MICHAEL J. KANE

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Positions

Professor, *University of North Carolina*, Greensboro, NC — 07-09 – present
Associate Professor, *University of North Carolina*, Greensboro, NC — 07/04 – 06/09
Assistant Professor, *University of North Carolina*, Greensboro, NC — 08/00 – 06/04
Assistant Professor, *Georgia State University*, Atlanta, GA — 09/97 – 07/00
Post-doc Research Associate, *University of South Carolina*, Columbia, SC — 08/95 – 08/97
Post-doc Advisor: Dr. Randall Engle

Education

Ph.D., Cognitive Psychology, *Duke University*, Durham, NC — 08/95
Minor in Physiological Psychology
Dissertation: "Semantic priming: An index of response competition in implicit memory"
Dissertation Chair: Dr. Lynn Hasher
B.A., Psychology (Honors), *Haverford College*, Haverford, PA — 05/89

Funded Research Grants

P.I.: *Collaborative Research: The Effects of Mind-Wandering on the Learning and Retention of STEM Content: Experimental and Individual Differences Investigations* — 09/13 – 08/16
National Science Foundation, REAL program (NSF 1252333)
Total costs across both sites = $1,489,382

Co-I.: *Creative Connections: Measuring Imagination with Functional Network Connectivity* — 07/15 – 06/17
Imagination Institute, National Philanthropic Trust, RFP-15-12
Total costs $175,000

Co-I: Self-Efficacy Intervention to Improve STEM Performance — 09/16 – 08/19
National Science Foundation, IUSE program (NSF 1612053)
Total costs $299,937

P.I.: *Executive Control and Schizotypy in the Laboratory and Daily Life* — 08/11 – 07/14
National Institute of Mental Health R15 (MH 093771-01)
Total costs = $418,500

Funded Research Grants (continued)

Co-P.I.: *Understanding the Role of Working Memory Capacity in Complex Task Performance to Improve Sailor and Marine Selection, Classification, & Training* 01/08 – 12/11
ONR; Subcontract Costs = $90, 945

Co-P.I: *Working Memory Capacity and Focused and Sustained Attention* 01/00 – 12/02
AFOSR; Subcontract Costs = $246,889

Co-P.I.: *Working Memory, Controlled Attention, and Task Switching* 01/97 – 12/99
AFOSR; Subcontract Costs = $145,701

Editorial Boards

Associate Editor, *Cognitive Psychology*, 2009-2013
Associate Editor, *Memory and Cognition*, 2005-2008
Consulting Editor, *Journal of Experimental Psychology: General*, 2004-06; 2017-present
Consulting Editor, *Memory and Cognition*, 1999-2004; 2009-present
Consulting Editor, *Psychological Bulletin*, 2014-present
Consulting Editor, *Frontiers in Cognition*, 2012-2015

Publications

Citation counts as of May, 2016: SC (Scopus) / GS (Google Scholar)

Kane, M.J, Gross, G.M., Chun, C.A., Smeekens, B.S., Meier, M.E., Silvia, P.J., & Kwapil, T.R. (in press). For whom the mind wanders, and when, varies across laboratory and daily-life settings. *Psychological Science*.

Rummel, J., Smeekens, B.A., & Kane, M.J. (in press). Dealing with prospective memory demands while performing an ongoing task: Shared processing, increased on-task focus, or both? *Journal of Experimental Psychology: Learning, Memory, and Cognition*.

Redick, T.S., Unsworth, N., Kane, M.J., & Hambrick, D.Z. (in press). Don't shoot the messenger: Still no evidence that video-game experience is related to cognitive abilities--A reply to Green et al. (2017). *Psychological Science*.

Kane, M.J., Meier, M.E., Smeekens, B.A., Gross, G.M., Chun, C.A., Silvia, P.J., & Kwapil, T.R. (2016). Individual differences in the executive control of attention, memory, and thought, and their associations with schizotypy. *Journal of Experimental Psychology: General*. http://dx.doi.org/10.1037/xge0000184

Smeekens, B.A., & Kane, M.J. (2016). Working memory capacity, mind wandering, and creative cognition: An individual-differences investigation into the benefits of controlled versus spontaneous thought. *Psychology of Aesthetics, Creativity, and the Arts, 10*, 389-415.

Publications (continued)

Redick, T.S., Shipstead, Z., Meier, M.E., Montroy, J.J., Hicks, K.L., Unsworth, N., Kane, M.J., Hambrick, D.Z., & Engle, R.W. (2016). Cognitive predictors of a common multitasking ability: Contributions from working memory, attention control, and fluid intelligence. *Journal of Experimental Psychology: General*, 145, 1473-1492.

Meier, M.E., & Kane, M.J. (2015). Carving executive control at its joints: Working memory capacity predicts stimulus-stimulus, but not stimulus-response, conflict. *Journal of Experimental Psychology: Learning, Memory, and Cognition, 41*, 1849-1872. Citations: 0 SC / 1 GS

Frank, D.J., Nara, B., Zavagnin, M., Touron, D.R., & Kane, M.J. (2015). Validating older adults' reports of less mind-wandering: An examination of eye-movements and dispositional influences. *Psychology and Aging, 30*, 266-278. DOI: 10.1037/pag0000031 Citations: 2 SC / 3 GS

Unsworth, N., Redick, T. S., McMillan, B. D., Hambrick, D. Z., Kane, M. J., & Engle, R. W. (2015). Is playing videogames related to cognitive abilities? *Psychological Science, 26*, 759-774. DOI: 10.1177/0956797615570367 Citations: 6 SC / 13 GS

McVay, J.C., & Kane, M.J. (2013). Dispatching the wandering mind? Toward a laboratory method for cuing "spontaneous" off-task thought. *Frontiers in Psychology, 4:570*. doi: 0.3389/fpsyg.2013.00570 Citations: 4 SC / 13 GS

Meier, M.E., & Kane, M.J. (2013). Working memory capacity and Stroop interference: Global versus local indices of executive control. *Journal of Experimental Psychology: Learning, Memory, and Cognition, 39*, 748-759. Citations: 11 SC / 22 GS

Redick, T.S., Shipstead, Z., Harrison, T.L., Hicks, K.L., Fried, D.E., Hambrick, D.Z., Kane, M.J., & Engle, R.W. (2013). No evidence of intelligence improvement after working memory training: A randomized, placebo-controlled study. *Journal of Experimental Psychology: General, 142*, 359-379. Citations: 146 SC / 265 GS

