

Curriculum Vita
IVAN K. ASH

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EDUCATION:

- 2005 Ph.D. University of Illinois at Chicago, Chicago, IL
Thesis: "The Effects of Pre and Post-outcome Information and Outcome Congruency on Hindsight Bias."
Major: Cognitive Psychology
Minor: Methods, Measurement, and Statistics
- 2003 M.A. University of Illinois at Chicago, Chicago, IL
Thesis: "Hindsight Bias in Problem Solving"
Major: Psychology
- 1999 B.S. Central Michigan University, Mt. Pleasant, MI
Major: Psychology (*Cum Laude*)

RESEARCH INTRESTS:

Cognitive Psychology, Mental Representation, Problem Solving, Creativity & Insight, Judgment Formation, Decision Making, Comprehension, Learning & Memory, Individual Differences in Cognitive Abilities & Expertise, Hindsight Bias, and Computation Modeling of Cognitive Processes.

EXPERIENCE:

Fall 2005 to present: Assistant Professor of Psychology: Old Dominion University, Norfolk, VA.

Previous Research Positions:

Fall 2002 & Fall 2003: Graduate Researcher (Experimental Design, Eyetracking, & Data Analysis Specialist): National Science Foundation ROLE program funded project: "Understanding in Science" Dr. Jennifer Wiley (PI), Drs. Susan Goldman & Art Graesser (Co-PIs): University of Illinois at Chicago.

Summer 2001: Graduate Researcher (Experimental Design, Eyetracking, & Data Analysis Specialist): National Science Foundation funded project: "Assessment of Effectiveness of an Electronic Book to Deliver Robotics Lab Experience Over the Internet." Dr. Hakan Gurocak (PI), Washington State University. Supervisor Dr. Jennifer Wiley: University of Illinois at Chicago.

Fall 2000 - Fall 2001: Graduate Researcher (Data Collection & Analysis Assistant): Office of Naval Research funded project: "Principled Design of Learning Environments: Promoting Understanding from Electronic Text" Dr. Jennifer Wiley (PI): University of Illinois at Chicago.

PEER REVIEWED JOURNAL ARTICLES AND PROCEEDINGS PAPERS:

- Baldwin, C. L. & Ash, I. K. (in press). Impact of auditory acuity on listening span in young and old adults. *Psychology and Aging*.
- Nokes, T. J. & Ash, I. K. (2010). Investigating the role of instructional focus in incidental pattern learning. *Journal of General Psychology*, 137(1), 84-113.
- Ash, I. K. (2009). Surprise, memory, and retrospective judgment making: Testing cognitive reconstruction theories of the hindsight bias effect. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 35(4), 916-933.
- Ash, I. K., Cushen, P. J., and Wiley, J. (2009). Obstacles in investigating the role of restructuring in insightful problem solving. *The Journal of Problem Solving*, 2(2), Article 3. Available at: <http://docs.lib.purdue.edu/jps/vol2/iss2/3>
- Wiley, J., Goldman, S., Graesser, A., Sanchez, C., Ash, I. K. & Hemmerich, J. (2009) Source evaluation, comprehension, and learning in internet science inquiry tasks. *American Educational Research Journal*, 46, 1060-1106.
- Ash, I. K. & Wiley, J. (2008). Hindsight bias in insight and mathematical problem-solving: Evidence of different reconstruction mechanisms for metacognitive vs. situational judgments. *Memory & Cognition*, 36(4), 822-837.
- Ash, I. K. (2006). Can exposure to post-outcome information “debias” the hindsight bias? *Proceedings of the 28th Annual Conference of the Cognitive Science Society*. Mahwah, NJ: Lawrence Erlbaum Associates.
- Ash, I. K. & Wiley, J. (2006). The nature of restructuring in insight: An individual differences approach. *Psychonomic Bulletin & Review*, 13(1), 66-73.
- Ash, I. K. & Nokes, T. J. (2003). Instructional focus does not affect implicit pattern learning. *Proceedings of the 25th Annual Conference of the Cognitive Science Society*. Mahwah, NJ: Lawrence Erlbaum Associates.
- Ash, I. K. & Wiley J. (2002). AH-HA! I knew it all along: Differences in hindsight bias between insight and algebra problems. *Proceedings of the 24th Annual Conference of the Cognitive Science Society*: Mahwah, NJ: Lawrence Erlbaum Associates.
- Gurocak, H., Ash, I. K. & Wiley, J. (2002). Assessment of effectiveness of an electronic book to deliver robotics lab experience over the Internet. *Proceedings of DETC'02: ASME 2002 Design Engineering Technical Conferences and Computers and Information in Engineering Conference*.

