

Nash Unsworth

Curriculum Vitae—March 2011

Personal Information

Department of Psychology

University of Oregon

Eugene, OR 97403

Email: nashu@uoregon.edu

Education

Ph.D., 2006 Georgia Institute of Technology, Atlanta, Georgia

Cognitive and Brain Sciences/Experimental Psychology

Minor: Quantitative

M.S., 2003 Georgia Institute of Technology, Atlanta, Georgia

Cognitive and Brain Sciences/Experimental Psychology

B.S., 2001 Idaho State University, Pocatello, Idaho

Major: Psychology

Minor: Sociology

Positions

2010-Present Assistant Professor, University of Oregon

2006-2010 Assistant Professor, University of Georgia

2006 Instructor, Emory University

2004-2006 Graduate Student Instructor, Georgia Institute of Technology

Publications

- Unsworth, N., Spillers, G.J., Brewer, G.A., & McMillan, B.D. (in press). Attention Control and the Antisaccade Task: A Response Time Distribution Analysis. *Acta Psychologica*.
- Faraco, C.C., Unsworth, N., Langley, J., Terry, J.D., Li, K., Zhang, D., Liu, T., Miller, L.S. (in press). Complex span tasks and hippocampal recruitment during working memory. *NeuroImage*.
- Unsworth, N., Brewer, G.A., & Spillers, G.J. (in press). Inter- and Intra individual variation in immediate free recall: An examination of serial position functions and recall initiation strategies. *Memory*.
- Spillers, G.J. & Unsworth, N. (in press). Are the costs of directed forgetting due to failures of sampling or recovery? Exploring the dynamics of recall in list-method directed forgetting. *Memory & Cognition*.
- Spillers, G. J., Brewer, G. A., & Unsworth, N. (in press). Working memory and information processing. *Encyclopedia of the Sciences of Learning*.
- Unsworth, N., Spillers, G.J., & Brewer, G.A. (in press). Variation in verbal fluency: A latent variable analysis of switching, clustering, and overall performance. *Quarterly Journal of Experimental Psychology*.
- Unsworth, N., Brewer, G.A., & Spillers, G.J. (in press). Individual differences in working memory capacity and forgetting over both the short and the long-term: An application of the Population Dilution model. *Journal of Cognitive Psychology*.
- Unsworth, N., & Spillers, G.J. (2010). Working memory capacity: Attention,

- Memory, or Both? A direct test of the dual-component model. *Journal of Memory and Language*, 62, 392-406.
- Unsworth, N. (2010). On the division of working memory and long-term memory and their relation to intelligence: A latent variable analysis. *Acta Psychologica*, 134, 16-28.
- Unsworth, N., & Spillers, G.J. (2010). Variation in working memory capacity and episodic recall: The contributions of strategic encoding and contextual-retrieval. *Psychonomic Bulletin & Review*, 17, 200-205.
- Brewer, G.A., Knight, J.B., Marsh, R.L. & Unsworth, N. (2010). Individual differences in event-based prospective memory: Evidence for multiple processes supporting cue detection. *Memory & Cognition*, 38, 304-311.
- Unsworth, N., Brewer, G.A., & Spillers, G.J. (2010). Understanding the dynamics of correct and error responses in free recall: Evidence from externalized free recall. *Memory & Cognition*, 38, 419-430.
- Unsworth, N., & Brewer, G.A. (2010). Variation in working memory capacity and intrusions: Differences in generation or editing? *European Journal of Cognitive Psychology*, 22, 990-1000.
- Unsworth, N. (2010). Interference control, working memory capacity, and cognitive abilities: A latent variable analysis. *Intelligence*, 38, 255-267.
- Unsworth, N., Spillers, G.J., & Brewer, G.A. (2010). The contributions of primary and secondary memory to working memory capacity: An individual differences analysis of immediate free recall. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 36, 240-247.

- Unsworth, N., & Brewer, G.A. (2010). Individual differences in false recall: A latent variable analysis. *Journal of Memory & Language*, 62, 19-34.
- Unsworth, N., Redick, T.S., Lakey, C.E., Young, D.L. (2010). Lapses in sustained attention and their relation to executive and fluid abilities: An individual differences investigation. *Intelligence*, 38, 111-122.
- Gibson, B.S., Gondoli, D.M., Flies, A.C., Dobrzanski, B.A., & Unsworth, N. (2010). Application of the dual-component model of working memory to ADHD. *Child Neuropsychology*, 16, 60-79.
- Unsworth, N., & Brewer, G.A. (2009). Examining the Relationships Among Item Recognition, Source Recognition, and Recall from an Individual Differences Perspective. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 35, 1578-1585.
- Unsworth, N., Spillers, G.J., & Brewer, G.A. (2009). Examining the relations among working memory capacity, attention control, and fluid intelligence from a dual-component framework. *Psychology Science Quarterly*, 51, 388-402.
- Unsworth, N., Brewer, G.A., & Spillers, G.J. (2009). There's more to the working memory-fluid intelligence relationship than just secondary memory. *Psychonomic Bulletin & Review*, 16, 931-937.
- Unsworth, N., Miller, J.D., Lakey, C.E., Young, D.L., Meeks, J.T., Campbell, W.K., & Goodie, A.S. (2009). Exploring the relations among executive functions, fluid intelligence, and personality. *Journal of Individual Differences*, 30, 194-200.
- Unsworth, N., Redick, T.S., Heitz, R.P., Broadway, J., & Engle, R.W. (2009).

