

# James D. Miles

Purdue University

Dept. of Psychological Sciences

703 Third St., West Lafayette, IN, 47906

[jmiles@purdue.edu](mailto:jmiles@purdue.edu) | 434-242-5309

[www.MilesLab.com](http://www.MilesLab.com)

## PROFESSIONAL EXPERIENCE

2011-Present

Assistant Professor

California State University Long Beach, Long Beach, CA: Department of Psychology

2007-2011

Postdoctoral research associate with Professor Robert Proctor (Purdue University, Cognitive)

Duties: Compatibility effects research, attention, automaticity, and conscious performance strategies.

2000-2007

Graduate researcher with Professor Daniel Willingham (University of Virginia, Cognitive)

Duties: Motor Skill research, including work with Huntington's Disease patients, performance research.

2000-2002

Graduate researcher with Professor Timothy Salthouse (University of Virginia, Cognitive).

Duties: Knowledge of various tests including WAIS and WMS, performance research

1999-2000

Research assistant with Professor David Hill (University of Virginia, Psychobiology)

Duties: basic surgical techniques, perfusion, microscopy

1997-1998

Research assistant with Professor Thomas Foster (University of Virginia, Psychobiology)

Duties: Research with rats and mice using behavioral techniques such as water maze and aversion box; surgical techniques including perfusion, ovariectomy, and castration.

## EDUCATION

University of Virginia, B.A. (2000), M.A. (2007), Ph.D. (2007)

Charlottesville, VA

B.A. Major: Psychology

M.A. and Ph.D. Major: Cognitive Psychology

Advisors: Daniel Willingham, Dennis Proffitt, and Chad Dodson

Dissertation Thesis: Suppression of priming effects during advance task preparation.

Master's Thesis: Motor Priming –Response related priming effects

## RESEARCH INTERESTS

Perception-action link

Action representation

Control of goal-oriented behavior

## PUBLISHED PAPERS

Miles, J. D., & Proctor, R. W. (2011). Correlations between spatial compatibility effects: Are arrows more like locations or words? *Psychological Research*. Advance online publication.

Miles, J. D., & Proctor, R. W. (2011). Colour correspondence effects between controlled objects and targets. *The Quarterly Journal of Experimental Psychology*, 64, 2044–2064.

Proctor, R. W., Miles, J. D., & Baroni, G. (2011). Reaction time distribution analysis of spatial correspondence effects. *Psychonomic Bulletin & Review*, 18, 242–266.

Miles, J. & Proctor, R.W. (in press) Attention is required for acquisition but not expression of new response biases. *Journal of Experimental Psychology: Learning, Memory & Cognition*.

Miles, J., Witt, J. K. & Proctor, R.W. (2010) Action plans produce separate Simon effects for picking up objects and transporting them. *Psychological Research*, 74(5), 468-475.

Miles, J. & Proctor, R.W. (2009) Non-intentional but not automatic: reduction of word- and arrow-based compatibility effects by sound distractors in the same categorical domain. *Experimental Brain Research*, 199(1), 101-106.

Miles, J., Yamaguchi, M., & Proctor, R.W. (2009) Dilution of the Simon effect: categorical similarity between distractors and diluters. *Attention, Perception & Psychophysics*, 71(7), 1598-1606.

Miles, J., Proctor, R.W. & Capaldi, E. J. (2009) Associative learning without reason or belief: Commentary on Mitchell et al. *Behavioral and Brain Sciences*, 32, 217-218.

Miles, J. & Proctor R.W. (2009) Reducing and restoring stimulus-response compatibility effects by decreasing the discriminability of location words. *Acta Psychologica*, 130(1), 95-102.

Miles, J. & Proctor R.W. (2008) Improving performance through implementation intentions: are preexisting response biases replaced? *Psychonomic Bulletin and Review*, 15(6), 1105-1110.

Salthouse, T., Berish, D., & Miles, J. (2002) The role of cognitive stimulation on the relations between age and cognitive functioning. *Psychology and Aging*, 17(4), 548-557.

Salthouse, T. & Miles, J. (2002). Aging and time sharing aspects of executive control. *Memory & Cognition*, 30(4), 572-582.

## SUBMITTED PAPERS

Miles, J. D. & Proctor, R.W. (submitted) Color correspondence effects between controlled objects and targets.

Proctor, R. W., Miles, J. D., & Baroni, G. (submitted) Reaction-time distribution analysis of spatial correspondence effects.

## PRESENTED TALKS

Miles, J. & Proctor, R. W. (2010) “Attention is required for the acquisition of new spatial associations but not their expression” Presented at the 2010 Rocky Mountain Psychological Association Convention in Denver, Colorado.

