

VITA

David L. Strayer

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Date of Birth: September 12, 1957

Family: wife, Kay; sons Kyle & Sean

Educational History:

1989	Ph.D. University of Illinois at Urbana-Champaign Major: Experimental Psychology Minors: Quantitative, Biological
1982	M.S. Eastern Washington University Major: Experimental Psychology
1980	B.A. Eastern Washington University Majors: Psychology, History

Professional History

2004 – Present	Professor, Department of Psychology, University of Utah Director of the Applied Cognition Laboratory Adjunct Professor, Dept. of Educational Psychology, University of Utah
1995 - 2004	Associate Professor, Department of Psychology, University of Utah
1991 - 1995	Assistant Professor, Department of Psychology, University of Utah
1990 - 1991	Member of Technical Staff, Network Architecture and Services Laboratory, GTE Laboratories
1989 - 1990	Post-Doctoral Research Associate, Department of Psychology, University of Illinois at Urbana-Champaign
1982 - 1988	Teaching and Research Assistant, Department of Psychology, University of Illinois at Urbana-Champaign
1980 - 1982	Teaching and Research Assistant, Department of Psychology, Eastern Washington University

Awards

John R. Park Professor of Psychology (2017-2022)
Celebrate U Top Researcher Honoree, University of Utah, 2017
National Forest Service Wilderness Stewardship Research Award, US Forest Service, 2016
Jerome Ely Human Factors Article award for best article in the 2015 volume of *Human Factors*
Fellow of the Association for Psychological Sciences, 2012
Interdisciplinary Teaching Grand Award (The Psychology of Traffic), 2011
University of Utah Distinguished Scholarly and Creative Research Award, 2010
College of Social and Behavioral Sciences Superior Teaching Award Finalist, 2010
Discover Magazine's 100 Top Science Stories of 2005
John Park Teaching Fellowship, 2004
Discover Magazine's 100 Top Science Stories of 2003
College of Social and Behavioral Sciences Superior Research Award, 2002
John Park Teaching Fellowship, 1997
College of Social and Behavioral Sciences Superior Research Award Finalist, 1995 (Jr. Award)
Sigma Xi research paper award, 1988
Paul D. Doolen Graduate Scholar for the Study of Aging, 1987
NASA/AMES Research Fellowship, 1985-87
Outstanding academic student at Eastern Washington University, 1982
Debra White Memorial Scholarship for academic achievement, 1979

Research Interests

Attention and Multitasking
The Psychology of Traffic
Skill Acquisition and Skilled Performance
Mathematical Modeling of Human Performance
Cognitive Psychophysiology
Cognition and Nature

Teaching Interests

Cognitive Psychology
Sensation and Perception
Attention and Skill Acquisition
Human Factors and Engineering Psychology
Cognition in the *Wild*

Professional Organizations

The Association for Psychological Society
The Psychonomic Society
The Human Factors Society

University of Utah Committees and Service

Academic Senate (2001-2003)
College Technology Committee (1998, chair, 1999)
CNS Area Coordinator (1998-2003)
Graduate Council Review
 Civil and Environmental Engineering (2007)
 Chemistry (2013)
Institutional Review Board (1998-2003)
Research Participation Committee (1991-1996, 2014)
Personnel Committee (2011-2013, 2017)
Psychology Technology Committee (1999-2002)
Undergraduate Committee (2010, chair 2012-2015)
Executive Committee (2015)
College RPT Committee (2015-2016, chair 2017)
Graduate Committee (2016)
Development and Public Outreach Committee (2016)

Graduate Student Supervision

- Gregory B. Malley M.S.
- Sarah Grison M.S.
- Joel M. Cooper Ph.D.
- Nathan Ward Ph.D.
- James R. Coleman Ph.D.
- Jonna M. Turrill M.S.
- Rachel J. Hopman M.S.
- Spencer Castro M.S.
- Sara B. LoTemploi

Editorial Duties and Service

Consulting Editor for *Perception and Psychophysics*, 1994-1999

Consulting Editor for the *Journal of Experimental Psychology: Human Perception and Performance*, 1999-2004

Guest Editor for the special issue of *Human Factors* on driver distraction (2004)

Consulting Editor for the *Journal of Experimental Psychology: Applied*, 2005-2009

Consulting Editor for *Frontiers of Cognition* (2010 - present)

Ad Hoc Reviewer for *Journal of Experimental Psychology: Learning, Memory, & Cognition*, *Journal of Experimental Psychology: Human Perception and Performance*, *Journal of Experimental Psychology: General*, *Psychonomic Bulletin & Review*, *Psychological Science*, *Perception and Psychophysics*, *Quarterly Journal of Experimental Psychology*, *Memory & Cognition*, *American Journal of Psychology*, *Journal of Accident Analysis & Prevention*, *Human Factors*

Member of the *NASA Life and Biomedical Sciences and Applications* Division-wide Peer Review Panel, 1994-1995

Member of the Utah Legislative *Task Force on Inattention and Driving* (1999)

Participant at the *National Distracted Driving Summit* in Washington D.C. (2009, 2010)

Testifying in committees of the *Utah State Legislature* (2009, 2010)

United States House and Senate briefings on Driver Distraction (5/5/10 and 5/6/10)

United States House and Senate briefings on Driver Distraction (6/13/2013)

Chair of Search Committee for the Editor of *Behavior Research Methods* (2013)

Invited participant at the National Transportation Safety Board Roundtable on *Disconnecting from Deadly Distractions* held in Washington D.C. (March 31, 2015)

Invited participant at the National Highway Traffic Safety on *Cognitive Distractions: What Were You Thinking?* held in Washington D.C. (May 12, 2015)

Invited participant at the White House Roundtable on *The Health Benefits of the Outdoors*, held in Washington, D.C. (October 20, 2016).

Organized and hosted the International Forum on Impact of Vehicle Technologies and Automation on Users held at the University of Utah, Salt Lake City, UT (November 7-8, 2017) in conjunction with the AAA Foundation for Traffic Safety.

Member of the *Utah Road Usage Charge Advisory Committee* (reporting to the Utah Department of Transportation in response to Utah S.B. 136, (2018-2019).