McVay, J.C., Meier, M.E., Touron, D.R., & Kane, M.J. (2013). Aging ebbs the flow of thought: Adult age differences in mind wandering, executive control, and self-evaluation. *Acta Psychologica, 142*, 136-147. Citations: 17 SC / 31 GS

McVay, J.C., Unsworth, N., McMillan, B.D., & Kane, M.J. (2013). Working memory capacity does not always support future-oriented mind wandering. *Canadian Journal of Experimental Psychology, 67*, 41-50. Citations: 7 SC / 17 GS

Beaty, R.E., Smeekens, B.A., Silvia, P.J., Hodges, D.A., & Kane, M.J. (2013). A first look at the role of domain-general cognitive and creative abilities in jazz improvisation. *Psychomusicology, 23*, 262-268. Citations: 0 SC / 11 GS

Kane, M.J., & McVay, J.C. (2012). What mind wandering reveals about executive-control abilities and failures. *Current Directions in Psychological Science, 21*, 348-354.
Citations: 26 SC / 57 GS

Publications (continued)

McVay, J.C., & Kane, M.J. (2012). Drifting from slow to "D'oh!" Working memory capacity and mind wandering predict extreme reaction times and executive-control errors. *Journal of Experimental Psychology: Learning, Memory, and Cognition, 38,* 525-549.
Citations: 49 SC / 88 GS

McVay, J. C., & Kane, M.J. (2012). Why does working memory capacity predict variation in reading comprehension? On the influence of mind wandering and executive attention. *Journal of Experimental Psychology: General, 141,* 302-320. Citations: 71 SC / 136 GS

Redick, T.S., Broadway, J.M., Meier, M.E., Kuriakose, P.S., Unsworth, N., Kane, M.J., & Engle, R.W. (2012). Measuring working memory capacity with automated complex span tasks. *European Journal of Psychological Assessment, 28*, 164-171. Citations: 50 SC / 104 GS

Bailey, H., Dunlosky, J., & Kane, M.J. (2011). Contribution of strategy use to performance on complex and simple span tasks. *Memory & Cognition, 39*, 447-461. Citations: 8 SC / 8 GS

Marcovitch, S., Boseovski, J.J., Knapp, R.J., & Kane, M.J. (2010). Goal neglect and working memory capacity in 4- to 6-year-old children. *Child Development*, *81*, 1687-1695.
Citations: 24 SC / 46 GS

McVay, J.C., & Kane, M.J. (2010). Does mind wandering reflect executive function or executive failure? Comment on Smallwood and Schooler (2006) and Watkins (2008). *Psychological Bulletin, 136*, 188-197. Citations: 129 SC / 234 GS

Kane, M.J., Core, T.J., & Hunt, R.R. (2010). Bias versus bias: Harnessing hindsight to reveal paranormal belief change, beyond demand characteristics. *Psychonomic Bulletin & Review, 17,* 206-212. Citations: 3 SC / 6 GS

McVay, J.C., Kane, M.J., & Kwapil, T.R. (2009). Tracking the train of thought from the laboratory into everyday life: An experience-sampling study of mind-wandering across controlled and ecological contexts. *Psychonomic Bulletin & Review, 16,* 857-863.
Citations: 69 SC / 113 GS

Poole, B.J., & Kane, M.J. (2009). Working memory capacity predicts the executive control of visual search among distractors: The influences of sustained and selective attention. *Quarterly Journal of Experimental Psychology, 62*, 1430-1454. Citations: 45 SC / 74 GS

McVay, J.C., & Kane, M.J. (2009). Conducting the train of thought: Working memory capacity, goal neglect, and mind wandering in an executive-control task. *Journal of Experimental Psychology: Learning, Memory, and Cognition, 35*, 196-204. Citations: 155 SC / 272 GS

Bailey, H., Dunlosky, J., & Kane, M.J. (2008). Why does working memory capacity predict complex cognition? Testing the strategy-affordance hypothesis. *Memory & Cognition*, 36, 1383-1390.
Citations: 29 SC / 40 GS

Publications (continued)

Moore, A.B., Clark, B.A., & Kane, M.J. (2008). Who shalt not kill? Individual differences in working memory capacity, executive control, and moral judgment. *Psychological Science, 19*, 549-557. Citations: 113 SC / 186 GS

Knouse, L.E., Mitchell, J.T., Brown, L.H., Silvia, P.J., Kane, M.J., Myin-Germeys, I., & Kwapil, T.R. (2008). The expression of adult AD/HD symptoms in daily life: An application of experience sampling methodology. *Journal of Attention Disorders, 11*, 652-663. Citations: 20 SC / 39 GS

Kane, M.J., Brown, L.E., Little, J.C., Silvia, P.J., Myin-Germeys, I., & Kwapil, T.R. (2007). For whom the mind wanders, and when: An experience-sampling study of working memory and executive control in daily life. *Psychological Science, 18*, 614-621. Citations: 259 SC / 387 GS

Kane, M.J., Conway, A.R.A., Miura, T.K., & Colflesh, G.J.H. (2007). Working memory, attention control, and the *n*-back task: A question of construct validity. *Journal of Experimental Psychology: Learning, Memory, and Cognition, 33*, 615-622. Citations: 191 SC / 303 GS

Kane, M.J., & Miyake, T.M. (2007). The validity of "conceptual span" as a measure of working memory capacity. *Memory & Cognition, 35*, 1136-1150. Citations: 2 SC / 5 GS

Sobel, K.V., Gerrie, M.P., Poole, B.J., & Kane, M.J. (2007). Individual differences in working memory capacity and visual search: The roles of top-down and bottom-up processing. *Psychonomic Bulletin & Review, 14*, 840-845. Citations: 32 SC / 52 GS

Dunlosky, J., & Kane, M.J. (2007). The contributions of strategy use to working memory span: A comparison of strategy-assessment methods. *Quarterly Journal of Experimental Psychology, 60*, 1227-1245. Citations: 33 SC / 52 GS

Kane, M.J., Poole, B.J., Tuholski, S.W., & Engle, R.W. (2006). Working memory capacity and the top-down control of visual search: Exploring the boundaries of "executive attention." *Journal of Experimental Psychology: Learning, Memory, and Cognition, 32*, 749-777. Citations: 66 SC / 123 GS