- Complex working memory span tasks and higher-order cognition: A latent variable analysis of the relationship between processing and storage. *Memory*, 17, 635-654.
- Unsworth, N. (2009). Variation in working memory capacity, fluid intelligence, and episodic recall: A latent variable examination of differences in the dynamics of free recall. *Memory & Cognition*, 37, 837-849.
- Unsworth, N. (2009). Examining variation in working memory capacity and retrieval in cued recall. *Memory*, 17, 386-396.
- Unsworth, N. (2009). Individual differences in self-initiated processing at encoding and retrieval: A latent variable analysis. *Quarterly Journal of Experimental Psychology*, 62, 257-266.
- Unsworth, N., Heitz, R.P., & Parks, N.A. (2008). The importance of temporal distinctiveness for forgetting over the short-term. *Psychological Science*, 19, 1078-1081.
- Unsworth, N. (2008). Exploring the retrieval dynamics of delayed and final free recall: Further evidence for temporal-contextual search. *Journal of Memory and Language*, 59, 223-236.
- Unsworth, N., & Engle, R.W. (2008). Speed and accuracy of accessing information in working memory: An individual differences investigation of focus switching. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 34, 616-630.
- Unsworth, N. (2007) Individual differences in working memory capacity and episodic retrieval: Examining the dynamics of delayed and continuous distractor free

- recall. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 33, 1020-1034.
- Unsworth N., & Engle, R.W. (2007). On the division of short-term and working memory: An examination of simple and complex spans and their relation to higher-order abilities. *Psychological Bulletin*, 133, 1038-1066.
- Unsworth, N., & Engle, R.W. (2007). Individual differences in working memory capacity and retrieval: A cue-dependent search approach. In James S. Nairne (Ed). *The foundations of remembering: Essays in honor of Henry L. Roedgier III*. NY: Psychology Press.
- Unsworth, N., & Engle, R.W. (2007). The nature of individual differences in working memory capacity: Active maintenance in primary memory and controlled search from secondary memory. *Psychological Review*, 114, 104-132.
- Unsworth, N., & Engle, R.W. (2006a). A temporal-contextual retrieval account of complex span: An analysis of errors. *Journal of Memory and Language*, 54, 346-362.
- Unsworth, N., & Engle, R.W. (2006b). Simple and complex memory spans and their relation to fluid abilities: Evidence from list-length effects. *Journal of Memory and Language*, 54, 68-80.
- Heitz, R.P., Unsworth, N., & Engle, R.W. (2005) Working memory capacity, attention, and fluid intelligence. In O. Wilhelm & R.W. Engle (Eds.) *Understanding and measuring intelligence*. NY: Sage.
- Unsworth, N., & Engle, R.W. (2005). Working memory capacity and fluid abilities: Examining the correlation between operation span and raven. *Intelligence*, 33,

67-81.

- Unsworth, N., & Engle, R.W. (2005) Individual differences in working memory capacity and learning: Evidence from the serial reaction time task. *Memory & Cognition*, 33, 213-220.
- Unsworth, N., Heitz, R.P., Schrock, J.C., & Engle, R.W. (2005) An automated version of the operation span task. *Behavior Research Methods*, 37, 498-505.
- Unsworth, N., Heitz, R.P., & Engle, R.W. (2005). Working memory capacity in hot and cold cognition. In R.W. Engle, G. Sedek, U. Hecker, & D.N. McIntosh (Eds.) *Cognitive limitations in aging and psychopathology: Attention, working memory, and executive functions*. NY: Oxford University Press.
- Unsworth, N., Schrock, J.C., & Engle, R.W. (2004) Working memory capacity and the antisaccade task: Individual differences in voluntary saccade control. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 30, 1302-1321.

Submitted Manuscripts

- Unsworth, N., Spillers, G.J., & Brewer, G.A. Working memory capacity and retrieval limitations from long-term memory: An examination of differences in availability and accessibility.
- Unsworth, N., Brewer, G.A., & Spillers, G.J. Factors that influence search termination decisions in free recall: An examination of response type and confidence.
- Unsworth, N., Spillers, G.J., & Brewer, G.A. The role of working memory capacity in autobiographical retrieval: Individual differences in strategic search.

Unsworth, N., Spillers, G.J., & Brewer, G.A. Evidence for noisy contextual search:
Examining the dynamics of list-before-last recall.

