

Kathleen M. Arnold

Curriculum Vitae

Duke University
Department of Psychology and Neuroscience
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Professional Experience

Postdoctoral Research Associate, 2013 – present
Psychology & Neuroscience, Duke University
Sponsor: Elizabeth J. Marsh

Education

Ph.D., Washington University in St. Louis, 2013
“The enhancing effect of retrieval on subsequent encoding: Understanding test-potentiated learning”
Dissertation Committee: Kathleen B. McDermott (chair), Henry L. Roediger, III, David A. Balota, Mark A. McDaniel, Joe Barcroft, Susan M. Fitzpatrick

M.A., Washington University in St. Louis, 2009
“Location familiarity mediates differences in vividness of events imagined in the near and far future”
Advisor: Kathleen B. McDermott

B.S., Psychology, Furman University, 2007 (summa cum laude)

Grants

Co-PI, Spencer Foundation Grant 201400198
“Building a better reader: Activating knowledge through retrieval”
\$49,110 direct costs; 5/1/14 – 4/30/16

Co-PI, Spencer Foundation, Under Review
“Understanding the struggling reader: Identifying specific deficits in text comprehension”

Honors & Awards

Women in Cognitive Science Travel and Networking Award for Junior Scientists, 2016
American Psychological Association Science Directorate Dissertation Award, 2012
Dean’s Dissertation Fellowship, Washington University in St. Louis, 2012 – 2013
Research Fellowship, Training at the Interface of Psychology, Neuroscience, and Genetics, NIH Institute of General Medical Sciences, 2010 – 2012

Honorable Mention, National Science Foundation Graduate Research Fellowship, 2008
Phi Beta Kappa Society
Outstanding Professional Paper award (co-author), Southeastern Psychology Association
conference, 2006

Publications

Journal Articles

Arnold, K. M., Umanath, S., Thio, K., Reilly, W., McDaniel, M. & Marsh, E. J. (in press) Understanding the cognitive processes involved in writing to learn: The role of retrieval processes. *Journal of Experimental Psychology: Applied*

Arnold, K. M., Daniel, D. B., Jensen, J., McDaniel, M., & Marsh, E. J. (2016). Structure building predicts grades in college psychology and biology. *Applied Cognitive Psychology, 30*, 454-459.

Marsh, E. J., **Arnold, K. M.**, Smith, M. A., & Stromeier, S. L. (2015). How psychological science can improve our classrooms: Recommendations should bridge the laboratory and classroom. *Translational Issues in Psychological Science, 1*, 127-129.

Mullet, H. G., Scullin, M. K., Hess, T. J., Scullin, R. B., **Arnold, K. M.**, & Einstein, G. O. (2013). Prospective memory and aging: Evidence for preserved spontaneous retrieval with exact but not related cues. *Psychology and Aging, 28*, 910-922.

Nelson, S. M, **Arnold, K. M.**, Gilmore, A. W., & McDermott, K. B. (2013). A neural signature of test-potentiated learning in parietal cortex. *Journal of Neuroscience, 33*, 11754-11762.

Arnold, K. M., McDermott, K. B. (2013). Free recall enhances subsequent learning. *Psychonomic Bulletin & Review, 20*, 507-513.

Arnold, K. M., & McDermott, K. B. (2013). Test-potentiated learning: Distinguishing between direct and indirect effects. *Journal of Experimental Psychology: Learning, Memory, & Cognition, 39*, 940-945.

Roediger, H. L., & **Arnold, K. M.** (2012). The one-trial learning controversy and its aftermath: Remembering Rock (1957). *American Journal of Psychology, 125*, 127-143.

Arnold, K. M., McDermott, K. B., & Szpunar, K. K. (2011). Imagining the near and far future: The role of location familiarity. *Memory and Cognition, 39*, 954-967.

Arnold, K. M., McDermott, K. B., & Szpunar, K. K. (2011). Individual differences in time perspective predict auto-noetic experience. *Consciousness and Cognition, 20*, 712-719.