Research Support

University of Illinois dissertation research grant, 1988, \$750.

National Institute of Health, "Aging and the Development of Automatic Processing", 1989-1990, \$38,050 (co-PI with A. Kramer).

National Institute of Health, "Development of Skilled Performance in the Elderly", 1991-1993, \$213,636 (co-PI with A. Kramer).

University Research Committee Grant, "Separating Strategic and Automatic Components of Skill Acquisition and Skilled Performance", 1991. \$5000.

National Institute of Health, "An Information Processing Approach to Autism", 1994-1999, \$520,038 (co-I with S. Ozonoff).

University Research Committee Grant, "ERP Studies of Novel Popout", 1995. \$5000.

University Research Instrumentation Grant, 1996. \$8000.

University Research Committee Grant, "Event-related Brain Potential Studies of the Negative Priming Effect", 1998. \$6000.

National Institute of Health: Bioengineering Research Partnership, "Data Display to Detect/Diagnose/Treat Critical Events", 1999-2004, \$2,221,179 (co-PI with Dwayne Westenskow et. al.).

National Institute of Mental Health, "The Deautomatization of Attitudes", 2000-2002, \$149,500 (co-PI with David M. Sanbonmatsu).

National Aeronautics and Space Administration, "Graphic Displays to Facilitate Rapid Discovery, Diagnosis, and Treatment of Medical Emergencies", 2001-2002, \$100,000. (co-PI with Frank Drews).

Federal Aviation Administration, "Alcohol, Divided Attention, Performance, and Gene Expression", 2002, \$30,633.

Utah Department of Transportation, "Simulator Training of Maintenance Workers", 2003-2004, \$195,173.

National Institute of Child Health and Human Development, Cell-phone-induced distraction in adolescent drivers, 2005-2006, \$140,500 (co-PI with Michael Kramer).

Utah Department of Transportation, "Targeted and Adaptive Simulator Training for Winter Maintenance", 2005-2006, \$77,010.

Idaho National Laboratory, "Brains and Chips: System for Analyzing Differences in Imagery", 2005, \$85,122.

Interdisciplinary Research Grant, "Meet the Super Taskers: Identifying Genetic and Neural Markers of Extraordinary Cognitive Reserve", 2009, \$12,000 (co-PI with Jason Watson).

AAA Foundation for Traffic Safety, "Measuring Cognitive Distraction in the Vehicle", 2011-2012, \$522,916.

University of Utah Research Instrumentation Award, "Request for a High Fidelity Driving Simulator", (2011), \$100,000 plus matching funds from Drive Safety for a total award of \$180,000.

National Science Foundation, "Electrophysiological evidence for hierarchical error detection in skilled typewriting", (2011), \$17,476 (subcontract with Vanderbilt University).

AAA Foundation for Traffic Safety, "Measuring Cognitive Distraction in the Vehicle" - extension of original scope of work and budget, 2012-2013, \$ 63,587.

- Mountain-Plains Consortium, “The Effect of Multi-tasking on Self Assessments of Driving Performance” 2012-2013, \$44,880 (co-PI with David Sambonmatsu).
- Federal Highways Administration, “Reducing Roadway Departure Crashes at Horizontal Curve Sections on Rural, Two-Lane Highways”, 2012-2013, \$187,280 (co-PI with R.J. Porter and Joel Cooper).
- AAA Foundation for Traffic Safety, “Examining Speech-based Interactions with In-Vehicle Technology”, 2013-2014, \$295,629.
- National Academies Keck Futures Initiative, “Nature and Cognitive Restoration: How does the Brain Behave in a Non-digital World?”, 2013-2015, \$50,000.
- AAA Foundation for Traffic Safety, “Phase III: Measuring Cognitive Distraction in the Vehicle” - extension of original scope of work and budget, 2014-2015, \$476,949.
- Mountain-Plains Consortium, “Self-regulation and Distraction” 2014-2015, \$57,670 (co-PI with David Sanbonmatsu).
- National Institute for Transportation and Communities, Changing Attitudes Toward Sustainable Transportation: The Impact of Meta-arguments", 2014-2016, \$75,458 (co-PI with David Sanbonmatsu).
- AAA Foundation for Traffic Safety, “Phase IIIa: Measuring Cognitive Distraction in the Vehicle - extension of original scope of work and budget”, 2014-2015, \$355,470.
- AAA Foundation for Traffic Safety, “A Comprehensive Assessment of Cognitive and Visual Workload in Vehicles – Phase IV”, 2015-2016, \$689,500.
- AAA Foundation for Traffic Safety, “The Establishment of a Comprehensive Program to Evaluate Cognitive, Visual, and Manual Workload in New Vehicles”, 2016-2018, \$3,864,000.
- University of Utah Seed Grant, “ Spectral EEG and driver physiology to monitor driver mindwandering” 2017-2018, \$29,600 (Co-PI with Francesco Biondi).

Publications

- Coles, M. G. H., & Strayer, D. L. (1985). The psychophysiology of the cardiac cycle time effect. In Orlebeke, J. F., Mulder, G., & van Doornen, L. J. P. (Eds.), *Psychophysiology of Cardiovascular Control*. New York: Plenum Press, pp. 517-534.
- Braune, R., Wickens, C. D., Strayer, D. L., & Stokes, A. F. (1985). Age-dependent changes in information processing abilities between 20 and 60 years. In Swezey, R. W. (Ed.), *Proceedings of the Human Factors Society, 29th Annual Meeting*. pp. 226-230, Baltimore, MD.
- Strayer, D. L., Wickens, C. D., & Braune, R. (1987). Adult age differences in the speed and capacity of information processing II: An electrophysiological approach. *Psychology and Aging*, 2, 99-110.