Conway, A.R.A., Kane, M.J., Bunting, M.F., Hambrick, D.Z., Wilhelm, O., & Engle, R.W. (2005). Working memory span tasks: A review and a user's guide. *Psychonomic Bulletin and Review, 12*, 769-786. Citations: 772 SC / 1370 GS
6th most cited article ever published by PB&R (of 2,802), per SC

Kane, M.J., Hambrick, D.Z., & Conway, A.R.A. (2005). Working memory capacity and fluid intelligence are strongly related constructs: Comment on Ackerman, Beier, and Boyle (2005). *Psychological Bulletin, 131*, 66-71. Citations: 204 SC / 382 GS

Kane, M.J., Hambrick, D.Z., Tuholski, S.W., Wilhelm, O., Payne, T.W., & Engle, R.W. (2004). The generality of working-memory capacity: A latent-variable approach to verbal and spatial memory span and reasoning. *Journal of Experimental Psychology: General, 133*, 189-217. Citations: 628 SC / 1045 GS
24th most cited article ever published by JEPG (of 1,702), per SC

Publications (continued)

Engle, R.W., & Kane, M.J. (2004). Executive attention, working memory capacity, and a two-factor theory of cognitive control. In B. H. Ross (Ed.), *The Psychology of Learning and Motivation, volume 44* (pp. 145 – 199). New York: Academic Press. Citations: 64 SC / 619 GS

Kane, M.J., & Engle, R.W. (2003). Working-memory capacity and the control of attention: The contributions of goal maintenance, response competition, and task set to Stroop interference. *Journal of Experimental Psychology: General, 132*, 47-70. Citations: 657 SC / 1089 GS
23rd^{h} most cited article ever published by JEPG (of 1,702), per SC

Conway, A.R.A., Kane, M.J., & Engle, R.W. (2003). Working memory capacity and its relation to general intelligence. *Trends in Cognitive Sciences, 7*, 547-552. Citations: 377 SC / 688 GS

Kane, M.J., & Engle, R.W. (2002). The role of prefrontal cortex in working-memory capacity, executive attention, and general fluid intelligence: An individual-differences perspective. *Psychonomic Bulletin and Review, 9*, 637-671. Citations: 838 SC / 1369 GS
5th most cited article ever published by PB&R (of 2,802), per SC

Kane, M.J., Bleckley, M.K., Conway, A.R.A., & Engle, R.W. (2001). A controlled-attention view of working-memory capacity. *Journal of Experimental Psychology: General, 130*, 169-183. Citations: 564 SC / 981 GS
26th most cited article ever published by JEPG (of 1,702), per SC

Kane, M.J., & Engle, R.W. (2000). Working memory capacity, proactive interference, and divided attention: Limits on long-term memory retrieval. *Journal of Experimental Psychology: Learning, Memory, and Cognition, 26*, 336-358. Citations: 300 SC / 532 GS

May, C.P., Hasher, L., & Kane, M.J. (1999). The role of interference in memory span. *Memory and Cognition, 27*, 759-767. Citations: 223 SC / 351 GS

Kane, M.J., May, C.P., Hasher, L., Rahhal, T., & Stoltzfus, E.R. (1997). Dual mechanisms of negative priming. *Journal of Experimental Psychology: Human Perception and Performance, 23*, 632-650. Citations: 142 SC / 191 GS

Hasher, L., Zacks, R.T., Stoltzfus, E.R., Kane, M.J., & Connelly, S.L. (1996). On the timecourse of negative priming: Another look. *Psychonomic Bulletin and Review, 3*, 231-237. Citations: 26 SC / 32 GS

May, C.P., Kane, M.J., & Hasher, L. (1995). Determinants of negative priming. *Psychological Bulletin, 118*, 35-54. Citations: 347 SC / 528 GS

Kane, M.J., & Hasher, L., Stoltzfus, E.R., Zacks, R.T., & Connelly, S.L. (1994). Inhibitory attentional mechanisms and aging. *Psychology and Aging, 9*, 103-112. Citations: 168 SC / 277 GS

Kane, M.J. (1994). Premonitory urges as "attentional tics" in Tourette's Syndrome. *Journal of the American Academy of Child and Adolescent Psychiatry, 33*, 805-808. Citations: 34 SC / 55 GS

Edited Books

Conway, A.R.A., Jarrold, C., Kane, M.J., Miyake, A., & Towse, J.N. (2007). *Variation in Working Memory*. New York: Oxford University Press.

Book Reviews and Brief Commentaries

Kane, M.J. (2011). Describing, debating, and discovering inner experience: Review of Hurlburt and Schwitzgebel (2007), 'Describing Inner Experience? Proponent Meets Skeptic.' *Journal of Consciousness Studies, 18,* 150-164.

Kane, M.J. (2010). Can people's minds be changed? How can we know? *Skeptic, 16*, 28-31.

Conway, A.R.A., Moore, A.B., & Kane, M.J. (2009). Recent trends in the cognitive neuroscience of working memory [Book review of *The Cognitive Neuroscience of Working Memory*]. *Cortex, 45*, 262-268.

Heitz, R.P., Redick, T.S., Hambrick, D.Z., Kane, M.J., Conway, A.R.A., & Engle, R.W. (2006). Working memory, executive function, and general fluid intelligence are not the same. *Behavioral and Brain Sciences, 29*, 135-136.

Kane, M.J. (2003). The intelligent brain in conflict. *Trends in Cognitive Sciences, 7*, 375-377.

Kane, M.J. (2003). A limited perspective on working memory? Review of *Working Memory in Perspective*. *European Journal of Cognitive Psychology, 15*, 313-317.

Kane, M.J., Conway, A.R.A., & Engle, R.W. (1999). What do working memory tests really measure? *Behavioral and Brain Sciences, 22,* 101-102.

Conway, A.R.A., Kane, M.J., & Engle, R.W. (1999). Is Spearman's g determined by speed or working memory capacity? [Review of the book, *The g Factor; The Science of Mental Ability*] *Psycoloquy, 10 (074)*, article 16.

Book Chapters, Encyclopedia Entries, and Non-Reviewed Essays

Meier, M.E., & Kane, M.J. (2017). Attentional control and working memory capacity. In T. Egner (Ed.), *Wiley Handbook of Cognitive Control* (pp. 50-63). New York: Wiley.