Book Chapters

Marsh, E. J., & **Arnold, K. M.** (in press). Retelling experiences and writing essays: How story telling impacts learning and memory. Invited chapter to appear in H. Taylor & J. Zacks (Eds.), *Festschrift for Barbara Tversky*.

Arnold, K. M., & Szpunar, K. K. (2015). Differences in time perspective predict differences in future simulation. In M. Stolarski, N. Fieulaine, & W. van Beek (Eds.), *Time Perspective Theory; Review, Research, and Application: Essays in Honor of Philip G. Zimbardo* (p. 257-268). New York: Springer.

McDermott, K. B., **Arnold, K. M.**, & Nelson, S. M. (2013). The testing effect. In T. Perfect & L. Stephen (Eds.), *The Sage Handbook of Applied Memory* (p. 183-200). Los Angeles: Sage.

McDermott, K. B., Szpunar, K. K., & **Arnold, K. M.** (2011). Similarities in episodic future thought and remembering: The importance of contextual setting. In M. Bar (Ed.), *Predictions in the brain: Using our past to generate a future* (p. 83-94). New York: Oxford University Press.

Manuscripts In Preparation

Arnold, K. M., & McDermott, K. B. (in preparation). The effect of prior testing on subsequent study strategies. (*draft available on request*)

Arnold, K. M., Umanath, S., & Marsh, E. J. (in preparation). Discrepancy detection: Catching contradictions with knowledge vs. recent events.

Arnold, K. M., & Marsh, E. J. (in preparation). The power of crowd sourcing: Scoring subject responses through Amazon's Mechanical Turk.

Presentations

Talks

Arnold, K. M. (November, 2016). *Memory flexibility: How memory prepares us for the future*. Invited talk at the University of Arkansas, Fayetteville, AR.

Arnold, K. M. (March, 2016). *How memory flexibility enhances learning and prepares us for the future*. Invited talk at Roanoke College, Roanoke, VA.

Arnold, K. M. (March, 2016). *How memory flexibility enhances learning and prepares us for the future*. Invited talk at the State University of New York New Paltz, New Paltz, NY.

- Arnold, K. M.** (January, 2016). *How memory flexibility enhances learning and prepares us for the future*. Invited talk at the University of South Florida, Tampa, FL.
- Arnold, K. M.**, & Marsh, E. J. (May, 2015). *Using cognitive science and technology to improve student learning*. Invited address at the Learning & the Brain Conference on “World-Class Minds: Learning and Teaching in a Global World.” New York, NY.
- Aka, A., **Arnold, K. M.**, & Marsh, E. J. (February, 2015). *Using retrieval to enhance comprehension*. Talk given at the 2015 meeting of the North Carolina Cognition Group, Elon, NC.
- Arnold, K. M.** (October, 2014). *Does testing facilitate future learning?* Invited talk at the University of North Carolina, Chapel Hill, NC.
- Arnold, K. M.** (August, 2012). *Does testing facilitate future learning?* Invited talk given at Duke University, Durham, NC.
- Nelson, S. M., **Arnold, K. M.**, Gilmore, A. W., Najjar, L. M., Finn, B., & McDermott, K. B. (November, 2012). *A neural signature of retrieval practice effects in parietal cortex*. Talk given at the 53rd annual meeting of the Psychonomic Society, Minneapolis, MN.
- Roediger, H. L., & **Arnold, K. M.** (November, 2012). *Learning and Memory in The American Journal of Psychology*. Talk given at the 53rd annual meeting of the Psychonomic Society, Minneapolis, MN.
- Arnold, K. M.** (November, 2011). *Does attempting retrieval facilitate future encoding? Test-Potentiated Learning*. Talk given at the Brain, Behavior, and Cognition Talk Series at Washington University, St. Louis, MO.
- McDermott, K.B. & **Arnold, K. M.** (November, 2010). *Test taking facilitates later learning*. Talk given at the 51st annual meeting of the Psychonomic Society, St. Louis, MO.
- Arnold, K. M.** (February, 2009). *Location, location, location: The importance of context in episodic future thought*. Talk given at the psychology department graduate student brown bag series at Washington University, St. Louis, MO.

