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Duke University
Center for Cognitive Neuroscience
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EDUCATION

- Jan. 2002-May 2004 Catholic University of America, Washington, D.C.
Ph.D., Experimental Psychology, *With Distinction*
Advisor; James H. Howard, Jr., Ph.D.
Ph.D. Dissertation: Age deficits in implicit sequence learning with response remapping
Committee: Darlene Howard; Raja Parasuraman; Pamela Greenwood
- Sept. 1999-Dec. 2001 Catholic University of America, Washington, D.C.
M.A., Experimental Psychology
Master's Thesis: Age-related deficits in implicit learning of auditory sequences
Advisor; James H. Howard, Jr., Ph.D.
- Sept. 1993-May 1997 University of Rochester, Rochester, New York
B.A., Brain & Cognitive Sciences, *With Honors*; B.A., Psychology
Honor's Thesis: The effect of amphetamine on the acoustic startle response and pre-pulse inhibition in the mouse
Advisor: James R. Ison, Ph.D.

ACADEMIC and PROFESSIONAL EXPERIENCE

- July 2004 - Center for Aging and Human Development, Duke Medical Center
& Center for Cognitive Neuroscience, Duke University
Postdoctoral Research Fellow
- Fall 2002; Fall 2003 Catholic University of America, Department of Psychology, Teaching Assistant,
Cognitive Psychology (376) and Instructor, Lab in Cognitive Psychology (476)
- Spring 2003 Catholic University of America, Department of Psychology, Teaching Assistant,
Sensation & Perception (371) and Instructor, Lab in Sensation & Perception (471)
- Fall 2001 Catholic University of America, Department of Psychology, Teaching Assistant,
Statistics (322)
- 1999-2004 Catholic University of America, Cognitive Aging Laboratory, Graduate Research
Assistant
- 1997-1999 Eunice Kennedy Shriver Center for Mental Retardation, Inc., Research Assistant
- 1996-1997 University of Rochester, Department of Brain and Cognitive Sciences, Undergraduate
Research Assistant

HONORS

- 2005 T32 Postdoctoral Training Fellowship, Center for Aging and Human Development, Duke
University Medical Center

2004	Completion of Ph.D. Oral Exam with Distinction
2004	American Psychological Association Dissertation Award (& stipend)
2002	Fellow, Summer Institute in Cognitive Neuroscience, Dartmouth College
2002	Completion of Ph.D. Comprehensive Examination with Honors
1993-1997	University of Rochester Trustees' Scholarship

PUBLICATIONS

Daselaar, S., **Dennis, N.**, Cabeza, R. (in press). Age-related changes in the neural substrates of episodic and working memory. Functional neuroimaging evidence. In S. Rombouts, F. Barkhof, and P. Scheltens (Eds.). *Clinical Applications of Functional Brain MRI*, Oxford University Press.

Howard, J.H., Jr., Howard, D.V., **Dennis, N. A.**, Yankovich, H., & Vaidya, C.J. (2004). Implicit spatial contextual learning in healthy aging. *Neuropsychology*, 18(1): 124-134.

Dennis, N. A., Howard, J. H., Jr., & Howard, D. V. (2003). Age-related deficits in learning sequences of spoken words. *Journal of Gerontology B: Psychological Sciences*, 58: 224-227

Carlin, M. T., Soraci, S. A., Strawbridge, C. P., **Dennis, N. A.**, Loiselle, R., Chechile, N. A (2003). Detection of changes in naturalistic scenes: Evidence of intelligence-related differences. *American Journal on Mental Retardation*, 108(3): 181-193.

Mackay, H. A., Soraci, S. A., Carlin, M. T., **Dennis, N. A.**, & Strawbridge, C. P. (2002). Guiding visual attention during acquisition of matching to sample. *American Journal on Mental Retardation*, 107(6): 445-454.

Carlin, M. T., Soraci, S. A., **Dennis, N. A.**, Strawbridge, C., & Chechile, N. A. (2002). Guided visual search in individuals with mental retardation. *American Journal on Mental Retardation*, 107(4): 237-251.

Dennis, N. A., Howard, J. H., Jr., Howard, D. V. (2001). Age-related deficits in implicit learning of auditory sequences. *Journal of Cognitive Neuroscience Supplement*, 12, 68.