MANUSCRIPTS AND RESEARCH IN PROGRESS:

- May, R.¹, **Ash, I. K.**, & Wiley, J. Hindsight bias on situational, metacognitive and numeric estimation judgments: A mental representation approach. Manuscript under review at *Social Cognition*.
- Ash, I. K.** & Comer, C. S.¹ The interaction of strategy and working memory capacity in predicting syllogistic reasoning performance. Manuscript in preparation for *Thinking and Reasoning*.
- Ash, I. K.** & Miles, S. A.² Working memory and priming effects: An individual differences investigation of attentional filter models. Manuscript in preparation for *Attention, Perception and Psychophysics*.
- Smith-Rodden, M.¹ & **Ash, I. K.** An examination of the hindsight bias effect following judgments of trust. Manuscript in preparation for *Journal of Experimental Social Psychology*.
- Tidikyte, V.¹, **Ash, I. K.**, & Wiley, J. Effects of group gender composition on cognitive insight problem solving performance. Old Dominion University (data analysis).
- Edwards, A.¹ & **Ash, I. K.** Investigating delay in health related decision making. Old Dominion University (data analysis).
- May, R.¹ & **Ash, I. K.** The effects of self-relevance and task importance on the hindsight bias effect. Old Dominion University (data collection).

EDITED BOOK CHAPTERS:

- Wiley, J., **Ash, I. K.**, Sanchez, C. A. & Jaeger, A. (in press). Clarifying readers' goals for learning from expository science texts. To appear in M. McCrudden, J. Magliano, and G. Schraw, (Eds.) *Relevance instructions and goal-focusing in text learning*. Information Age Publishing.
- Wiley, J. & **Ash, I. K.** (2005). Multimedia Learning of History. Chapter in R. E. Mayer (Ed.), *Cambridge Handbook of Multimedia Learning*. New York: Cambridge University Press.

PUBLISHED ABSTRACTS:

- Ash, I. K.** & Miles, S. A.² (2009) The role of working memory capacity in attentional filtering. *Abstracts of the 50th Annual Meeting of the Psychonomic Society*, Volume 14.
- Ash, I. K.** & Comer, C. S.¹ (2008). The interaction of working memory and reasoning style in predicting syllogistic reasoning performance. *Abstracts of the 49th Annual Meeting of the Psychonomic Society*, Volume 13.
- Ash, I. K.** & Comer, C. S.¹ (2007). The role of expectation and memory in the hindsight bias effect: A test of cognitive reconstruction models. *Proceedings of the 29th Annual Conference of the Cognitive Science Society*. Mahwah, NJ: Lawrence Erlbaum Associates.

PUBLISHED ABSTRACTS (continued):

- Sanchez, C. A., **Ash, I. K.** & Wiley, J. (2004). Making inferences from WebPages. *Abstracts of the 45th Annual Meeting of the Psychonomic Society*, Volume 9.
- Ash, I. K.** & Wiley, J. (2004). Ah-Ha! I knew it all along. Hindsight bias evidence of restructuring in problem solving. *Program of the 76th Annual Meeting of the Midwestern Psychological Association*.
- Ash, I. K.** (2004). 2002-2003 Erlbaum Winners' Abstracts: Hindsight bias measures of restructuring in problem solving. *Eye on Psi Chi*, Volume 8 (2).
- Nokes, T. J. & **Ash, I. K.** (2003). Does attention matter for implicit learning? *Program of the 75th Annual Meeting of the Midwestern Psychological Association*.
- Nokes, T. J. & **Ash, I. K.** (2002). An examination of the role of attentional focus in implicit learning. *Program of the 74th Annual Meeting of the Midwestern Psychological Association*.
- Kershaw, T. C., **Ash, I. K.**, Jolly, C. & Wiley, J. (2002). The role of working memory in insight problem solving. *Abstracts of the 43rd annual meeting of the Psychonomic Society*, Volume 7.
- Wiley, J., **Ash, I. K.**, Brodhead, A. & Sanchez, C. (2001). The impact of images on learning from WebPages on science and history. *Program of the 73th Annual Meeting of the Midwestern Psychological Association*.
- Ash, I. K.** & Wiley, J (2001). Hindsight bias in problem solving. *Abstracts of the 42nd Annual Meeting of the Psychonomic Society*, Volume 6.