Posters

- Arnold, K. M.**, Umanath, S., Thio, K., Reilly, W., McDaniel, M. & Marsh, E. J. (2016). *Understanding the Cognitive Processes in Writing-to-Learn*. Poster presented at the 57th annual meeting of the Psychonomic Society, Boston, MA.
- Arnold, K. M.**, & Marsh, E. J. (2015). *Building a better reader: Enhancing Foundational Knowledge*. Poster presented at the 56th annual meeting of the Psychonomic Society, Chicago, IL.

- Arnold, K. M., & Marsh, E. J.** (2015). *Building a better reader: Activating knowledge through retrieval*. Poster presented at the 27th annual meeting of the Association for Psychological Science, New York, NY.
- Thio, K., **Arnold, K. M.**, McDaniel, M., & Marsh, E. J. (2015). *Not every study strategy is created equal*. Poster presented at the 2015 meeting of the North Carolina Cognition Group, Elon, NC.
- Arnold, K. M.**, & Umanath, S., & Marsh, E. J. (2014). *Is Anchorage the capital of Alaska: Catching errors with recent experience vs. one's own knowledge*. Poster presented at the 55th annual meeting of the Psychonomic Society, Long Beach, CA.
- Arnold, K. M.**, & McDermott, K. B. (2013). *Unsuccessful retrieval enhances subsequent learning*. Poster presented at the 54th annual meeting of the Psychonomic Society, Toronto, ON, Canada.
- Arnold, K. M.**, & McDermott, K. B. (2012). *Why do prior tests enhance subsequent learning?* Poster presented at the 53rd annual meeting of the Psychonomic Society, Minneapolis, MN.
- Arnold, K. M.**, & McDermott, K. B. (2012). *Initial retrieval attempts facilitate subsequent learning*. Poster presented at the 24th annual meeting of the Association for Psychological Science, Chicago, IL.
- Nelson, S. M., **Arnold, K. M.**, Gilmore, A. W., Najjar, L. M., Finn, B., & McDermott, K. B. (2012). *A neural signature of test-potentiated learning in parietal cortex*. Poster presented at the 20th annual meeting of the Cognitive Neuroscience Society, Chicago, IL.
- Arnold, K. M.**, & McDermott, K. B. (2011). *Attempting free recall potentiates subsequent encoding*. Poster presented at the 52nd annual meeting of the Psychonomic Society, Seattle, WA.
- Arnold, K.M.**, Szpunar, K.K., & McDermott, K.B. (2009). *Temporal distance differentially affects vividness of episodic future thought and episodic memory*. Poster presented at the 50th annual meeting of the Psychonomic Society, Boston, MA.
- Arnold, K.M.**, Szpunar, K.K., & McDermott, K.B. (2009). *Temporal distance differentially affects vividness of episodic future thought and episodic memory*. Poster presented at the 21st annual meeting of the Association for Psychological Science, San Francisco, CA.

Einstein, G. O., Scullin, M. K., Bishop, R. B., **Arnold, K. M.**, & McDaniel, M. A. (2006). *Prospective memory: Evidence for spontaneous retrieval processes in older adults*. Poster presented at the 47th Annual meeting of the Psychonomic Society, Houston, TX.

Arnold, K. M., Bishop, R. B., Scullin, M. K., & Einstein, G. O. (2006). *Prospective memory: Evidence for spontaneous retrieval processes in older adults*. Poster presented at the 20th Annual National Conference on Undergraduate Research, Asheville, NC.

Einstein, G. O., **Arnold, K. M.**, Bishop, R. B., & Scullin, M. K. (2006). *Prospective Memory: Evidence for spontaneous retrieval processes in older adults*. Presented at the 52nd Annual Southeastern Psychological Association conference, Atlanta, GA.

Scullin, M. K., Bishop, R. B., **Arnold, K. M.**, & Einstein, G. O. (2006) *Prospective memory: Context effects for prospective memory*. Poster presented at the Committee on Equality for Professional Opportunity during the 52nd Annual Southeastern Psychological Association conference, Atlanta, GA.

