATIONS

- Mills, M. (2015).** *Moving thoughts make for moving targets: Capturing time-sensitive effects in global/local processing.* Paper presented at the Cognitive and Neuroscience brownbag, University of Nebraska-Lincoln, Lincoln, NE.
- Mills, M. (2012).** *Hierarchical arrow cueing.* Paper presented at the Cognitive and Neuroscience brownbag, University of Nebraska-Lincoln, Lincoln, NE.

Mills, M., & Gruszczynski, M. W. (2010). *Revealing the continuous nature of threat perception in liberals and conservatives.* Paper presented at the Political Science Department brownbag, University of Nebraska-Lincoln, Lincoln, NE.

Mills, M. (2010). *Semantic knowledge of element configuration influences motion perception in the Ternus display.* Paper presented at the Cognitive and Neuroscience brownbag, University of Nebraska-Lincoln, Lincoln, NE.

Mills, M., & Gruszczynski, M. W. (2009). *MouseTracking threat: Political temperament predicts threat processing.* Paper presented at the Cognitive and Neuroscience brownbag, University of Nebraska-Lincoln, Lincoln, NE.

RESEARCH ASSISTANTSHIPS

2014 – Present Task-Switching and Visual Behavior (with Dr. Michael D. Dodd)
Summer 2012 Adaptive Cognitive Testing in Older Adults (with Dr. Lesa Hoffman)
Summer 2010 Biological Basis of Politics Attitudes (with Dr. John R. Hibbing)

TEACHING AND TEACHING ASSISTANT EXPERIENCE

Summer 2015 Instructor, PSYC 930, Make Friends with SAS and Multilevel Modeling
Summer 2013 Instructor, PSYC 263, Introduction to Cognitive Psychology
Summer 2012 Instructor, PSYC 467, Human Memory
2011 – 2013 T.A., PSYC 460, Sensation and Perception
2011 – 2013 T.A., PSYC 350, Introduction to Research Methods
2010 – 2011 T.A., PSYC 451, Advanced Research Methods II
2010 – 2011 T.A., PSYC 450, Advanced Research Methods I
2009 – 2010 T.A., PSYC 263, Introduction to Cognitive Psychology

PROFESSIONAL SERVICE ACTIVITIES AND MEMBERSHIP

2013 Statistical Consultant. *Individual differences in change over time.*
 PI: Mindi D. Foster (Wilfrid Laurier University).
2012 – Present Ad-hoc Reviewer: *Journal of Experimental Psychology: Human Perception and Performance; Attention, Perception, & Psychophysics*
2010 – Present Vision Science Society, Member
2010 – Present Sigma Xi, Member
2008 – Present Psi Chi, Member

COMMITTEE MEMBERSHIP

2010 – 2012 President, Psychology Department Graduate Student Association
2010 – 2012 Graduate Representative, Psychology Department Executive Committee
2010 UNL Teaching Assistant Workshop Planning Committee

STUDENTS SUPERVISED

Undergraduate co-advisor (with Dr. Michael D. Dodd) for:

Jordan Marshall (2015-2016)

Olivia Reinert-Gehman (2014-2015)

Brett Bahle (2013-2014)

Rachel Rixen (2013-2014)

Michael Mahnken (2012-2013)

Dillon Cornett (2010-2011)

SELECTED MEDIA MENTIONS

BBC News

KOLN/KGIN news

Lincoln Journal Star