- Gehring, W. J., Strayer, D. L., Kramer, A. F., Donchin, E., & Miller, G. A. (1987). An evaluation of age differences in the development of automaticity. *Proceedings of the 4th International Conference of Neurosciences*, Paris-Dourdan, France.
- Kramer, A. F., & Strayer, D. L. (1988). Assessing the development of automatic processing: An application of dual-task and event-related brain potential methodologies. *Biological Psychology*, 26, 231-267.
- Kramer, A. F., Strayer, D. L., & Buckley, J. (1989). Factors influencing the development and transfer of automatic processing. *Proceedings of the Human Factors Society, 33rd Annual Meeting*, pp. 1248-1252.
- Strayer, D. L., & Kramer, A. F. (1990). Attentional requirements of automatic and controlled processing. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 16, 67-82.
- Strayer, D. L., & Kramer, A. F. (1990). An analysis of memory-based theories of automaticity. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 16, 291-304.
- Kramer, A. F., Strayer, D. L., & Buckley, J. (1990). Development and transfer of automatic processing. *Journal of Experimental Psychology: Human Perception and Performance*, 16, 505-522.
- Kramer, A. F., Strayer, D. L., & Buckley, J. (1991). Task versus component consistency in the development of automatic processing: A psychophysiological assessment. *Psychophysiology*, 24, 425-437.
- Kramer, A. F., Coyne, J. T., & Strayer, D. L. (1991). Human performance at the roof of North America. *Proceedings of the Human Factors Society, 35th Annual Meeting*, pp. 561-565.
- Kramer, A. F., & Strayer, D. L. (1991). Separating strategic and data-driven components of skilled performance. *Proceedings of the 32nd Annual Meeting of the Psychonomics Society*, p. 50.
- Mecklinger, A., Kramer, A. F., & Strayer, D. L. (1992). Event related potentials and EEG components in a semantic memory search task. *Psychophysiology*, 29, 104-119.
- Kramer, A. F., Coyne, J. T., & Strayer, D. L. (1993). Cognitive function at high altitude. *Human Factors*, 35, 329-344.
- Sirevaag, E. J., Kramer, A. F., Wickens, C. D., Reisweber, M., Strayer, D. L., & Grenell, J. H. (1993). Assessment of pilot performance and mental workload in rotary wing aircraft. *Ergonomics*, 9, 1121-1140.
- Larish, J., Kramer, A., DeAntonna, J., & Strayer, D. L. (1993). Aging and dual-task training. *Proceedings of the Human Factors Society, 37th Annual Meeting*, Seattle, WA.
- Strayer, D. L., & Kramer, A. F. (1993). Strategies and automaticity: Implications for part-task training. *Proceedings of the Human Factors Society, 37th Annual Meeting*, Seattle, WA.
- Strayer, D. L., & Kramer, A. F. (1994). Strategies and automaticity I: Basic findings and conceptual framework. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 20, 318-341.

- Strayer, D. L., & Kramer, A. F. (1994). Strategies and automaticity II: Dynamic aspects of strategy adjustment. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *20*, 342-365.
- Ozonoff, S., Strayer, D. L., McMahon, W., & Fillous, F. (1994). Executive function abilities in autism and Tourette syndrome: An information processing approach. *Journal of Child Psychology and Psychiatry*, *35*, 1015-1032.
- Kramer, A. F., Humphrey, D. G., Larish, J. F., Logan, G. D., & Strayer, D. L. (1994). Aging and inhibition: Beyond a unitary view of inhibitory processing in attention. *Psychology and Aging*, *9*, 491-519.
- Strayer, D. L., & Kramer, A. F. (1994). Aging and skill acquisition: Learning-performance distinctions. *Psychology and Aging*, *9*, 589-605.
- Kramer, A. F., Larish, J., & Strayer, D. L. (1995). Training strategies for attentional control in dual-task settings: A comparison of young and old adults. *Journal of Experimental Psychology: Applied*, *1*, 50-76.
- Malley, G. B., & Strayer, D. L. (1995). Effects of stimulus repetition on positive and negative identity priming. *Perception and Psychophysics*, *57*, 657-667.
- Strayer, D. L. (1996). Skill acquisition. In J. E. Birren (Ed.) *Encyclopedia of Gerontology: Age, Aging, and the Aged*, Academic Press, Orlando FL (pp. 489-495).
- Ozonoff, S., & Strayer, D. L. (1997). Inhibitory function in nonretarded autistic children. *Journal of Autism and Developmental Disorders*, *27*, 59-76.
- Strayer, D. L. (1997). Testing race models of visual search. *Journal of Experimental Psychology: Human Perception and Performance*, *23*, 566-581.
- Johnston, W. A., Strayer, D. L., & Vecera, S. P. (1998). Broad mindedness and perceptual flexibility: Lessons from dynamic ecosystems. In J. S. Jordan (Ed.) *Systems Theory and a Priori Aspects of Perception*, Elsevier (pp. 87-103).
- Ozonoff, S., Strayer, D. L., McMahon, W. M., & Filloux, F. (1998). Inhibitory deficits in Tourette syndrome as a function of comorbidity and severity. *Journal of Child Psychology and Psychiatry*, *39*, 1109-1118.
- Strayer, D. L., & Grison, S. (1999). Negative identity priming is contingent on stimulus repetition. *Journal of Experimental Psychology: Human Perception and Performance*, *25*, 24-38.
- Gardner, M. K., Strayer, D. L., Woltz, D. J., & Hill, R. D. (2000). Cognitive skill acquisition, maintenance, and transfer in the elderly. In R. D. Hill, L. Backman, & A. S. Neely (Eds.) *Cognitive Rehabilitation in Old Age*, Oxford University Press, New York, NY (pp. 42 - 60).
- Strayer, D. L., & Johnston, W. A. (2000). Novel popout is an attention-based phenomenon: An ERP analysis. *Perception and Psychophysics*, *62*, 459-470.
- Ozonoff, S., & Strayer, D. L. (2001). Brief Report: Further evidence of intact working memory in autism. *Journal of Autism and Developmental Disorders*, *31*, 257-263.