Kane, M.J., & Conway, A.R.A. (2016). The invention of n-back: An extremely brief history. *The Winnower, 3:e146722.26397*. doi: 10.15200/winn.146722.26397

McVay, J.C., & Kane, M.J. (2010). Adrift in the stream of thought: The effects of mind wandering on executive control and working memory capacity. In A. Gruszka, G. Matthews, & B. Szymura (Eds.), *Handbook of individual differences in cognition* (pp. 321-334). New York: Springer.

Kane, M.J., & Miyake, T.M. (2008). Individual differences in episodic memory. In H.L. Roediger, III (Ed.), *Cognitive Psychology of Memory* (pp. 773-785). Vol. 2 of *Learning and Memory: A Comprehensive Reference*, 4 vols. (J.Byrne, Editor). Oxford: Elsevier

Book Chapters, Encyclopedia Entries, and Non-Reviewed Essays (continued)

Bunch, R., Nelson, E., Lloyd, R., Kane, M.J., and Tricot, T. (2008). Instructional geographic information science: A multidisciplinary framework for geospatial technologies in education. In A. Milson & M. Alibrandi (Eds), *Digital Geography: Geo-spatial Technologies in the Social Studies Classroom* (pp. 227-245). Greenwich, CT: Information Age Publishing.

Kane, M.J., Conway, A.R.A., Hambrick, D.Z., & Engle, R.W. (2007). Variation in working memory as variation in executive attention and control. In A.R.A. Conway, C. Jarrold, M.J. Kane, A. Miyake, & J.N. Towse (Eds.), *Variation in Working Memory* (pp. 21-48). New York: Oxford University Press. Citations: 330 GS

Conway, A.R.A., Jarrold, C., Kane, M.J., Miyake, A., & Towse, J.N. (2007). Variation in working memory: An introduction. In A.R.A. Conway, C. Jarrold, M.J. Kane, A. Miyake, & J.N. Towse (Eds.), *Variation in Working Memory* (pp. 3-17). New York: Oxford University Press.

Cowan, N., Kane, M.J., Conway, A.R.A., & Ipsa-Cowan, A.J. (2006). Stupid brain! Homer's working memory odyssey. In A. Brown & C. Logan (Eds.), *D'oh! The Psychology of the Simpsons* (pp. 49 – 64). Dallas, TX: BenBella Books.

Kane, M.J., & Gray, J.R. (2006). Fluid intelligence. In N.J. Salkind (Ed.), *Encyclopedia of Human Development*. Thousand Oaks, CA: Sage.

Kane, M.J. (2005). Full frontal fluidity? Looking in on the neuroimaging of reasoning and intelligence. In O. Wilhelm & R.W. Engle (Eds.), *Handbook of Understanding and Measuring Intelligence* (pp. 141-163). Thousand Oaks, CA: Sage.

Hambrick, D.Z., Kane, M.J., & Engle, R.W. (2005). The role of working memory in higher-level cognition: Domain-specific versus domain-general perspectives. In R. Sternberg & J.E. Pretz (Eds.), *Cognition and Intelligence: Identifying the mechanisms of the mind* (pp. 104 – 121). New York: Cambridge University Press.

Conway, A.R.A., & Kane, M.J. (2001). Capacity, control and conflict: An individual differences perspective on attentional capture. In C. Folk and B. Gibson (Eds.), *Attraction, Distraction and Action: Multiple Perspectives on Attention Capture* (pp. 349 – 372). Amsterdam: Elsevier.

Engle, R.W., Kane, M.J., & Tuholski, S.W. (1999). Individual differences in working memory capacity and what they tell us about controlled attention, general fluid intelligence and functions of the prefrontal cortex. In A. Miyake & P. Shah (Eds.), *Models of Working Memory: Mechanisms of Active Maintenance and Executive Control* (pp. 102-134). New York: Cambridge University Press. Citations: 1177 GS

Kane, M.J., & Hasher, L. (1995). Interference. In G. Maddox (Ed.), *The Encyclopedia of Aging* (2nd edition, pp. 514-516). New York: Springer-Verlag.

Invited Papers at Professional Conferences

Kane, M.J. (2016, June). *Individual differences in executive control and mind wandering*. Keynote address at the "Travelling in time" international conference, Aarhus, Denmark.

Kane, M.J. (2015, August). *Where's the "work" in working memory?* G. Stanley Hall Lecture at the annual meeting of the American Psychological Association, Toronto, ON.

Kane, M.J., Gross, G.M., Chun, C.A., Meier, M.E., Smeekens, B.A., Silvia, P.J., Kwapil, T.R. (2015, June). *What do cognitive abilities and schizotypic personality predict about mind wandering experiences in daily life?* Invited paper at the symposium, "Mind Wandering in the Real Word," at SARMAC XI, The Biennial meeting of the Society for Applied Research in Memory and Cognition, Victoria, BC.

Kane, M.J., & McVay, J.C. (2012). *Working memory capacity and the costs of mind wandering*. Invited paper at the Presidential Symposium, "The nature, causes, and effects of mind Wandering" at the annual meeting of the Canadian Society for Brain, Behaviour and Cognitive Science, Kingston, ON.

Kane, M.J. (2010). *Working memory and wandering minds: Thought content as a window into executive-control variation*. Invited talk at the annual meeting of the Association for Psychological Science, Boston, MA.

Kane, M.J., & McVay, J. C. (2009). *Mind wandering contributes to executive-control failure and the worst performance rule*. Invited paper at the symposium, "Wandering minds and brains" at the annual meeting of the Psychonomics Society, Boston, MA.

Kane, M.J. (2008). *Working memory capacity is (little more than) executive attention?!* Keynote address at the 4th European Working Memory Workshop (EWOMS). Bristol, UK.

Kane, M.J. (2008). *Working memory capacity, attention control, and conscious experience*. Invited symposium paper at the XXIX International Conference of Psychology. Berlin, Germany.

McVay, J. C., & Kane, M.J. (2008). *Not quite 'all aboard': Individual differences in working memory capacity and the train of thought*. Invited paper (delivered by J. McVay) at the annual meeting of the Southern Society for Philosophy and Psychology. New Orleans, LA.

Kane, M.J. (2007). *Thinking is for doing: Individual differences in working memory, inattention, and goal-neglect errors*. Invited paper at International Symposium on Executive Function in the Mind, Kyoto, Japan.