Teaching Experience

Courses Taught

Cognitive Psychology, Duke University, to be taught Summer 2017
Cognition in the Classroom, Duke University, to be taught Spring 2017
Human Learning and Memory, Washington University in St. Louis, Summer 2010

Teaching Assistantships

Human Learning and Memory, Washington University, Fall 2009
Experimental Psychology, Washington University, Fall 2008
Experimental and Statistical Methods, Furman University, 2007
Experimental and Statistical Methods, Furman University, 2006

Guest Lectures

Memory 101, Intro to Psychology, Duke University, Fall 2016
Applications of Attention Research, Cognitive Psychology, Roanoke College, Spring 2016
The Power of Testing, Experimental Psychology, Meredith College, Spring 2015
Attention Failure, Cognitive Psychology, Duke University, Spring 2015
Amnesia & Implicit Memory, Myths & Mysteries of Memory, Duke University, Spring 2014
Memory, Introduction to Psychology, Washington University, Summer 2012
Memory, Introduction to Psychology, Washington University, Summer 2011
Attention and Memory, Intro to Psychology, Washington University, Summer 2011
Prospective Memory, Human Learning & Memory, Washington University, Fall 2009

Observational Research, Experimental Psychology, Washington University, Fall 2008

Mentoring Experience

Independent research project, Duke University, Fall 2016

Title: *Effects of writing on learning in adolescents*

Mentee: Ashton Huey

Practicum, Duke University, Fall 2016

Title: *Curiosity and learning: Are people more curious when they know they don't know?*

Mentee: Camila Vargas

Graduation with distinction project, Duke University, 2015-2016.

Title: *Using retrieval to enhance reading comprehension*

Mentee: Ada Aka

Independent research project, Duke University, 2014-2015

Title: *Effect of retrieval on reading*

Mentee: Ada Aka

Independent research project, Duke University, 2014-2015

Title: *Reading, writing, and learning*

Mentee: Ethan Levine

Honors thesis, Washington University, 2011-2012

Title: *Evaluating test-potentiated learning persistence under different delays*

Mentee: Allison Cantor

Independent research project, Washington University, Fall 2011

Title: *Why does retrieval benefit subsequent encoding? Evaluating the test-potentiated learning framework*

Mentee: Andrew Fishell

Mind, Brain, and Behavior thesis, Washington University, 2010-2011

Title: *Does memory for prior tests affect test-potentiated study time changes?*

Mentee: Andrew Fishell

Mind, Brain, and Behavior thesis, Washington University, 2009-2010

Title: *Test-potentiated learning*

Mentee: Allison Cantor

Independent research project, Washington University, Spring 2010

Title: *The effect of temporal orientation on eye movement*

Mentee: Rachel Goldfeder

Independent research project, Washington University, Spring 2009

Title: *The effect of temporal distance on contextual familiarity*

Mentee: Kaytlin Kopen

Professional Activities

Professional Memberships

Association for Psychological Science

Psychonomic Society

Women in Cognitive Science

Editing Experience

Translational Issues in Psychological Science, associate editor for special issue:
“Psychology in the Classroom”, 2014-2015

Ad-hoc Reviewing

Computers & Education

Developmental Science

Journal of Applied Research in Memory and Cognition

Journal of Experimental Psychology: Applied

Journal of Experimental Psychology: General

Journal of Experimental Psychology: Learning, Memory, and Cognition

Journal of Memory and Language

Learning and Individual Differences

Memory

Memory & Cognition

Departmental Service

Student and Postdoc Committee for the Improvement of the Psychology & Neuroscience
Department Website, Duke University, 2015 – present

Peer Mentor for first-year psychology graduate student, Washington University in St.
Louis, Fall 2009

Campus Student Representative for the Association for Psychological Science,
Washington University in St. Louis, 2008 – 2010

Community Outreach

Psychological research consultant for Chapin High School’s Research Method class,
2014 – 2016

Invited talk on “Demystifying Memory” during monthly meeting of the Central South
Carolina Mensa association, Spring 2014

Invited guest lecture on “What is Psychology?” to Lion’s Pride, University City High
School’s summer program, Summer 2009