- Grison, S., & Strayer, D. L. (2001). Negative priming and perceptual fluency: More than what meets the eye. *Perception and Psychophysics*, *63*, 1063-1071.
- Strayer, D. L., & Johnston, W. A. (2001). Driven to distraction: Dual-task studies of simulated driving and conversing on a cellular phone. *Psychological Science*, *12*, 462-466.
- Kramer, A. F., & Strayer, D. L. (2001). Influence of stimulus repetition on negative priming. *Psychology and Aging*, *16*, 580-587.
- Strayer, D. L., Drews, F. A., Albert, R. W., & Johnston, W. A. (2001). Cell phone induced perceptual impairments during simulated driving. In D. V. McGehee, J. D. Lee, & M. Rizzo (Eds.) *Driving Assessment 2001: International Symposium on Human Factors in Driver Assessment, Training, and Vehicle Design*. Published by the Public Policy Center, University of Iowa (pp. 14-19).
- Johnston, W. A., & Strayer, D. L. (2001). A dynamical, evolutionary perspective on attention capture. In C. Folk & B. Gibson (Eds.), *Attraction, Distraction and Action; Multiple Perspectives on Attentional Capture*. Elsevier (pp. 375-397).
- Drews, F. A., Agutter, J., Syroid, N. D., Albert, R. W., Westenskow, D. R., & Strayer, D. L. (2001). Evaluating a graphical cardiovascular display for anesthesia. *Proceedings of the 41st Annual Meeting of the Human Factors Society*.
- Albert, R. W., Drews, F. A., Strayer, D. L., Syroid, N. D., Westenskow, D. R., Agutter, J., Loeb, R. G., & Weinger, M. B. (2001). Facilitation of anesthetic administration during simulated surgeries with a drug display. *Proceedings of the 41st Annual Meeting of the Human Factors Society*.
- Syroid, N.D., Agutter, J., Drews, F. A., Westenskow, D. R., Albert, R. W., Bermudez, J. C., Strayer, D. L., Prenzle, H., Loeb, R. G., & Weinger, M. B. (2002). Development and evaluation of a graphical anesthesia drug display. *Anesthesiology*, *96*, 565-574.
- Filoteo, J. V., Rilling, L. R., & Strayer, D. L. (2002). Negative priming in patients with Parkinson's Disease: Evidence for a role of the striatum in inhibitory attentional processes. *Neuropsychology*, *16*, 230-241.
- Strayer, D. L., Drews, F. A., & Albert, R. W. (2002). Negative priming and stimulus repetition: A reply to Neill and Joordens (2002). *Perception and Psychophysics*, *64*, 861-865.
- Strayer, D. L. (2002). Review of engineering psychophysiology: Issues and applications. *Psychophysiology*, *39*, 406-407. [Book Review]
- Strayer, D. L., Drews, F. A., & Johnston, W. A. (2003). Cell phone induced failures of visual attention during simulated driving. *Journal of Experimental Psychology: Applied*, *9*, 23-52.
- Agutter, J., Drews, F. A., Syroid, N.D., Westenskow, D. R., Albert, R. W., Strayer, D. L., Bermudez, J. C., & Weinger, M. B. (2003). Evaluation of a graphical cardiovascular display in a high fidelity simulator. *Anesthesia & Analgesia*, *97*, 1403-1413.

- Strayer, D. L. & Drews, F. A. (2003). Effects of cell phone conversations on younger and older drivers. *Proceedings of the 47th Annual Meeting of the Human Factors and Ergonomics Society* (pp. 1860-1864).
- Strayer, D. L., Drews, F. A., & Crouch, D. J. (2003). Fatal distraction? A comparison of the cell-phone driver and the drunk driver. In D. V. McGehee, J. D. Lee, & M. Rizzo (Eds.) *Driving Assessment 2003: International Symposium on Human Factors in Driver Assessment, Training, and Vehicle Design*. Published by the Public Policy Center, University of Iowa (pp. 25-30).
- Drews, F. A., Strayer, D. L., Smith, T., & Uchino, B. N. (2003). Precursors to road rage: A psychophysiological investigation. In D. V. McGehee, J. D. Lee, & M. Rizzo (Eds.) *Driving Assessment 2003: International Symposium on Human Factors in Driver Assessment, Training, and Vehicle Design*. Published by the Public Policy Center, University of Iowa (pp. 194-198).
- Strayer, D. L., & Drews, F. A. (2003). Simulator training improves driver efficiency: Transfer from the simulator to the real world. In D. V. McGehee, J. D. Lee, & M. Rizzo (Eds.) *Driving Assessment 2003: International Symposium on Human Factors in Driver Assessment, Training, and Vehicle Design*. Published by the Public Policy Center, University of Iowa (pp. 190-193).
- Drews, F. A., Syroid, N. D., Agutter, J., Westenskow, D. R., & Strayer, D. L. (2003). Increasing intraoperative patient safety: Monitoring drug concentrations. *Proceedings of the 47th Annual Meeting of the Human Factors and Ergonomics Society* (pp. 1438-1442).
- Drews, F. A., Syroid, N. D., Agutter, J., Snell, D., Balikrishnan, S., Lingutla, S., Westenskow, D. R., & Strayer, D. L. (2003). Development and evaluation of just-in-time training to provide cardio-pulmonary resuscitation: Monitoring drug concentrations. *Proceedings of the 47th Annual Meeting of the Human Factors and Ergonomics Society* (pp. 1507-1510).
- Strayer, D. L., Cooper, J. M., & Drews, F. A. (2004). What do drivers fail to see when conversing on a cell phone? *Proceedings of the 48th Annual Meeting of the Human Factors and Ergonomics Society* (pp. 2213-2217).
- Drews, F. A., Pasupathi, M., & Strayer, D. L. (2004). Passenger and cell-phone conversations in simulated driving. *Proceedings of the 48th Annual Meeting of the Human Factors and Ergonomics Society* (pp. 2210-2212).
- Strayer, D. L., Drews, F. A., & Burns, S. (2004). The development and evaluation of a high-fidelity simulator training program for snowplow operators (US Federal Highway Administration report #UT-04.17).
- McCarley, J. S., Vais, M., Pringle, H., Kramer, A. F., Irwin, D. E., & Strayer, D. L. (2004). Conversation disrupts scanning and change detection in complex visual scenes. *Human Factors*, 46, 424-436.
- Strayer, D. L. & Drews, F. A. (2004). Profiles in driver distraction: Effects of cell phone conversations on younger and older drivers. *Human Factors*, 46, 640-649.

