

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.

PUBLISHED BOOKS, MONOGRAPHS, BOOK REVIEWS, AND PAPERS:

- Nokes, T. J. & **Ash, I. K.** (in press). Investigating the role of instructional focus in incidental pattern learning. *Journal of General Psychology*.
- 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
- * 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.
- 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*.

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.
- 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, May). 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.
- 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 PRESENTED AT PROFESSIONAL MEETINGS:

- Ash, I. K.** & Miles, S. A.² (2009, November) The role of working memory capacity in attentional filtering. Poster presented at the 50th Annual Meeting of the Psychonomic Society: Boston, MA.
- 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.

RESEARCH PAPERS PRESENTED AT PROFESSIONAL MEETINGS (continued):

- 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.
- Ash, I. K.** & Comer, C. S.¹ (2008, November). The interaction of working memory and reasoning style in predicting syllogistic reasoning performance. Paper presented at 49th Annual Meeting of the Psychonomic Society: Chicago, IL.
- Ash, I. K.** & Comer, C. S.¹ (2007, August). The role of expectation and memory in the hindsight bias effect: A test of cognitive reconstruction models. Poster presented at the 29th Annual Conference of the Cognitive Science Society: Nashville, TN.
- 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, August). Can exposure to post-outcome information "debias" the hindsight bias? Poster presented at the 28th Annual Meeting of the Cognitive Science Society: Vancouver, BC.
- 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.
- 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.

RESEARCH PAPERS PRESENTED AT PROFESSIONAL MEETINGS (continued):

- Sanchez, C. A., **Ash, I. K.** & Wiley, J. (2004, November). Making inferences from WebPages. Poster presented at the 45th Annual Meeting of the Psychonomic Society: Minneapolis, MN.
- Ash, I. K.** & Wiley, J. (2004, May). Ah-Ha! I knew it all along. Hindsight bias evidence of restructuring in problem solving. Paper presented at the Annual Meeting of the Midwestern Psychological Association: Chicago, IL.
- Ash, I. K.** & Nokes, T. J. (2003, August). Instructional focus does not affect implicit pattern learning. Paper presented at the 25th Annual Conference of the Cognitive Science Society: Boston, MA.
- Nokes, T. J. & **Ash, I. K.** (2003, May). Does attention matter for implicit learning? Paper presented at the Annual Meeting of the Midwestern Psychological Association: Chicago, IL.
- Kershaw, T. C. **Ash, I. K.**, Jolly, C., & Wiley, J. (2002, November). The role of working memory in insight problem solving. Poster presented at the 42nd Annual Meeting of the Psychonomic Society: Kansas City, Missouri.
- Ash, I. K.** & Wiley J. (2002, August). AH-HA! I knew it all along: Differences in hindsight bias between insight and algebra problems. Paper presented at the 24th Annual Conference of the Cognitive Science Society: Washington DC.
- Nokes, T. J. & **Ash, I. K.** (2002, May). An examination of the role of attentional focus in implicit learning. Paper presented at the Annual Meeting of the Midwestern Psychological Association: Chicago, IL.
- Ash, I. K.** & Wiley, J (2001, November). Hindsight bias in problem solving. Poster presented 42nd Annual Meeting of the Psychonomic Society, Orlando, FL.
- Wiley, J., **Ash, I. K.**, Brodhead, A. & Sanchez, C. (2001, May). The impact of images on learning from WebPages on science and history. Poster presented at the Annual Meeting of the Midwestern Psychological Association: Chicago, IL.
- 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.

Ash, I. K. (Summer, 1999). “Cardiac Measures of Vehicular Control.” Undergraduate Summer Research Fellowship. Competitive summer fellowship awarded by Central Michigan University’s Office of Research. \$3000.

Ash, I. K. (Spring & Fall, 1999). “Cardiac Measures of Vehicular Control.” Two Undergraduate Research Grants from Central Michigan University. Total \$500.

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. Piorkowski 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.
- Research Travel Funding Awards for (2002, 2003, & 2004). Awarded by the Graduate Student Counsel of University of Illinois at Chicago. Total \$900.
- Outstanding Psychology Graduate of the Year (1999). Awarded by the faculty of the Psychology Department at Central Michigan University.
- Psi Chi Award for Outstanding Service (1999). Awarded by the Central Michigan University’s Chapter of Psi Chi National Honors Society in Psychology.

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: 4 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. 2 semesters.

RESEARCH MENTORING:

Undergraduate Supervised Research:

1. Gozaim Ogwu: Spring 2006, now at Psy.D. program at Wright State University
2. David Finch: Spring & Fall, 2007
3. Amanda Fletcher: Spring 2007
4. Jennifer Taylor: Spring & Fall 2007, now at Ph.D. program at University of South Carolina
5. JoAnne Boyce: Fall 2007-Spring 2008
6. Heather Scruggs: Spring 2008
7. Ashley Phillips: Spring & Fall 2008
8. Shari Osborne: Fall 2008
9. Linda Walubengo: Fall 2008
10. Grace Chiou: Spring 2008-Spring 2009
11. Erick Morgan: Fall 2008-Spring 2009
12. Sara Peoples: Fall 2008 – Fall 2009
13. Jessica Erickson: Fall 2009

Undergraduate Honors Thesis:

1. Jennifer Morey (McMaster): Spring 2007-Spring 2008, 2007-2008 Chaiken award for best Honors Thesis in Psychology. Now at Ph.D. program at West Virginia University
2. Scott Miles: Fall 2008 –present: Awarded a Spring 2009 Honor's College Undergraduate Research Program Grant, \$1000.