Kane, M.J. (2006). *For whom the mind wanders… and when*. Invited symposium paper at the 4th International Conference on Memory (ICOM-4), Sydney, Australia.

Kane, M.J. (2004). *Working-memory capacity and executive control of task-set switching*. Invited paper at the Second International Conference on Working Memory, Kyoto, Japan.

Invited Papers at Professional Conferences (continued)

Kane, M.J., Conway, A.R.A., Hambrick, D.Z., & Engle, R.W. (2003). *Variation in working-memory capacity as variation in executive attention.* Invited paper at the Variation in Working Memory symposium, Chicago, IL.

Kane, M.J. (2003). *Exploring executive control by exploiting individual differences in working-memory capacity*. Invited paper at the International Workshop on Executive Functions, Kyoto, Japan.

Kane, M.J. (2002). *Working-memory capacity as a unitary attentional construct*. Invited paper at the symposium, "Approaches to Cognitive Control and the Central Executive" at the annual meeting of the Psychonomics Society, Kansas City, MO.

Kane, M.J. (2001). *The roles of working-memory capacity, goal maintenance and task set in selective attention*. Invited paper at the South Carolina Bicentennial Symposium on Attention. Columbia, SC.

Kane, M.J. (2000). *Teaching undergraduates to question "weird" beliefs*. Invited paper at the symposium, "Teaching Students to Question Popular Beliefs" at the annual meeting of the Rocky Mountain Psychological Association, Tucson, AZ.

Kane, M.J. (1997). *Exploring the role of attention failure in forgetting*. Invited paper at The Innovationskolleg "Formal Models of Cognitive Complexity," Interdisciplinary Center for Cognitive Studies, Potsdam, Germany.

Engle, R.W., Tuholski, S.W., & Kane, M.J. (1997). *Individual differences in working memory capacity and what they tell us about controlled attention, general fluid intelligence and functions of the prefrontal cortex*. Invited paper at the "Models of Working Memory Symposium," Boulder, CO.

Presentations at Professional Conferences

Kane, M.J., Lurquin, J.H., Silvia, P.J., Smeekens, B.A., Carruth, N.P., & Miyake, A. (2016). *A multi-site investigation of mind wandering in the classroom.* Paper at the annual meeting of the Psychonomics Society, Boston, MA.

Miyake, A., von Bastian, C.C., Smeekens, B.A., Carruth, N.P., & Kane, M.J. (2016). *Reducing mind-wandering and increasing learning: When and for whom utility-value interventions are beneficial*. Paper at the annual meeting of the Psychonomics Society, Boston, MA.

Rummel, J., Smeekens, B.A., & Kane, M.J. (2016). *Towards a better understanding of controlled prospective-memory processing: Shared processing, increased on-task focus, or both?* Paper at the annual meeting of the Psychonomics Society, Boston, MA.

Presentations at Professional Conferences (continued)

Jordano, M.L., Kane, M.J., & Touron, D.T. (2016). *The role of personal concerns in mind wandering experiences across the adult life span*. Paper at the annual meeting of the Psychonomics Society, Boston, MA.

Meier, M.E., Lyons, A.J., Smeekens, B.A., Kwapil, T.R., Silvia, P.J., & Kane, M.J. (2016). *Going deep on the antisaccade: Informing the nature of WMC-related attentional control*. Poster at the annual meeting of the Psychonomics Society, Boston, MA.

Lyons, A.J., Meier, M.E., Smeekens, B.A., Silvia, P.J., Kwapil, T.R., & Kane, M.J. (2016). *Mind wandering: A moderating variable between WMC and habitual response inhibition?* Poster presented at the annual meeting of the Southeastern Psychological Association, New Orleans, LA.

Miyake, A., von Bastian, C.C., Smeekens, B., Lurquin, J., Carruth, N.P., Phillips, N., & Kane, M.J. (2015). *Who mind-wanders most during a lecture? An individual differences analysis*. Paper presented at the annual meeting of the Psychonomics Society, Chicago IL.

Smeekens, B.A., Meier, M.E., & Kane, M.J. (2015). *Do working memory capacity and fluid intelligence predict divergent thinking?* Poster presented at the annual meeting of the Psychonomics Society, Chicago IL.

Miyake, A., Smeekens, B., von Bastian, C.C., Lurquin, J., Carruth, N.P., Phillips, N., & Kane, M.J. (2015). *Mind-wandering during a video lecture and its effect on learning: The roles of individual differences and note-taking*. Paper at SARMAC XI, The Biennial meeting of the Society for Applied Research in Memory and Cognition, Victoria, BC.

Von Bastian, C.C., Miyake, A., Smeekens, B.A., Phillips, N., Lurquin, J., Carruth, N.P., & Kane, M.J. (2015). *Relating monitoring accuracy and learning: A causal model.* Paper at SARMAC XI, The Biennial meeting of the Society for Applied Research in Memory and Cognition, Victoria, BC.

Gross, G.M., Chun, C., Kane, M., Silvia, P.J., Smeekins, B., Meier, M., Kwapil, T.R. (2015). *The inclusion of cognitive dysfunction in the measurement of laboratory and daily-life schizotypy dimensions*. Poster presented at the 2015 meeting of the Society for Research in Psychopathology. New Orleans, LA.

Kane, M.J., Meier, M. E., Smeekens, B.A., Gross, G., Chun, C., Silvia, P.J., & Kwapil, T.R. (2014). *Executive control of memory, attention, and action: Normal and atypical variation.* Paper at the annual meeting of the Psychonomics Society, Long Beach, CA.

Smeekens, B.A., & Kane, M.J. (2013). *Do working memory capacity, mind wandering, and openness predict creative thinking?* Poster at the annual meeting of the Psychonomics Society, Toronto, ON.

Presentations at Professional Conferences (continued)

Smeekens, B.A., Meier, M.E., & Kane, M.J. (2012). *Paying attention to insight and creativity: Contributions of working memory capacity and mind-wandering*. Poster at the annual meeting of the Psychonomics Society, Minneapolis, MN.

Meier, M.E., & Kane, M.J. (2011). *Working memory capacity and resolving stimulus-stimulus and stimulus-response conflict*. Poster at the annual meeting of the Psychonomics Society, Seattle, WA.

Meier, M.E., & Kane, M.J. (2010). *Response set, repetition, and runs moderate working memory capacity's effect on Stroop interference*. Poster at the annual meeting of the Psychonomics Society, St. Louis, MO.