- Lee, J. D., & Strayer, D. L. (2004). Preface to the special section on driver distraction. *Human Factors*, *46*, 583-586.
- Strayer, D. L., Drews, F. A., Crouch, D. J., & Johnston, W. A. (2005). Why do cell phone conversations interfere with driving? In W. R. Walker and D. Herrmann (Eds.), *Cognitive Technology: Essays on the Transformation of Thought and Society*. McFarland & Company Inc., Jefferson, NC. (pp. 51-68).
- Strayer, D. L., Drews, F. A., & Burns, S. (2005). The development and evaluation of a high-fidelity simulator training program for snowplow operators. In D. V. McGehee, J. D. Lee, & M. Rizzo (Eds.) *Driving Assessment 2005: International Symposium on Human Factors in Driver Assessment, Training, and Vehicle Design*. Published by the Public Policy Center, University of Iowa (pp. 456-462).
- Drews, F. A., Syroid, N., Agutter, J., Strayer, D. L., & Westenskow, D. R. (2006). Drug delivery as a control task: Improving patient safety in anesthesia. *Human Factors*, *48*, 85-94.
- Strayer, D. L., Drews, F. A., & Crouch, D. J. (2006). Comparing the cell-phone driver and the drunk driver. *Human Factors*, *48*, 381-391.
- Strayer, D. L., Martinez, M., Cooper, J. M., & Drews, F. A. (2006). Brain waves suppressed by cell phone conversations. In the *Proceedings of the 50th Annual Meeting of the Human Factors and Ergonomics Society* (pp. 2364-2367).
- Possin, K. L., Cagigas, X. E., Strayer, D. L., & Filoteo, J. V. (2006). Lack of impairment in patients with Parkinson's Disease on an object-based negative priming task. *Perceptual and Motor Skills*, *102*, 219-230.
- Strayer, D. L. & Drews, F. A. (2007). Multi-tasking in the automobile. In A. Kramer, D. Wiegmann & A. Kirlik (Eds.) *Applied Attention: From Theory to Practice*. (pp. 121-133). Oxford University Press.
- Strayer, D. L., & Drews, F. A. (2007). Attention. In F. Durso, R. Nickerson, S. Dumais, S. Lewandowsky and T. Perfect (Eds.), *Handbook of Applied Cognition, Second Edition* (pp. 29-54). John Wiley & Sons, Ltd., West Sussex, UK.
- Strayer, D. L. & Cooper, J. M. (2007). Aging and skill acquisition. In J. E. Birren (Ed.) *Encyclopedia of Gerontology: Age, Aging, and the Aged*, Academic Press, Orlando FL (pp. 490-495).
- Drews, D. A., Picciano, P., Agutter, J., Syroid, N., Westenskow, D. R., & Strayer, D. L. (2007). Development and evaluation of a just-in-time support system. *Human Factors*, *49*, 543-551.
- Strayer, D. L., & Drews, F. A. (2007). Cell-phone induced inattention blindness. *Current Directions in Psychological Science*, *16*, 128-131.
- Cooper, J. M., & Strayer, D. L. (2007). Driving impairments from concurrent cell-phone use do not diminish with practice. *Proceedings of the 51st Annual Meeting of the Human Factors and Ergonomics Society* (pp. 1536-1539).

- Miller, A. E., Strayer, D. L., & Marble, J. L. (2007). Neurotechnology for imagery analysis. *Proceedings of the 51st Annual Meeting of the Human Factors and Ergonomics Society* (pp. 1363-1367).
- Drews, F. A., Pasupathi, M., & Strayer, D. L. (2008). Passenger and cell-phone conversation during simulated driving. *Journal of Experimental Psychology: Applied*, *14*, 392-400.
- Cooper, J. M., & Strayer, D. L. (2008). Effects of simulator practiced and real-world experience on cell-phone related driver distraction. *Human Factors*, *50*, 893-902.
- Johnson, K. B., Syroid, N. D., Drews, F. A., Ogden, L. L., Strayer, D. L., Pace, N. L., Tyler, D. L., White, J. L., & Westenskow, D. R. (2008). Part task and variable priority training in first year anesthesia resident evaluation: A combined didactic and simulation based approach to improve management of adverse airway and respiratory events. *Anesthesiology*, *108*, 831-840.
- Grier, R., Wickens, C., D., Kaber, D., Strayer, D. L., Boehm-Davis, D., Trafton, G. J., & St John, M. (2008). The red-line of workload: Theory, research, and design. *Proceedings of the 52nd Annual Meeting of the Human Factors and Ergonomics Society* (pp. 1204-1208).
- Strayer, D. L., Cooper, J. M., & Drews, F. A. (2009). Profiles in cell-phone induced driver distraction. In D. Fisher, J. Lee, J. Caird, & M. Rizzo (Eds.) *Handbook of Driving Simulation for Engineering, Medicine, and Psychology (Chapter 27)*. CRC Press.
- Drews, F. A., & Strayer, D. L. (2009). Cellular phones and driver distraction. In M.A. Regan, J. D. Lee, & K.L. Young (Eds.) *Driver Distraction: Theory, Effects, and Mitigation (pp. 169-190)*. John Wiley & Sons, Ltd. West Sussex, UK.
- Cooper, J. M., Vladislavjevic, I., Medeiros-Ward, N., Martin, P. T., & Strayer, D. L. (2009). Near the tipping point of traffic stability: An investigation of driving while conversing on a cell phone in simulated highway traffic of varying densities. *Human Factors*, *51*, 261- 268.
- Drews, F. A., Yazdani, H., Godfrey, C., Cooper, J. M., & Strayer, D. L. (2009). Text messaging during simulated driving. *Human Factors*, *51*, 762-770.
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- L. (Under Review). Electrophysiological Measures of Cognition in Nature: The Influence of Technology on Cognitive Restoration.
- Kaufman, E. A., Crowell, S. E., Coleman, J. M., Puzia, M. E., Baucom, B. R., & Strayer, D. L. (Under Review). Electroencephalographic and cardiovascular biomarkers of vulnerability within families of suicidal adolescents.
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Invited Published Commentaries

