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**Education**

- 2012      Ph.D. in Cognitive Psychology (expected May, 2012)  
*University of Illinois at Urbana-Champaign*  
Advisor: Aaron S. Benjamin  
Thesis: "Retrieval cue variability: When and why are two meanings better than one?"
- 2010      M.A. in Cognitive Psychology  
*University of Illinois at Urbana-Champaign*  
Thesis: "Adaptive and qualitative changes in encoding strategy with experience"
- 2003      B.S. in Cognitive Science, summa cum laude, Minor in English  
*University of California, Los Angeles*

**Honors and Awards**

- 2011      Graduate Teacher Certificate  
University of Illinois at Urbana-Champaign
- 2007-2012      National Science Foundation Graduate Research Fellow
- 2007-2011      Mary Jane Neer Scholarship
- 2007, 2010      List of Teachers Ranked as Excellent by Their Students  
University of Illinois at Urbana-Champaign
- 2000      UCLA Regent Scholar

**Research Interests**

Overcoming limitations of human learning and memory by improving metacognition (e.g., strategies) and/or offloading aspects of cognition onto the environment.

**Teaching Interests**

Cognitive psychology, memory, research methods and statistics, introductory psychology, human factors.

### **Research Experience**

- 2006-2012 Graduate research with Aaron S. Benjamin  
Memory, metamemory, encoding and retrieval strategies  
*University of Illinois at Urbana-Champaign*
- 2006-2012 Graduate research with William F. Brewer  
Autobiographical memory  
*University of Illinois at Urbana-Champaign*
- 2004-2006 Research Associate with Marcia C. Linn  
Technology Enhanced Learning in Science: A NSF Center for Learning and Teaching  
*UC Berkeley Graduate School of Education*
- 2003-2006 Research Associate with Robert A. Bjork  
Introducing Desirable Difficulties for Educational Applications in Science; Funded by the Institute of Education Sciences' Cognition and Student Learning Program  
*UCLA Department of Psychology*
- 2003-2005 Research Assistant with Elisheva F. Gross  
*UCLA Children's Digital Media Center: A NSF Social, Behavioral, and Economic Center*
- 2002 Research Assistant with W. Lewis Johnson  
*University of Southern California Information Sciences Institute*
- 2001-2003 Research Assistant with Christine L. Borgman  
NSF Research Experience for Undergraduates Participant: Alexandria Digital Earth ProtoType Project  
*UCLA Graduate School of Education and Information Studies*
- 2001 Research Assistant with William A. Sandoval  
*UCLA Graduate School of Education and Information Studies*
- 2000-2001 Research Assistant with Patricia W. Cheng  
*UCLA Department of Psychology; Patricia W. Cheng*

### **Publications**

- Finley, J. R., & Benjamin, A. S. (in press). Adaptive changes in encoding strategy with experience: Evidence from the test expectancy paradigm. *Journal of Experimental Psychology: Learning, Memory, and Cognition*.
- Finley, J. R., Brewer, W. F., & Benjamin, A. S. (2011). The effects of end-of-day picture review and a sensor-based picture capture procedure on autobiographical memory using SenseCam. *Memory, 19*(7), 796-807.
- Finley, J. R., Benjamin, A. S., Hays, M. J., Bjork, R. A., & Kornell, N. (2011). Benefits of Accumulating Versus Diminishing Cues in Recall. *Journal of Memory and Language, 64*, 289-298.
- Finley, J. R., Tullis, J. G., & Benjamin, A. S. (2010). Metacognitive control of learning and remembering. In M. S. Khine & I. Saleh (Eds.), *New science of learning: cognition, computers and collaboration in education*. Springer.

- Borgman, C. L., Smart, L. J., Millwood, K. A., Finley, J. R., Champeny, L., Gilliland, A. J., Leazer, G. H. (2005). Comparing faculty information seeking in teaching and research: implications for the design of digital libraries. *Journal of the American Society for Information Science and Technology*, 56(6), 636-657.
- Richland, L.E., Bjork, R. A., Finley, J.R., Linn, M.C. (2005). Linking Cognitive Science to Education: Generation and Interleaving Effects. In B.G. Bara, L. Barsalou, M. Bucciarelli (Eds.), *Proceedings of the Twenty-Seventh Annual Conference of the Cognitive Science Society* (p. 1850). Mahwah, NJ: Lawrence Erlbaum.
- Borgman, C. L., Leazer, G. H., Gilliland-Swetland, A., Millwood, K., Champeny, L., Finley, J., Smart, L. J. (2004). How geography professors select materials for classroom lectures: implications for the design of digital libraries. *JCDL '04: Proceedings of the 4th ACM/IEEE-CS joint conference on Digital libraries* (pp. 179-185). Tucson, AZ: Association for Computing Machinery.
- Champeny, L., Borgman, C. L., Leazer, G. H., Gilliland-Swetland, A. J., Millwood, K. A., D'Avolio, L., Finley, J. R., Smart, L. J., Mautone, P. D., Mayer, R. E., and Johnson, R. A. (2004). Developing a digital learning environment: an evaluation of design and implementation processes. *JCDL '04: Proceedings of the 4th ACM/IEEE-CS joint conference on Digital libraries* (pp. 37-46). Tucson, AZ: Association for Computing Machinery.
- Richland, L.E., Finley, J. R., Bjork, R. A. (2004). Differentiating the Contextual Interference Effect from the Spacing Effect. In K. Forbus, D. Gentner, & T. Regier (Eds.), *Proceedings of the Twenty-Sixth Annual Conference of the Cognitive Science Society* (p. 1624). Mahwah, NJ: Lawrence Erlbaum.