***RESEARCH PAPERS & POSTERS PRESENTED AT PROFESSIONAL MEETINGS:**

- Edwards, A. L.¹ & **Ash, I. K.** (2010, May). Human preference for delay: Health and non-health decision domains. Poster presented as the 22nd Annual Convention of the Association for Psychological Science: Boston, MA.
- May, R.¹ & **Ash, I. K.** (2010, May). Influence of gender, defensive processing, and stereotype threat on creative problem solving. Poster presented as the 22nd Annual Convention of the Association for Psychological Science: Boston, MA.
- Tidikyte-Day, V.¹ & **Ash, I. K.** (2010, May). Effects of group gender composition on cognitive insight problem solving performance. Poster presented as the 22nd Annual Convention of the Association for Psychological Science: Boston, MA.
- Edwards, A. L.¹ & **Ash, I. K.** (2010, April). We all delay: An examination of delay preference across certainty and decision domain. Paper presented at the Annual Spring Meeting of the Virginia Psychological Association: Norfolk, VA.

RESEARCH PAPERS PRESENTED AT PROFESSIONAL MEETINGS (continued):

- May, R.¹ & **Ash, I. K.** (2010, May). Stereotype threat in creative problem solving. Paper presented at the Annual Spring Meeting of the Virginia Psychological Association: Norfolk, VA.
- Smith-Rodden, M.¹ & **Ash, I. K.** (2010, April). Memory distortions linked with hindsight bias during judgments of trust. Poster presented at the Annual Spring Meeting of the Virginia Psychological Association: Williamsburg, VA.
- Tidikyte-Day, V.¹ & **Ash, I. K.** (2010, April). Is one head better than two? Effects of working in groups on cognitive insight problem-solving performance. Paper presented at the Annual Spring Meeting of the Virginia Psychological Association: Norfolk, VA.
- Smith-Rodden, M.¹ & **Ash, I. K.** (2009, May). An examination of the hindsight bias effect during judgments of trust. Paper presented at the Annual Meeting of the Virginia Academy of Science: Richmond, VA.
- Smith-Rodden, M.¹ & **Ash, I. K.**, (2009, May). Knew it all along: Trust judgments and the hindsight bias effect. Poster presented at the 21st Annual Convention of the Association for Psychological Science: San Francisco, CA.
- Peoples, S. A.² & **Ash, I. K.** (2009, April). Can post-outcome information from expert opinions "debias" the Hindsight Bias? Paper presented at the Carolinas Psychology Conference: Raleigh, NC.
- Smith-Rodden, M.¹ & **Ash, I. K.** (2009, April). An examination of the hindsight bias effect following judgments of trust. Paper presented at the Annual Spring Meeting of the Virginia Psychological Association: Williamsburg, VA.
- Smith-Rodden, M.¹ & **Ash, I. K.** (2007, April). An implicit measures study of AIDS-related stigma and terror management theory. Paper presented at the Annual Meeting of the Virginia Psychological Association: Richmond, VA.
- Comer, C. S.¹ & **Ash, I. K.** (2007, April). Effects of pre-outcome information and outcome congruency on hindsight bias and memory. Paper presented at the Annual Meeting of the Virginia Psychological Association: Richmond, VA.
- Lin, L.Y.¹ & **Ash, I. K.** (2007, April). Time pressure effects on a base-rate task using dissimilar cues and outcomes. Paper presented at the Annual Meeting of the Virginia Psychological Association: Richmond, VA.
- Ash, I. K.** (2006, May). Surprising outcomes and memory for prior predictions. Poster presented at the Annual Meeting of the Association for Psychological Science (APS): New York, NY.

RESEARCH PAPERS PRESENTED AT PROFESSIONAL MEETINGS (continued):

Ash, I. K. (2005, November). Expectation, surprise, and the hindsight bias: The effects of information/outcome congruency on retrospective judgments. Poster presented at the 26th Annual Meeting of the Society for Judgment and Decision Making: Toronto, Canada.

Ash, I. K. & Backs, R. W. (2000, August). Cardiac measures of attentional resource demands during continuous manual tracking. Paper presented at the Third International Conference on Psychophysiology in Ergonomics, San Diego, CA.

Jaffa, M., **Ash, I. K.** & Wheeler, J. (1999, May). Grimacing facilitates the exertion of force. Poster presented at the Annual Conference of the American Psychological Society, Denver, CO.

GRANTS AWARDED:

Haines, R. & **Ash, I. K.** (Co-PIs). (Summer, 2007). "Cognitive Impediments to Learning in a Dynamically Complex Environment." Summer Experience Enhancing Collaborative Research (SEECR) grant from Old Dominion University's Office of Research: \$17,000.