Masters Program:

1. Clinton S. Comer: Graduated Summer 2008, now at Ph.D. program at Virginia Tech
2. Brad Whittet: Fall 2008-Graduated Fall 2009

Ph.D. Program:

1. Rebekka A. Gordon (Althouse): Industrial Organizational, Graduated Summer 2008
2. Luke Lin: Human Factors, Fall 2006- Spring 2008
3. Ann Edwards: Applied Experimental, Fall 2007-Fall 2009 (MS Fall 2009)
4. Ross May: Applied Experimental, Fall 2008-present
5. Martin Smith-Rodden: Applied Experimental, Fall 2006-present (MS Fall 2009)
6. Viktoria Tidikyte: Applied Experimental, Fall 2007-present (MS Fall 2009)

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*
 - *Proceedings of the Annual Meeting of the Cognitive Science Society*
- Summer 2004: Graduate Student Volunteer: The 26th Annual Meeting of the Cognitive Science Society. Chicago IL.
- 2003: Reviewer for chapter in Conway, Jarrold, Kane, Miyake, & Towse (2007). Variation in Working Memory. Oxford University Press.
- Summer 2003. Graduate Student Volunteer: Variation in Working Memory Conference: University of Illinois at Chicago. Chicago, IL.
- Summer 2002: Graduate Student Volunteer: The 12th Annual Meeting of the Society for Text and Discourse. Chicago, IL.

UNIVERSITY PRESENTATIONS & INVITED TALKS:

- Ash, I. K.** & Comer, C. S.¹ (2008, October). Why is reasoning hard? The interaction of cognitive ability and strategy in deductive reasoning performance. Psychology Department Brownbag Series. Old Dominion University. Norfolk, VA
- Comer, C. S.¹, Boyce, E. J.² & **Ash, I. K.** (2008, April). The effect of instruction type and working memory on syllogistic reasoning performance. Poster presented at the annual Old Dominion University Research Expo. Norfolk, VA
- Morey, J N.², Scruggs, H. N.² & **Ash, I. K.** (2008, April). The effects of post-outcome information on the hindsight bias: a comparison of three cognitive reconstruction theories. Poster presented at the annual Old Dominion University Research Expo. Norfolk, VA. *Received honorable mention for outstanding undergraduate poster presentation in the Behavioral, Health and Life Sciences.*
- Smith-Rodden, M.¹, Taylor, J. L.², **Ash, I. K.**, Derlega, V. J., & Edwards, A. L.¹ (2008, April). An implicit measures study of AIDS and cancer-related stigma. Poster presented at the annual Old Dominion University Research Expo. Norfolk, VA.
- Ash, I. K.** (2007, November). Expectation, surprise, and the hindsight bias: The effect of information and outcome congruency on retrospective judgments. Invited colloquium given to the Human Factors and Applied Cognition Division. George Mason University. Fairfax, VA.
- Ash, I. K.** (2007, April). Expectation, surprise, and the hindsight bias: The effect of information and outcome congruency on retrospective judgments. Invited presentation given at the College of Business and Public Administration Dean's Research Seminar. Old Dominion University: Norfolk, VA.
- Ash, I. K.** (2007, March). Negotiating during hiring. Invited presentation given at the Preparing Future Faculty Event, "The New Faculty Experience." Old Dominion University: Norfolk, VA.
- Ash, I. K.** (2006, October). Individual difference in working memory and problem solving. Invited presentation to the Neuropsychology Post-Doctoral Rounds: Eastern Virginia Medical Center: Norfolk, VA.
- Ash, I. K.** (2006, February). The dual process approach in learning, task performance, and problem solving. Invited presentation to the Human Factors & Ergonomics Society Student Chapter. Old Dominion University: Norfolk, VA.

UNIVERSITY PRESENTATIONS & INVITED TALKS (continued):

- Ash, I. K.** (2005, October). Using individual differences predictions to test performance theories: A problem-solving example. Invited presentation to the Cognitive Neuroscience, Audition, Aging, Aviation and Driving Laboratory: Old Dominion University: Norfolk, VA.
- Ash, I. K.** (2005, March). Hindsight bias and surprise: Surprise! Cognitive Psychology Brown Bag Series. University of Illinois at Chicago: Chicago, IL.
- Ash, I. K.** & Wiley, J. (2004, September). Working memory & insightful problem solving. Cognitive Psychology Brown Bag Series. University of Illinois at Chicago: Chicago, IL.
- Ash, I. K.** (2003, April). Hindsight bias measures of restructuring in problem solving. Sigma Xi Annual Graduate Research Forum. University of Illinois at Chicago: Chicago, IL.
- Ash, I. K.** & Wiley, J. (2003, March). Hindsight bias measures of restructuring in problem solving. Cognitive Psychology Brown Bag Series. University of Illinois at Chicago: Chicago, IL.
- Nokes, T. J. & **Ash, I. K.** (2002, January). The tension between attention and inattention: An examination of the role of attentional focus in implicit learning. Cognitive Psychology Brown Bag Series. University of Illinois at Chicago: Chicago, IL.
- Ash, I. K.** (2001, April). Hindsight bias in problem solving. Cognitive Psychology Brown Bag Series. University of Illinois at Chicago: Chicago, IL.