Miles, J. (2009) "Conceptual mediation of spatial stimulus-response compatibility effects."  
Invited Presentation at The European Society for Cognitive Psychology Conference 2009 in  
Krakow, Poland.

Miles, J. (2008) "The truth about aging" Presented at the University Place Retirement community  
in West Lafayette, Indiana

## PRESENTED POSTERS

Miles, J., Witt J.K., & Proctor, R.W. Object and Goal Locations Contribute Additively to the  
Simon Effect. Presented at Psychonomics, 2009.

Miles, J., Yamaguchi, M. & Proctor, R. W. Do Response Biases Created by Task Instructions  
Override Preexisting Response Biases? Poster Presented at Psychonomics, 2008.

Miles, J. and Proctor, R. W. "Compatibility Effects with Degraded Stimulus Features: The Role  
of Attention" Presented at APS annual conference, 2008.

Miles, J., Yamaguchi, M., & Proctor, R. W. (2008, May). Interfering with  
interference: Diffusion of task interference from an irrelevant display attribute. Poster presented  
at Conference on The Science and Applications of Perception Psychology, Cincinnati, OH.

Miles, J. & Willingham D. "Stimulus-Response Set Priming and Conscious Preparation"  
Presented at Cognitive Neuroscience Society, 2005

Miles, J. & Willingham D. "Motor Priming" Presented at Psychonomics Society, 2004

Miles, J. & Willingham D. "Spatial Features of Motor Priming" Presented at Cognitive  
Neuroscience Society, 2004

Miles, J. & Willingham D. "Features of Task Set Priming" Presented at Society for Neuroscience,  
2003.

Miles, J. & Willingham D. "Motor Priming" Presented at Society for Neuroscience, 2003.

Miles, J. & Salthouse T. "Aging and time sharing aspects of executive control" Presented at  
Cognitive Aging Conference, 2002.

Miles, J. & Willingham D. "Use of Explicit Knowledge for Motor Control in Patients with  
Huntington's Disease (HD)" Presented at Society for Neuroscience, 2001

## PROFESSIONAL SERVICE AND OUTREACH

Peer-Reviewer for *American Journal of Psychology*; *Attention, Perception and Psychophysics*; *Cognition*;  
*Cognition and Emotion*; *European Journal of Experimental Psychology*; *Memory and Cognition*

Assistant organizer of the "Fall Perception and Engineering Expo" at Purdue University  
(October, 2008)

Head organizer of the "Spring Perception and Engineering Expo" at Purdue University  
(May, 2009)

## TEACHING INTERESTS

Introduction to Cognition  
Introduction to Perception  
Introduction to Statistics and Research Methods  
Cognitive Neuroscience  
Seminar: Theories of Perception  
Seminar: Perception and Action  
Seminar: Information Processing

## TEACHING EXPERIENCE

### *Undergraduate Level Courses*

2010 (1 semester)  
Teaching associate, Purdue University  
Supervisor: Robert Proctor  
Course: Introduction to Cognitive Psychology

2004 and 2006 (3 semesters)  
Lab Instructor, University of Virginia  
Supervisors: Karen Schmidt, James Freeman  
Course: Introduction to statistics

2006 (1 semesters)  
Teaching Assistant, University of Virginia  
Supervisors: Nancy Weinfield  
Course: Introduction to statistics

2002 and 2003 (2 semesters)  
Teaching Assistant, University of Virginia  
Supervisors: David Hill, Lisa Goehler  
Course: Psychobiology Lab

2000-2002 (2 semesters)  
Teaching Assistant, University of Virginia  
Supervisors: Daniel Willingham, Jacqueline Shin  
Course: Introduction to Cognition

### *Graduate Level Courses*

2009 (1 semester)  
Class organizer and teaching assistant, Purdue University  
Supervisors: Robert Proctor, George Chiu  
Course: Perception-Based Engineering

2009 (1 semester)  
Teaching Assistant, Purdue University  
Supervisor: Robert Proctor  
Course: Information Processing

## ASSOCIATION MEMBERSHIPS

Association for Psychological Science (APS), Psychonomics Society

## RESEARCH GRANTS

September, 2008 – September, 2010

Supported by Multi-University Research Grant from the U.S. Army Research Office,  
“Acquisition and retention of basic components of skill”

August, 2007 - August, 2008

Supported by National Institute on Aging grant, “Modeling the effects of aging on memory”

December, 2007

Submitted National Research Service Award, Individual Postdoctoral Fellowship, to National  
Institute on Aging “Speed of processing as a moderator of effective action selection in older  
adults.”, unfunded