Ash, I. K. (2004- 2005). University Fellowship for "Effects of Pre & Post-outcome Information on the Hindsight Bias Effect." Competitive research fellowship awarded by the Graduate College at University of Illinois at Chicago. \$15,000.

GRANTS UNDER REVIEW OR IN PREPARATION:

Haines, R. & **Ash, I. K.** (Co-PIs). Cognitive Biases and Supply Chain Inefficiencies: The Role of Hindsight Bias in the Bullwhip Effect." National Science Foundation's Division of Social and Economic Sciences. Approximate budget \$350,000 (in preparation for August 18, 2010 deadline).

Ash, I. K. (PI) & Padilla, M. A. (Co-PI). "An Experimental Investigation of the Effectiveness of Using Spreadsheet Based Exercises in an Introductory Statistics Course." National Science Foundation, Transforming Undergraduate Education in Science, Technology, Engineering and Mathematics Program. \$199,149 (Under review: Submitted May 27, 2010)

HONORS, AWARDS AND PRIZES:

- Shining Star Award (2008-9). Award presented to recognize faculty for helping students succeed academically, professionally, or personally both inside and outside the classroom setting. Old Dominion University Division of Student Affairs.
- Lee Tonon Award (2003-4). Award presented to recognize outstanding service to the Psychology Department, University of Illinois at Chicago. \$250.
- Michael J. Piorowski Award (2003-4). Award given to a graduate student in good standing in biopsychology or cognitive psychology who displays creativity, strength of character, and a love of people, University of Illinois at Chicago. \$500.
- Psi Chi/Erlbaum Award in Cognitive Science (2003-4). National competition for best overall empirical study in Cognitive Science. First place for “Hindsight Bias Measures of Restructuring in Problem Solving.” \$500..

PROFESSIONAL AFFILIATIONS:

- Association of Psychological Science: Member
- Cognitive Science Society: Member
- Psychonomic Society: Associate Member
- Society for Judgment and Decision Making: Member
- Virginia Psychological Association: Member
- Psi Chi: Alumni Member

TEACHING EXPERIENCE:

- Statistics in the Behavioral Sciences (Undergraduate), University of Illinois at Chicago.
- Quantitative Methods (Undergraduate), Old Dominion University: 3 semesters.
- Experimental Psychology (Undergraduate), Old Dominion University: 5 semesters.
- Human Cognition (Graduate), Old Dominion University: 4 semesters.
- Supervised & Honors Research Seminar (Undergraduate), Old Dominion University.
- Analysis of Variance & Experimental Design (Graduate), Old Dominion University: 3 semesters.
- History of Psychology (Undergraduate), Old Dominion University. 3 semesters.

RESEARCH MENTORING:

Undergraduate Supervised Research 13 students, Undergraduate Honors Thesis 2 students, Masters in Psychology 5, Ph.D. Psychology, 6.

UNIVERSITY SERVICE:

- Quantitative Methods Curriculum Committee (2005-present). Psychology Department, Old Dominion University.
- Undergraduate Honor's Committee (2007-present). Psychology Department, Old Dominion University.
- Webpage Development Committee (2005-present). Psychology Department, Old Dominion University.
- Undergraduate Program Committee (2005-8). Psychology Department, Old Dominion University.
- Industrial/Organizational Faculty Hiring Committee (2007-8). Psychology Department, Old Dominion University.
- Undergraduate Honor's Committee Interim Chair (Spring 2007). Psychology Department, Old Dominion University.
- Human Factors/Virginia Modeling, Analysis & Simulation Center Faculty Hiring Committee (2006-7), Old Dominion University.
- Discussion Panel Member (2006, April). APS, Psi Chi, & Psychology Department Film Fest. Old Dominion University.
- Faculty Poster Judge at Research Expo (2006, April). Old Dominion University
- Committee on Graduate Studies (2003-4). Psychology Department, University of Illinois at Chicago.
- Graduate Student Council Representative (2003-4). University of Illinois at Chicago.
- Graduate Applicant Visiting Day Organizer (2001, 2004). Psychology Department University of Illinois at Chicago.
- Fundraising Chair (Fall 1998-Fall 1999). Psi Chi National Honor Society, Central Michigan University Chapter.

PROFESSIONAL SERVICE:

- Ad Hoc Reviewer for
 - *Learning and Individual Differences*
 - *Journal of Experimental Psychology: Learning, Memory & Cognition*
 - *Journal of Educational Psychology*
 - *Memory & Cognition*
 - *Psychonomic Bulletin and Review*