McVay, J.C., Meier, M.E., Touron, D.R., & Kane, M.J. (2009). *The aging of the wandering mind: Task-unrelated versus performance-related thought*. Poster at the annual meeting of the Psychonomics Society, Boston, MA.

Acklin, W.T., Sobel, K.V. & Kane, M.J. (2009). *Is attentional capture modulated by executive processing in working memory?* Poster at the annual meeting of the Association for Psychological Science, San Francisco, CA

Marcovitch, S., Boseovski, J.J., Kane, M.J., & Knapp, R.J. (2009). Goal neglect and working memory in 4- to 6-year-old children. Poster at the biennial meeting of the Society for Research in Child Development, Denver, CO.

McVay, J.C., Kane, M.J., & Kwapil, T.R. (2008). *Sustained-attention failures in the lab predict daily-life mind-wandering rates*. Poster at the annual meeting of the Psychonomics Society, Chicago, IL.

Roth, H., Dunlosky, J., & Kane, M.J. (2008). *Contribution of strategy use to performance on complex and simple span tasks*. Poster at the annual meeting of the Psychonomics Society, Chicago, IL.

McVay, J.C., Knouse, L., Mitchell, J., Brown, L.H., Kane, M.J., & Kwapil, T.R. (2008). *Impaired conductors in the train of thought? Mind-wandering in Attention-Deficit/Hyperactivity Disorder*. Poster at the annual meeting of the Association for Psychological Science, Chicago, IL.

McVay, J.C., & Kane, M.J. (2008). *The wandering mind: When personally relevant information captures attention*. Poster at the annual meeting of the Southeastern Psychological Association, Charlotte, NC.

McVay, J.C., & Kane, M.J. (2007). *Working memory, executive control, and mind-wandering in lab and in life*. Paper at the annual meeting of the Psychonomic Society, Long Beach, CA.

McVay, J.C., & Kane, M.J. (2007). *Individual differences in working memory, sustained attention, and mind wandering*. Paper at the annual meeting of the Midwestern Psychological Association, Chicago, IL.

Presentations at Professional Conferences (continued)

Marcovitch, S., Boseovski, J.J., & Kane, M.J. (2007). *Repeated exposure decreases proactive interference: A test of the hierarchical competing systems model.* Poster at the annual meeting of the Association for Psychological Science, Washington, DC.

Miyake, T., & Kane, M.J. (2006). *Metacognitive monitoring for proactive interference at encoding and retrieval*. Poster at the annual meeting of the Psychonomics Society, Houston, TX.

Moore, A.B., Clark, B., Holmes, S., & Kane, M.J. (2006). Who shalt not kill? Cognitive control and moral reasoning. Poster at the annual meeting of the Psychonomics Society, Houston, TX.

Kane, M.J. (2006). *For whom the mind wanders, and when*. Paper at the annual meeting of the Eastern Psychological Association, Baltimore, MD.

Sobel, K., Gerrie, M., Kane, M.J., & Poole, B.J. (2006). *Working memory capacity influences the top-down factors in visual search*. Poster at the annual meeting of the Vision Sciences Society, Sarasota, FL.

Poole, B.J., & Kane, M.J. (2005). *Working memory capacity and the control of visual search*. Paper at the annual meeting of the Psychonomic Society, Toronto, CA.

Poole, B.J., & Kane, M.J. (2005). *The role of working memory capacity and attention control in visual search*. Poster at the annual meeting of the Midwestern Psychological Association, Chicago, IL.

Miyake, T.M., & Kane, M.J. (2004). *Exploring the "conceptual span" task of semantic working memory*. Poster at the annual meeting of the Psychonomic Society, Minneapolis, MN.

Poole, B.J., Kane, M.J., Tuholski, S.W., & Engle, R.W. (2004). *Working-memory capacity, visual search and enumeration*. Paper at the annual meeting of the Midwestern Psychological Association, Chicago, IL.

Miyake, T.M., & Kane, M.J. (2004). *Does semantic STM capacity play a special role in comprehension?* Paper at the annual meeting of the Midwestern Psychological Association, Chicago, IL.

Miyake, T.M., & Kane, M.J. (2004). *"Conceptual span" as a measure of semantic short-term memory*. Poster at the Second International Conference on Working Memory, Kyoto, Japan.

Kane, M.J., Poole, B.J., Tuholski, S.W., & Engle, R.W. (2003). *Working memory capacity and executive control in search and switching*. Paper at the annual meeting of the Psychonomic Society, Vancouver, Canada.

Kane, M.J., Hambrick, D.Z., Tuholski, S.W., Wilhelm, O., Payne, T., & Engle, R.W. (2002). *The domain-generality of working-memory capacity*. Paper at the annual meeting of the Midwestern Psychological Association, Chicago, IL.

Presentations at Professional Conferences (continued)

Kane, M. J. (2002). *The domain-generality of working-memory capacity*. Paper at the annual meeting of the Southern Society for Philosophy and Psychology, Nashville, TN.

Miura, T.K., Conway, A.R.A., & Kane, M.J. (2002). *Working memory limitations and the N-back task*. Paper at the annual meeting of the Midwestern Psychological Association, Chicago, IL.

Conway, A.R.A., & Kane, M.J. (2001). *ACDC meets ABBA: An experimental task analysis of the N-back*. Paper at the annual meeting of the Psychonomic Society, Orlando, FL.

Kane, M.J., & Engle, R.W. (2000). *Working memory, task set, and Stroop interference in speed and accuracy*. Poster at the annual meeting of the Psychonomic Society, New Orleans, LA.

Kane, M.J., & Engle, R.W. (2000). *Working memory capacity and goal neglect in the Stroop task*. Paper at the annual meeting of the Midwestern Psychological Association, Chicago, IL.

Kane, M.J., Sanchez, A., & Engle, R.W. (1999). *Working memory capacity, intelligence, and goal neglect in the Stroop task*. Poster at the annual meeting of the Psychonomic Society, Los Angeles, CA.

Engle, R.W., Kane, M.J., & Bleckley, M.K. (1999). *A controlled attention view of working memory capacity*. Paper at annual meeting of the Psychonomic Society, Los Angeles, CA.

Kane, M.J., & Engle, R.W. (1999). *Working memory capacity predicts task switching efficiency*. Paper at the annual meeting of the Midwestern Psychological Association, Chicago, IL.