Unsworth, N., Redick, T.S., Spillers, G.J., & Brewer, G.A. Variation in working memory
capacity and cognitive control: Goal maintenance and micro-adjustments of
control.

Unsworth, N., Spillers, G.J., & Brewer, G.A. Dynamics of context-dependent recall:
An examination of internal and external context change.

Talks and Presentations

Unsworth, N., Schrock, J.C., Heitz, R.P., & Engle, R.W. (2003, June). An automatic
version of the operation span. Poster presented at the annual meeting of the
American Psychological Society, Atlanta, GA.

Unsworth, N. (2003, March). On the correlation between Ospan and Ravens: A post-
hoc analysis. Talk given at weekly Cognitive Seminar at Georgia Institute of
Technology.

Unsworth, N. (2003, October). Working memory capacity and speed: Some
preliminary results. Talk given at weekly Cognitive Seminar at Georgia Institute
of Technology.

Unsworth, N. & Engle, R.W. (2004, May). Verbal working and short-term memory
spans and fluid abilities: Evidence from list-length effects. Talk given
at the annual meeting of the Midwestern Psychological Association, Chicago, IL.

Unsworth, N. & Engle, R.W. (2004, August). Working memory capacity and learning
in the serial reaction time task. Poster presented at the annual meeting of the

American Psychological Association, Honolulu, HI.

Unsworth, N., Heitz, R.P., Schrock, J.C., & Engle, R.W. (2004, November). An automated version of the operation span task. Talk given at the annual meeting of SCiP, Minneapolis, MN.

Unsworth, N., & Engle, R.W. (2004, November). Individual differences in WM capacity: size of focus or retrieval? Talk given at the annual meeting of the Psychonomic Society, Minneapolis, MN.

Unsworth, N. (2005, February). Individual differences in WM capacity: size of focus or retrieval? Talk given at weekly Cognitive Seminar at Georgia Institute of Technology.

Unsworth, N. (2005, October). Working memory capacity and episodic retrieval: Examining the dynamics of free recall. Talk given at weekly Cognitive Seminar at Georgia Institute of Technology.

Teaching Experience

2008, Fall Cognitive Neuroscience of Memory Seminar, University of Georgia,
Athens, Georgia

2008, Fall Graduate Cognitive Psychology, University of Georgia, Athens, Georgia

2008, Spring Undergraduate Cognitive Psychology, University of Georgia, Athens,
Georgia

2007, Fall Nature of Working Memory Seminar, University of Georgia, Athens,
Georgia

2007, Fall Graduate Cognitive Psychology, University of Georgia, Athens, Georgia

2007, Spring Undergraduate Cognitive Psychology, University of Georgia, Athens,
Georgia

2006, Fall Graduate Cognitive Psychology, University of Georgia, Athens, Georgia

2006, Spring Human learning and memory, Emory University, Atlanta Georgia

2006, Spring Introductory psychology, Georgia Institute of Technology, Atlanta
Georgia

2005, Fall Introductory psychology, Georgia Institute of Technology, Atlanta
Georgia

2005, Spring Introductory psychology, Georgia Institute of Technology, Atlanta
Georgia

Professional Affiliations

2002 - present Midwestern Psychological Association

2003 – present American Psychological Society

2004 – present American Psychological Association

2006 – present Psychonomic Society, Member

Funded Research Grants

Co-P.I: Understanding the Role of Working Memory Capacity in Complex Task
Performance to Improve Selection, Classification, and Training (1/01/09-12/31/11)
ONR; Subcontract Costs = \$65,639

Honors and Distinctions

New Investigator Award, American Psychological Association, Division 3, for an article appearing in *Journal of Experimental Psychology: Learning, Memory, & Cognition*, 2008

Graduate Teacher Award, Department of Psychology, University of Georgia, 2009

Graduate Teacher Award, Department of Psychology, University of Georgia, 2010

Consulting Editor

Journal of Memory and Language

Psychonomic Bulletin & Review

Ad hoc reviewer

Acta Psychologica; Aging, Neuropsychology and Cognition; American Journal of Psychology; Behavior Research Methods; Brain & Cognition; Child Development; Current Directions in Psychological Science; Developmental Science; European Journal of Aging; European Journal of Cognitive Psychology; Experimental Brain Research; Experimental Psychology; Intelligence; Journal of Cognitive Neuroscience; Journal of Experimental Psychology: General; Journal of Experimental Psychology: Learning, Memory, & Cognition; Journal of Experimental Psychology: Applied; Journal of the American Medical Association; Journal of Experimental Child Psychology; Journal of Eye Movement Research; Journal of Memory and Language; Memory; Memory &

Cognition; Neuropsychology; Learning & Individual Differences; Learning & Memory; Personality and Individual Differences; Psychological Review; Psychological Reports; Psychological Research; Psychological Science; Psychology & Aging; Psychonomic Bulletin & Review; Quarterly Journal of Experimental Psychology; Swiss Journal of Psychology; Thinking & Reasoning; Trends in Cognitive Science