### **Manuscripts Under Review or in Preparation**

- Liu, X., Finley, J. R., & Benjamin, A. S. (under review). Learning to avoid part-list cues.
- Tullis, J. G., Finley, J. R., & Benjamin, A. S. (under review). Do metacognitive judgments reflect the effects of testing?
- Finley, J. R., Benjamin, A. S., & McCarley, J. S. (in preparation). Dual-task metacognition.
- Finley, J. R., & Brewer, W. F. (in preparation). Accuracy and completeness of autobiographical memory.
- Finley, J. R., & Benjamin, A., S. (in preparation). Metacognitive control of transfer-appropriate processing.
- Finley, J. R., & Benjamin, A., S. (in preparation). Retrieval Strategy and Part-List Cuing.
- Finley, J. R., & Brewer, W. F. (in preparation). An analysis of session titles from 50 years of annual meetings of the Psychonomic Society: Characterizing the paradigm shift from behaviorism to cognitive psychology.

Finley, J. R., Brewer, W. F., & Benjamin, A. S. (in preparation). Reflections of memory in the environment: Improving the use of physical sensor data to predict memorability of SenseCam pictures from everyday life.

Richland, L. E., Bjork, R. A., & Finley, J. R. (in preparation). Incorporating Desirable Difficulties in Science Learning: Effects of Generation and Interleaving.

### **Presentations**

Finley, J. R., & Brewer, W. F. (2011, August). *The Accuracy and Completeness of Recollective Memory*. Presentation given at the 5<sup>th</sup> International Conference on Memory, York, UK.

Finley, J. R., & Brewer, W. F. (2010, September). *Accuracy and Completeness of Autobiographical Memory*. Poster presented at SenseCam 2010 Symposium, Dublin, Ireland.

Finley, J. R., & Fraundorf, S. H. (2010, April). *Signal Detection Theory & Multi-Level Modeling: When "Accuracy" Isn't Always Accurate*. Presentation given to Multilevel Modeling Reading Group, Department of Psychology, University of Illinois at Urbana-Champaign.

Finley, J. R., Brewer, W. F., & Benjamin, A. S. (2009, October). *Reflections of memory in the environment*. Presentation given at SenseCam 2009 Symposium, Chicago, IL.

Finley, J. R. (2009, January). *SenseCam: a new type of tool to study and augment human cognition*. Visual Cognition and Human Performance Talk Series, Department of Psychology, University of Illinois at Urbana-Champaign.

Finley, J. R., Brewer, W. F., & Benjamin, A. S. (2008, November). *SenseCam and Autobiographical Memory*. Poster presented at the annual meeting of the Psychonomic Society, Chicago, IL.

Finley, J. R., Brewer, W. F., & Benjamin, A. S. (2008, June). *Memory effects of daily review of SenseCam images for healthy young adults*. Presentation given at 2nd SenseCam Collaborator's Meeting, Microsoft Research Cambridge Lab, UK.

Finley, J. R., & Benjamin, A. S. (2007, November). *Adaptive Changes in Encoding Strategy With Experience: Evidence From the Test Expectancy Paradigm*. Poster presented at the annual meeting of the Psychonomic Society, Long Beach, CA.

Finley, J. R. (2007, September). *Adaptive changes in encoding strategy with experience*. Cognitive Talk Series, Department of Psychology, University of Illinois at Urbana-Champaign.