Kane, M.J., & Engle, R.W. (1998). *Working memory capacity corresponds to controlled attention differences*. Poster at the annual meeting of the Psychonomic Society, Dallas, TX.

Kane, M.J., & Engle, R.W. (1998). *Individual differences in working memory, attentional control, and proactive interference*. Paper at the annual meeting of the American Psychological Society, Washington, DC.

May, C.P., Kane, M.J., Hasher, L., & Valenti, M. (1996). *Proactive interference and working memory span*. Paper at the annual meeting of the Psychonomic Society, Chicago, IL.

May, C.P., Kane, M.J., Hasher, L., Multhaup, K., & Valenti, M. (1996). *Working memory span tasks: Capacity or proactive interference?* Paper at biannual Cognitive Aging Conference, Atlanta, GA.

Oswald, K., Hasher, L., Kane, M.J., & May, C.P. (1996). *Is seeing really believing? Effects of repeated exposure on memory for events*. Poster at the annual meeting of the Midwestern Psychological Association, Chicago, IL.

Kane, M.J., & Hasher, L. (1995). *Fan interference is absent in semantic priming*. Poster at the annual meeting of the Psychonomic Society, Los Angeles, CA.

Presentations at Professional Conferences (continued)

Hasher, L., Kane, M.J., May, C.P., Rahhal, T., & Stoltzfus, E.R. (1994). *Dual mechanisms of negative priming: Evidence from aging*. Paper at the biannual Cognitive Aging Conference, Atlanta, GA.

Hasher, L., Kane, M.J., Stoltzfus, E.R., Zacks, R.T., & Connelly, S.L. (1993). *Failures of methodological manipulations to elicit negative priming in older adults*. Poster at the annual meeting of the American Psychological Society, Washington, DC.

Invited Lectures and Colloquia

Kane, M.J. (2017, May). *Individual differences in mind wandering*. SUNY: Albany.

Kane, M.J. (2016, April). *Individual differences in mind wandering in the lab and in daily life: Are there benefits as well as costs?* Claremont Graduate University.

Kane, M.J. (2014, April). *Should we always (or ever) view mind wandering as a sign of executive dysfunction?* University of Colorado at Boulder.

Kane, M.J. (2012, March). *What mind wandering reveals about executive control and its variation*. MIND lecture series, University of Kansas.

Kane, M.J. (2011, December). *What mind wandering reveals about executive-control abilities and failures*. Kent State University.

Kane, M.J. (2011, March). *Laboratory and daily-life investigations of working memory capacity and cognitive control*. Duke University.

Kane, M.J. (2009, April). *Thinking is for doing?* Princeton University.

Kane, M.J. (2008, December). *Tracking the train of thought from the laboratory to everyday life*. UNC:CH

Kane, M.J. (2007 , March). *Individual differences in working memory capacity: Pushing the boundaries of "executive control".* University of Oregon.

Kane, M.J. (2007, February). *For whom the mind wanders, and when: Working memory capacity and thought flow in the laboratory and in life*. University of Missouri: Columbia.

Kane, M.J. (2005, October). *What is working-memory capacity, and why does it matter?* Psi Chi "Psych Talk" series, University of North Carolina at Greensboro.

Kane, M.J. (2005, April). *What is working-memory capacity?* Furman University.

Kane, M.J. (2004, October). *An "executive attention" view of working memory capacity*. North Carolina State University.

Kane, M.J. (2002, April). *The domain-generality of working-memory capacity*. UNC:CH.

Recent Teaching Experience: *University of North Carolina at Greensboro*

FMS 108, Why People Believe "Weird" Things (freshman seminar)
PSY 280, Cognitive Psychology (undergraduate)
PSY 318, Belief in "Weird" Things (undergraduate; **co-developed new course**)
PSY 385, IQ and Intelligence (undergraduate; **developed new course**)
PSY 481, Cognition and Consciousness (undergraduate)
PSY 624, Research Methods in Psychology (graduate)
Graduate Seminars: Working Memory; Interference & Forgetting;
Mind-wandering & Human Error; Variation in Working Memory

Professional Honors, Associations, and Activities

UNCG Research Excellence Award 2014
Association for Psychological Science (Fellow)
Psychonomic Society (Fellow)

Scientific/Program Committee, *2004 International Conference on Working Memory*
Co-Organizer, *Variation in Working Memory Symposium*, July 2003, Chicago, IL
NSF Grant Review Panel
2014: Research on Education and Learning (REAL)

Professional Honors, Associations, and Activities (continued)

NIMH Grant Review Panels
2005, October: Minority Research Infrastructure Support (M-RISP)
2007, October: Special Emphasis, Translational Research in Integrative Behavioral Science
External Consultant: Foundation (Teagle) grant preparation for Associated Colleges of the South, on bridging cognitive science and college educational practices, 2007
Institute Fellow: McDonnell-Pew Summer Institute on Cognitive Neuroscience, 1996
Teaching Fellow: Preparing Future Faculty, American Association of Colleges, 1995
Ad Hoc Reviewer:

- Journal manuscripts: *Acta Psychologica; American Journal of Psychology; Applied Cognitive Psychology; Attention, Perception & Psychophysics; British Journal of Developmental Psychology; British Journal of Psychology; Child Development; Clinical Psychology and Psychotherapy; Cognition; Cognitive Psychology; Consciousness and Cognition; Current Psychology of Cognition; Developmental Psychobiology; European Journal of Cognitive Psychology; Experimental Psychology; Frontiers in Psychology; Intelligence; International Journal of Behavioral Development; Journal of Cognitive Neuroscience; Journal of Gerontology; Journal of Experimental Psychology: General; Journal of Experimental Psychology: Human Perception and Performance; Journal of Experimental Psychology: Learning, Memory, and Cognition; Memory; Memory & Cognition; Neuropsychologia; Neuropsychology; PLoS ONE; Psychological Bulletin; Psychological Review; Psychological Science; Psychology and Aging; Psychonomic Bulletin & Review; Science*
- NSF grant proposals (5)

University Service

University Service:

Research Excellence Awards Committee (Spring 2015)
Graduate Studies Committee (academic years 2011 - 2013)
Institutional Review Board (academic years 2002 – 2004; 2006 – 2009; 2016-present)
University Phon-a-thon (2002; 2009)

College (Arts & Sciences) Service:

Freshman Seminar Advisory Committee (academic years 2002 – 2010)
College Additional Requirements (CAR) Task force (academic year 2006-2007)
Research Assignment Evaluation Committee (Fall 2007, 2008)
Harriet Elliott Lectures Organizing Committee (academic year 2006-2007)

University Service

Department (Psychology) Service:

- Experimental Area Head (Spring 2013 – present)
- Space Committee Chair (Fall 2014 – present)
- Director of Graduate Studies (Summer 2010 – Summer 2013)
- Merit Raise Committee (Spring 2002, 2010, 2012)
- Cognitive Area Head (Summer 2003 – Summer 2005; Summer 2007 - 2010)
- Graduate Studies Committee (2003 –2005; 2007 – 2010; 2013 - present)
- Kendon Smith Lectures Committee (2004 – 2012)
- Chair, Cognitive Faculty Search Committee (Fall 2015 – Spring 2016)
- Chair, Cognitive Faculty Search Committee (Fall 2006 – Spring 2007)
- Chair, Cognitive Faculty Search Committee (Fall 2004 – Spring 2005)
- Subject Pool Coordinator (academic year 2004 – 2005)
- Psychology Head Search Committee (Spring 2003 – Spring 2004)
- Cognitive Faculty Search Committee (Fall 2002 – Spring 2003)
- Undergraduate Program Committee (academic year 2001 – 2002)
- Psi Chi co-advisor (academic years 2000 – 2001, 2001 – 2002)

Accomplishments in Context: Rejections & Failures

Academic

- Rejected by these Cognitive Psychology doctoral programs: *Carnegie Mellon U, Emory U, MIT, McGill U, UC Berkeley, U of Michigan, U of Washington (accepted to U Minnesota but with no funding offer)*
- National Science Foundation: Graduate Research Fellowship: 2 failures, 1991, 1992
- Dept of Defense Science and Engineering Graduate Fellowship: 2 failures, 1991, 1992
- NIH NRSA Individual Postdoctoral Fellowship: 1 failure, 1995

Professional

- Psychonomic Society Leading Edge Workshop: Proposal rejected 2015
- UNCG College of Arts & Sciences Teaching Excellence Award: Nominated, not awarded 2004
- UNCG Research Excellence Award: Nominated, not awarded 2012

Major Grant Proposals

- Air Force Office of Scientific Research, co-investigator, 2004: unfunded
- Center for Consciousness Studies, principal investigator, circa 1997: unfunded
- National Institute of Aging, co-investigator, 2013, 2014: unfunded
- National Institute of Mental Health, co-investigator, 2003, 2004: unfunded
- National Science Foundation, principal investigator, 2005: unfunded
- National Science Foundation, principal investigator, 2007: unfunded
- National Science Foundation, co-investigator, 2007: unfunded
- U. S. Army Research Institute, principal investigator, 2007: unfunded

Accomplishments in Context: Rejections & Failures (continued)

Scientific Peer Review

None of my manuscripts have been accepted upon initial submission

All of these articles were initially rejected by *at least* one prior journal:

Rummel, Smeekens, & Kane (in press, JEP:LMC)
Smeekens & Kane (2016, Psychology of Aesthetics, Creativity, and the Arts)
McVay, Meier, Touron, & Kane (2013, Acta Psychologica)
Kane, Core, & Hunt (2010, Psychonomic Bulletin & Review)
McVay, Kane, & Kwapil (2009, Psychonomic Bulletin & Review)
Poole & Kane (2009, Quarterly Journal of Experimental Psychology)
Bailey, Dunlosky, & Kane (2008, Memory & Cognition)
Dunlosky & Kane (2007, Quarterly Journal of Experimental Psychology
Kane & Engle (2002, Psychonomic Bulletin & Review)
Kane & Engle (2000, JEP:LMC)
Hasher, Zacks, Stoltzfus, Kane, & Connelly (1996, Psychonomic Bulletin & Review)

Three manuscripts that I submitted to multiple journals were never publishable
(including my dissertation work, which I was unable to replicate after initial submission)

Accomplishments in Context: Luck & Privileges

Socio-Economic

I am a white cisgender male

My parents (1st gen college attendees) are well educated: a teacher and a Ph.D. engineer
- I had an early role model for doctoral study

I grew up in an affluent NJ suburb, with excellent, safe, well-funded, and small schools

My parents were able to pay my *full* tuition to an elite liberal arts college

After college graduation, a family connection got me an interview for a market-research job
- That job allowed me to save enough money to need minimal loans for grad school
- That job also augmented my quantitative training and research skill

Professional and Personal

I'm neurodivergent, but without common cognitive/learning-related symptoms

I have had no chronic physical health problems

My wife and I had a long-distance relationship during my first academic position
- Allowed us to be more productive than we would have otherwise

No 2-body problem: my wife has a Ph.D. in an applied field and did not seek academic jobs

My wife chose to take time off and then work part time while our children were young

Accomplishments in Context: Luck & Privileges (continued)

Educational

My small liberal arts college made it extremely easy to get involved in psychological research
I had several caring faculty mentors in college who encouraged me and made science fun
My college major required an empirical senior thesis, which gave me critical experience
My senior thesis advisor (Sidney Perloe) found funds for me to collect extra thesis data
- gave me enough data to present our study as a poster at APS conference

My doctoral advisor (Lynn Hasher) admitted me into her lab even though it was already full
- I've benefited from the strong reputation of my program and my advisor

My doctoral advisor had grant funding to pay me to do research during summers
My doctoral lab was extremely productive and supportive
- there were many projects to learn from and assist with
- in addition to my advisor, two lab-mates who started the program with me (Cindi May; Michelle Carlson) helped my thinking and made my work better

I entered my doctoral advisor's lab soon after she'd published a major theory, and she had good ideas to get me started, so our work got attention from the field
After I graduated, my postdoctoral advisor (Randall Engle) had a grant to pay my salary, despite my failing to win a postdoctoral NIH fellowship (see *Rejections* & *Failures*)
- I've benefitted from the strong reputation of my advisor

My postdoctoral lab was extremely productive and supportive
- I continue to collaborate with colleagues/friends from that lab

I entered my postdoctoral advisor's lab soon after he'd started a novel research program, and he had good ideas to get me started, so our work got attention from the field
I got my first academic position in the same city as my postdoctoral advisor
- allowed us to meet regularly and continue our collaboration
- gave me the opportunity to co-write research grants with him