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- Johnston, K., Drews, F., Strayer, D., Tyler, D., Ogden, L., White, J., Malen, M., Mortensen, W., Lu, E., Larsen, J., Poulson, J., Balakrishnan, S., Lingulta, S., Syroid, N., & Westenskow, D. (2005). Introduction of a part task and variable priority training in first year anesthesia resident education: A combined didactic and simulation based approach to improve management of adverse respiratory events. *Proceedings of the International Meeting on Medical Simulation, Miami, FL*.
- Syroid, N., Tyler, D., Ogden, L., White, J., Drews, F., Strayer, D., Mortenson, W., Malan, M., Lu, E., Larsen, J., Poulson, J., Balakrishnan, S., Lingutla, S., Westenskow, D., & Johnston, K. (2005). Exploration of partial task and variable priority training for anesthesia residents to improve management of adverse respiratory events: Preliminary results. *Proceedings of the International Meeting on Medical Simulation, Miami, FL*.
- Strayer, D. L., & Watson, J. M. (2009). Supertaskers: Extraordinary ability in multi-tasking. *Proceedings of the 50th Annual Meeting of the Psychonomics Society, Boston, MA*.

- Miller, A. E., Watson, J. M., & Strayer, D. L. (2009). Individual differences in cognitive control unveiled by components of the ERP. Proceedings of the 50th Annual Meeting of the Psychonomics Society, Boston, MA.
- Lambert, A. Watson, J. M., & Strayer, D. L., (2010). The roles of working memory capacity, visual attention, and age in driving performance. Proceedings of the 51st Annual Meeting of the Psychonomics Society, San Francisco, CA.
- Logan, G. D., Miller, A. E., & Strayer, D. L. (2011). Electrophysiological evidence for hierarchical error detection in skilled typewriting. Proceedings of the 52nd Annual Meeting of the Psychonomics Society, Seattle, WA.
- Miller, A. E., Strayer, D. L., & Logan, G. D. (2011). Electrophysiological evidence for parallel and serial processing in skilled typewriting. Proceedings of the 52nd Annual Meeting of the Psychonomics Society, Seattle, WA.
- Medeiros-Ward, N., Sanbonmatsu, D. M., Watson, J. M., & Strayer, D. L. (2011). Why we multitask. Proceedings of the 52nd Annual Meeting of the Psychonomics Society, Seattle, WA.
- Heathcote, A., Eidels, A., Strayer, D. L., Coleman, J. & Houpt, J. W. (2013). Capacity and redundant information in working memory. Proceedings of the 54th Annual Meeting of the Psychonomics Society, Toronto, Canada.
- Watson, J. M., Miller, A. E., Moffitt, C., Strayer, D. L., & Lambert, A. E. (2013). To control or not to control: Individual differences in working memory capacity to explore automation and the resolution of the control dilemma. Proceedings of the 54th Annual Meeting of the Psychonomics Society, Toronto, Canada.
- Miller, A. E., Watson, J. M., & Strayer, D. L. (2013). Stop it! Individual differences in working memory capacity predict performance in a stop-signal paradigm. Proceedings of the 54th Annual Meeting of the Psychonomics Society, Toronto, Canada.
- Medeiros-Ward, N., & Strayer, D. L., (2013). Hierarchical control and driving. Proceedings of the 54th Annual Meeting of the Psychonomics Society, Toronto, Canada.

Invited Presentations and Workshops

- Strayer, D. L., & Williams, W. C. (1981). SCORIT 1980. *Paper presented at the twenty-first annual meeting of the Society for Psychophysiological Research, Washington, DC.*
- Williams, W. C., Strayer, D. L., & Macias, A. M. (1981). A tentative comparison of four computing routines for scoring electrodermal data. *Paper presented at the twenty-first annual meeting of the Society for Psychophysiological Research, Washington, DC.*
- Invited participant in the *Seventh Annual Carmel Conference on Cognitive Psychophysiology: Magnetic and electrical event-related brain activity as a tool in the study of cognitive function, Carmel CA (1985).*
- Kramer, A. F., & Strayer, D. L. (1988). Symposium on automatic processing. *Paper presented at the 96th Annual APA Conference, Atlanta, GA.*

- Strayer, D. L., & Kramer, A. F. (1989). Symposium on aging and skill acquisition. *Paper presented at the 97th Annual APA Conference, New Orleans, LA.*
- Kramer, A. F., & Strayer, D. L. (1990). Symposium on automatic information processing: Theory and application. *Paper presented at the 98th Annual APA Conference, Boston, MA.*
- Strayer, D. L., & Kramer, A. F. (1990). Microstrategic behavior: Strategic aspects of skilled performance. *Paper presented at the 34th Annual Human Factors Conference, Orlando, FL.*
- Strayer, D. L. (1993). Primed popout and the power law of attention capture. *Paper presented at the 3rd West Coast Attention Meeting, Eugene, OR.*
- Kramer, A. F., Larish, J. F., & Strayer, D. L. (1994). Training strategies for attentional control in dual-task settings: A comparison of young and old subjects. *Paper presented at the conference on Converging Operations in the Study of Visual Selective Attention, Urbana IL.*
- Schwartz, I. S., Wilson-Leff, C., Malley, G. B., Strayer, D. L., & Johnston, W. A. (1994). ERP indices of novel popout. *Paper presented at the conference on Converging Operations in the Study of Visual Selective Attention, Urbana IL.*
- Malley, G. B., & Strayer, D. L. (1994). Effects of stimulus repetition on positive and negative priming. *Paper presented at the conference on Converging Operations in the Study of Visual Selective Attention, Urbana IL.*
- Strayer, D. L. (1996). Aging and skill acquisition. *Colloquium presented at Brigham Young University. December 2, 1996.*
- Strayer, D. L. (1998) Converging operations in the study of negative priming. *Colloquium presented at the University of Illinois at Urbana-Champaign. June 12, 1998.*
- Strayer, D. L., & Drews, F. A. (2003). Simulation of cell-phone induced driver distraction. *Paper presented at the Society for Automotive Engineering International Government/Industry Meeting, Washington, D.C.*
- Strayer, D. L. (2003). Are we being driven to distraction? *Colloquium presented to General Motors Co., Detroit, MI, June 6, 2003.*
- Strayer, D. L., Drews, F. A., & Johnston, W. A. (2003). Distracted while driving. Invited presentation at the conference on *Cognitive Technology: Transforming Throughout Society*, Winston-Salem State University, NC, June 14, 2003.
- Strayer, D. L. (2003). Why do cell phone conversations interfere with driving? *Colloquium presented at Texas Tech University, Lubbock, TX, November 14, 2003.*
- Strayer, D. L. (2003). Developing Integrated Graphical Support Systems for Anesthesiology: An Interdisciplinary Approach. *Colloquium presented at Texas Tech University, Lubbock, TX, November 14, 2003.*
- Strayer, D. L. (2004). A comparison of the cell phone driver and the drunk driver. Invited presentation at the *Stanford Institute for Economic Policy Research and the AEI-*