- Linn, M. C., Bjork, R. A., Richland, L. E., Cheng, H., Kornell, N., Hays, M. J., Finley, J. R., & Fink, D. S. (2006, June). Desirable difficulties in science learning in a Web-Based Inquiry Science Environment (WISE). Poster presented at the Institute for Education Sciences 2006 Research Conference, Washington, D. C.
- Linn, M. C., Cheng, B. H., Richland, L. E., Bjork, R. A., & Finley, J. R. (2005, January). Can desirable difficulties improve science learning from text? Paper to be presented at the Sixteenth Annual Winter Conference on Discourse, Text, and Cognition. Jackson Hole, Wyoming.
- Tate, E. D., & Finley, J. R. (2007, April). *Does the Hanging With Friends, Velocity Style! Module Support Students' Ability to Calculate and Graph Velocity?* Poster presented at the annual meeting of the American Educational Research Association, Chicago, IL.
- Tate, E. D., & Finley, J. R. (2006, April). *How do multiple visualizations improve students' understanding of velocity?* Poster presented at the annual meeting of the American Educational Research Association, San Francisco, CA.
- Finley, J. R. (2005, May). *Desirable difficulties: learning, teaching, and collaboratively bridging.* Paper presented at the Third UCLA Lake Arrowhead Conference on Human Complex Systems, Lake Arrowhead, CA.
- Linn, M. C., Bjork, R. A., Cheng, B. H., Richland, L. E., & Finley, J. R. (2005, April). *Improving science learning: generation and reflection.* In E. Albro, Chair, Symposium on Bringing Cognitive Science into the Classroom. Meetings of the American Educational Research Association, Montreal, Canada.
- Finley, J. R., Richland, L. E., Bjork, R. A. (2004, April). *Introducing desirable difficulties into science learning.* Poster presented at the annual meeting of the American Educational Research Association, San Diego, CA.
- Borgman, C. L., Smart, L. J., Millwood, K. A., Finley, J. R., Champeny, L., Gilliland-Swetland, A., Leazer, G. H. (2004, April). *Getting ready for class: the information seeking behavior of geography professors in support of teaching.* Paper presented at the annual meeting of the American Educational Research Association, San Diego, CA.

### **Other Publications and Presentations**

- Finley, J. R. (2008, October). Hot Spots Near You: Mildred E. Mathias Botanical Garden, Los Angeles, CA. *Birder's World*.
- Finley, J. R. (2006). Hail to the Birds of Westwood. *Western Tanager (Los Angeles Audubon Society)*, 72(7), 1-3.
- Methot, L. M., & Finley, J. R. (2003). The UCLA AstroBiology Society: the first student-run astrobiology organization. *Astrobiology*, 3(2), 249-250.

- Methot, L. M., & Finley, J. R. (2003). Origin and Evolution of the UCLA AstroBiology Society. In Norris, R., & Stootman, F. (Eds.), *Bioastronomy 2002: Life Among the Stars, Proceedings of International Astronomical Union Symposium #213* (p. 559). San Francisco: Astronomical Society of the Pacific.
- Finley, J. R., & Methot, L. M. (2002, May). 2002-2003 *Education and Public Outreach Initiatives for the Center for Astrobiology: The UCLA AstroBiology Society*. Presentation at the UCLA Center for Astrobiology Retreat, Malibu, CA.
- Finley, J. R., & Methot, L. M. (2002, April). *Origin and evolution of the UCLA AstroBiology Society*. Poster presented at the Astrobiology Science Conference 2002, NASA Ames Research Center, Moffett Field, CA.
- Finley, J. R., & Methot, L. M. (2000, March). *The UCLA AstroBiology Society: Forming a Multidisciplinary Organization*. Presentation at the UCLA Center for Astrobiology Retreat, Westwood, CA.

### **Teaching and Mentoring Experience**

- 2010            Instructor: Introductory Psychology  
*University of Illinois at Urbana-Champaign*
- 2008            Instructor: Introduction to Statistics  
*University of Illinois at Urbana-Champaign*
- 2007            Instructor: Cognitive Psychology Laboratory (Research Methods)  
*University of Illinois at Urbana-Champaign*
- 2003-2006    Mentor and Supervisor to 12 undergraduate research assistants:  
Introducing Desirable Difficulties for Educational Applications in  
Science  
*UCLA Department of Psychology, Funded by the Institute of Education  
Sciences' Cognition and Student Learning Program*

### **Professional Memberships**

American Educational Research Association  
Association for Psychological Science  
Cognitive Science Society  
International Association for Metacognition  
Society for Applied Research in Memory and Cognition

### **Professional Experience**

- 2009-2011    Ad Hoc Reviewer: *Memory*
- 2011            Ad Hoc Reviewer: *Journal of Experimental Psychology: Learning,  
Memory, and Cognition*

### **Technical Skills**

Computer Programming Languages:

C++, HTML, PHP, LISP, MatLab, NetLogo, PASCAL, REAL Basic, Visual BASIC.

Software:

R, SPSS, SAS, PsyScope, SuperLab, StatView, NVivo/NUDIST, Photoshop, Illustrator, Excel, website design and maintenance.

### **References**

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