Carlin, M. T., Soraci, S. A., **Dennis, N. A.**, Chechile, N. A., & Loiselle, R. C. (2001). Enhancing free recall rates of individuals with mental retardation. *American Journal on Mental Retardation*, 106(4): 314-326.

CONFERENCE PROCEEDINGS

Dennis, N. A., Daselaar, S., Cabeza, R. (2005). Distinguishing age-related changes in transient vs. sustained successful encoding activity using a hybrid fMRI approach. Poster presented at the 34th Annual Society for Neuroscience Conference, Washington, DC.

Howard, J. H., Jr., Howard, D. V., Yankovich, H., & Dennis, N. A. (2004). Does degrading visual displays mimic age-related implicit sequence learning deficits? Poster presented at the 57th Gerontological Society of America Annual Meeting, Washington, D. C.

Howard, J. H., Jr., Kelly, A. J., Dennis, N. A., Vaidya, C., Barr, R., & Howard, D. V. (2004) Age-related deficits in implicit learning of higher-order sequential structure in the absence of motor sequencing. Poster presented at the 10th Cognitive Aging Conference, Atlanta, GA.

Dennis, N. A., Howard, J. H., Jr., & Howard, D. V. (2003). Implicit learning of higher order auditory sequences with response remapping in young and elderly adults. Poster presented at the 10th Annual Cognitive Neuroscience Society Conference, New York, NY.

Dennis, N. A., Howard, J. H., Jr., Howard, D. V., Coyle, M., Lynch, B., & Bradley, N. (2003). Implicit higher-order sequence learning by event observation. Poster presented at the 74th Annual Eastern Psychological Association Conference, Baltimore, MD.

Dennis, N. A., La Vine, S.P., Howard, D. V., Howard, J. H., Jr. (2002). Aging and implicit learning of a simple regularity: Evidence for learning independent of stimulus characteristics. Poster presented at the 55th Gerontology Society of America Annual Meeting, Boston, MA.

Dennis, N. A., Howard, J. H., Jr., & Howard, D. V. (2002). Implicit sequence learning with response remapping in young and elderly adults. Poster presented at the 32nd Annual Society For Neuroscience Conference, Orlando, FL.

Howard, J. H., Jr., Howard, D. V., Dennis, N. A., Vaidya, C., & Japikse, K. C. (2002). Perceptual learning of visual context in healthy elderly. Poster presented at the 9th Cognitive Aging Conference, Atlanta, GA.

Howard, D. V., La Vine, S. P., Dennis, N. A., Howard, J. H., Jr. (2001). Aging and implicit learning of a simple positional/sequential regularity. Poster presented at the 31st Annual Society For Neuroscience Conference,

San Diego, CA.

Yamada, H. M., Dennis, N. A., Howard, J. H., Jr., & Howard, D. V. (2001). The influence of event duration variability on the implicit learning of serial patterns. Poster presented at the 72nd Annual Eastern Psychological Association Conference, Washington, D.C.

Dennis, N. A., Howard, J. H., Jr., & Howard, D. V. (2001). Age -related deficits in implicit learning of auditory sequences. Poster presented at the 8th Annual Cognitive Neuroscience Society Conference, New York, NY.

Carlin, M. T., Soraci, S. A., Dennis, N. A., & Chechile, N. A. (1999). Guided visual search. Paper presented at the 32nd Annual Gatlinburg Conference on Research and Theory in Mental Retardation and Developmental Disabilities, Charleston, SC.

Soraci, S. A., Dennis, N. A., Carlin, M. T., & Chechile, N. A. (1999). Enhancing free recall in individuals with mental retardation. Paper presented at the 32nd Annual Gatlinburg Conference on Research and Theory in Mental Retardation and Developmental Disabilities, Charleston, SC.

Mackay, H. A., Soraci, S. A., Carlin, M. T., Chechile, N. A., & Dennis, N. A. (1999). Guiding visual attention in young children. Paper presented at the 32nd Annual Gatlinburg Conference on Research and Theory in Mental Retardation and Developmental Disabilities, Charleston, SC.

Carlin, M. T., Soraci, S. A., Chechile, N., & Dennis, N. (1998, March). Facilitating visual attention. In W. J. McIlvane (Chair), Studies of stimulus control in mental retardation: Integrating methods and perspectives. Symposium conducted at the 31st Annual Gatlinburg Conference on Research and Theory in Mental Retardation and Developmental Disabilities, Charleston, SC.