- Brookings Joint Center for Regulatory Studies Conference on Communications Policy*, October 9, 2004.
- Strayer, D. L. (2004). Why do cell phone conversations interfere with driving? Invited presentation at Whitman College, October 19, 2004.
- Strayer, D. L. (2005). The logic of the distracted driver. Paper presented at the Transportation Research Board workshop *Development of Standardized Descriptions of Driving Simulator Scenarios: Human Factors Considerations*. Washington D.C., January 9, 2005.
- Strayer, D. L. (2005). Multi-tasking in the automobile: Why do cell phone conversations interfere with driving? Invited keynote presentation at the Mid-South Psychology Conference. Memphis, TN, February 19, 2005.
- Strayer, D. L. (2005). Multi-tasking in the automobile. Invited presentation at the 57th annual meeting of the *American Academy of Forensic Sciences*. New Orleans, LA February 22, 2005.
- Strayer, D. L. (2005). Multi-tasking in the automobile: Cell phones and the distracted driver. Invited presentation at *Attention: From Theory to Practice*, a festschrift in honor of Christopher D. Wickens, Champaign, IL, June 18, 2005.
- Strayer, D. L. (2005). Cell phone use and driver distraction. Invited presentation at the annual meeting of the *Governors Highway Safety Association*, Norfolk, VA, August 29, 2005.
- Strayer, D. L., (2005). Teens and driver distraction. Invited presentation at the annual meeting of the *Biological Basis of Pediatric Practice Symposium "Childhood Injury: Our Largest and Most Deadly Epidemic"*, Park City, UT, September 11, 2005.
- Strayer, D. L., (2005). Driven to Distraction. Invited presentation at the International Conference on Distracted Driving, Toronto, Canada, and October 2, 2005.
- Strayer, D. L. & Drews, F. A. (2005). Technology and driver distraction. Invited presentation at the Utah Public Risk Managers meeting, Sandy, UT October 12, 2005.
- Strayer, D. L. (2005). Cell phones: Assessing the real risks and workable strategies for safety. Invited presentation to the ORC Worldwide Executive Business Issues Forum Meeting, Chicago, IL, October, 13, 2005.
- Strayer, D. L. (2006). Dual-task studies of simulated driving and conversing on a cell phone. Invited colloquium in the Department of Educational Psychology, University of Utah, March 6, 2006.
- Strayer, D. L. (2006). Training strategies to support performance in complex operational environments. Invited presentation to the ORC Worldwide Executive Business Issues Forum Meeting, Ft. Lauderdale, FL, April 6, 2006.
- Strayer, D. L. (2006). Driver perception while conversing on a cell phone. Presentation at the American Psychological Association, August 10, 2006.
- Strayer, D. L. (2006). Cell phones and driver distraction. Presentation at the American Psychological Association, August 11, 2006.

- Strayer, D. L., (2006). Cell Phones and Driver Distraction. Presentation given at the Greater Avenues Community Council, Salt Lake City, UT, September 6, 2006.
- Strayer, D. L. (2006). Multitasking on the Information Superhighway: Why Using a Cell Phone Makes You Drive Like You're Drunk. Grand Rounds, University of Utah, Salt Lake City, UT, November 21, 2006.
- Strayer, D. L. (2007). Cell Phones and Driver Distraction. Presented at the National Safety Council (Traffic Safety Coalition), Washington D.C., February 28, 2007.
- Strayer, D. L. (2007). Multitasking on the Information Superhighway: Why Using a Cell Phone Makes You Drive Like You're Drunk. Invited Rocky Mountain Psychological Association Battig Memorial Lecture, Denver, CO, April 13, 2007.
- Strayer, D. L. (2008). The multitasking teen driver. Invited presentation at the New Mexico Department of Transportation Safety Summit, Albuquerque, NM March 12, 2008.
- Strayer, D. L. (2008). Attention and dual-task control in natural settings. American Psychological Association, Boston, MA, August 17, 2008.
- Strayer, D. L. (2009). The Multi-tasking Driver: Are we being driven to distraction. Invited presentation at Vanderbilt University, Nashville, TN April 1, 2009.
- Strayer, D. L. (2011). Cognitive Distraction While Multitasking in the Automobile. Keynote address at the annual meeting of the Rocky Mountain Psychological Association, Salt Lake City, UT (April 14, 2011).
- Strayer, D. L. (2011). Cognitive Distraction and its Neural Basis. Keynote address at the Second International Conference on Driver Distraction and Inattention, (Gothenburg, Sweden, September 6, 2011).
- Strayer, D. L. (2012). Cell Phones and Other Distractions: Applied Cognitive Neuroscience Research on the Limits of Multitasking Keynote address at the National Institute for Teachers of Psychology (Ft. Lauderdale, FL, January 4, 2012).
- Strayer, D. L. (2012). Who Multitasks and Why? Invited participant at the National Academies Keck Futures Initiative (NAKFI) conference on the Informed Brain in the Digital World, (Irvine, CA, November 15-17, 2012).
- Strayer, D. L. (2013). Multitasking in the Automobile: Lessons From the Road on Limited Capacity Attention. APS-David Myers Distinguished Lecture on the Science and Craft of Teaching Psychology, (Washington D.C., May 24, 2013).
- Strayer, D. L. (2013). Deleterious Effects of Cognitive Distraction in the Vehicle. Briefings to AAA, NHTSA, NTSB, NSC, IIHS, GHSA, and US Congress in Washington D.C. (May 17-June 13).
- Strayer, D. L. (2013). Driver Distraction: Past, Present, and Future. Presented at the 2013 National Safety Council Congress and Exposition, (Chicago, IL, September 30, 2013).
- Strayer, D. L. (2013). Attention and Multitasking: Lessons from the Roadway. Invited Presentation at the Facultad de Psicología, University of Salamanca, (Salamanca, Spain, October 9, 2013).

- Strayer, D. L. (2014). Keynote address at the University of Utah Undergraduate Research Symposium (April 2, 2014).
- Strayer, D. L. (2014). Towards a Theory of Hierarchical Control in Driving. Keynote address at the 28th International Congress of Applied Psychology, (Paris, France, July 9, 2014).
- Strayer, D. L. (2014). Translational Cognitive Neuroscience: Understanding Attention and Multitasking on the Roadway. Invited presentation at the 12th International Congress of Neuroscience, (Brisbane, Australia, July 28, 2014).
- Strayer, D. L. (2014). The Myths of Multitasking. Invited presentation at the first annual Utah Governor's Office of Management and Budget Conference, (Salt Lake City, September 3, 2014).
- Strayer, D. L. (2014). Measuring Cognitive Distraction in the Vehicle: Assessing In-vehicle Voice-based Interactive Technologies. Separate staff briefings to NHTSA, NTSB, Senate Commerce Committee, House Technology and Infrastructure Committee, NSC, IIHS, GHSA, Toyota, Hyundai, Ford, GM, Mercedes, US Auto Alliance, Global Auto Alliance, CITA, Apple in Washington D.C. (September 22-26, 2014).
- Strayer, D. L. (2014). Why Talking to Your Car Drives You to Distraction. Keynote presentation at Belmont University (Nashville, TN, Dec 1, 2014).
- Strayer, D. L. (2015). Driven to Distraction by Talking to Your Car. Keynote address at the 2015 Mind Lecture Series, University of Kansas (Lawrence, KS, February 24, 2015).
- Strayer, D. L. (2015). The Science (and Politics) Behind Distracted Driving. Invited Keynote presentation at Weber State University (Ogden UT, March 19, 2015).
- Invited participant at the National Transportation Safety Board Roundtable on *Disconnecting from Deadly Distractions* held in Washington D.C. (March 31, 2015).
- Invited participant at the National Highway Traffic Safety on *Cognitive Distractions: What Were You Thinking?* held in Washington D.C. (May 12, 2015).
- Strayer, D. L. (2015). Measuring Cognitive Distraction in the Vehicle: Phase III. Separate staff briefings to NHTSA, NTSB, Science, Space, and Technology Committee, Energy and Commerce Committee, NSC, IIHS, GHSA, Toyota, Hyundai, US Auto Alliance, Global Auto Alliance, CITA, Apple and Google in Washington D.C. (October 7-8, & October 19-22).
- Strayer, D. L. (2016). Cognition in the Wild. Invited Keynote presentation at the Nature Bridge *Evening on the Lake* held in Seattle, WA (March 11, 2016).
- Strayer, D. L. (2016). Dashboard Technology: Friend or Foe? National Safety Council Webinar presented on April 16, 2016.
- Strayer, D. L. (2016). Cognition and Nature. Invited Keynote presentation at Colby College, Waterville, ME (April 22, 2016).
- Strayer, D. L. (2016). Why Talking to Your Car Can Drive You to Distraction. Invited Keynote presentation at the 6th International Conference on Traffic and Transportation Psychology, Brisbane, Australia (August 2-5, 2016)

- Strayer, D. L. (2016). Invited Keynote presentation at Wisconsin's 42nd Annual Governor's Conference on Highway Safety, Green Bay, WI (August 24, 2016).
- Strayer, D. L. (2016). Invited speaker at the Inaugural Psychology and U Series, University of Utah, Salt Lake City, UT (October 18, 2016).
- Strayer, D. L. (2016). Invited participant at the White House Roundtable on *The Health Benefits of the Outdoors*, Washington, D.C. (October 20, 2016).
- Strayer, D. L. (2016). The Herschel and Eileen Leibowitz Lecture, Penn State University, State College, PA (November 1, 2016).
- Strayer, D. L. (2016). Invited Keynote presentation at the Australian Cognitive Neuroscience Meeting at Shoal Bay, Australia (November 24, 2016).
- Strayer, D. L. (2017). On the Visual and Cognitive Demands of Using In-Vehicle Information Systems. Separate staff briefings to NHTSA, NTSB, NSC, IIHS, GHSA, Toyota, Hyundai, US Auto Alliance, Global Auto Alliance, and Apple in Washington D.C. (September 7-9, 2017).
- Strayer, D. L. (2017). Invited presentation at the Park City Institute, Park City, UT (September 13, 2017).
- Strayer, D. L. (2017). The Science Behind Cognitive Distraction and Its Impact on Driver Distraction. Keynote presentation at the Network of Employers for Traffic Safety, Charlottesville, VA (October 11, 2017).
- Strayer, D. L. (2017). The Multitasking Driver: Why Talking to Your Car Could Drive You to Distraction. Keynote presentation at the 34th Annual Utah Conference on Safety and Industrial Hygiene, Salt Lake City, UT (October 12, 2017).
- Strayer, D. L. (2017). Restore your brain: Unplug from your digital device and tune into the natural world. TEDxManhattanBeach, Manhattan Beach, CA (November 4, 2017).
- Strayer, D. L. (2018). Emerging technologies influencing distracted driving. Distracted Driving/Pedestrian Safety Summit (event co-sponsored by NHTSA Regions 1 and 2), Providence, RI (April 3, 2018).

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