

# Amy H. Criss

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## Academic Positions

Assistant Professor, Department of Psychology, Syracuse University, 2007 -

Adjunct Assistant Professor, Department of Psychiatry, SUNY Upstate Medical University, 2008-

Research Faculty, Center for Health and Behavior, Syracuse University, 2007 -

Postdoctoral Fellow, Center for the Neural Basis of Cognition (with James L. McClelland), Carnegie Mellon University, 2004-2007.

## Education

Ph.D., Indiana University. Joint degree in Cognitive Psychology and Cognitive Science with a certificate in Mathematical Modeling (advisor: Richard M. Shiffrin), 2004.

B.A., Miami University. Psychology and Neuroscience (*magna cum laude*), 1997.

## Awards and Honors

Student Research Achievement Award, Indiana University, Department of Cognitive Science.

Outstanding Dissertation Award, Indiana University, Department of Cognitive Science.

Fellow, McDonnell Foundation Summer Institute in Cognitive Neuroscience, Dartmouth College, 2001.

## Funding

National Science Foundation CAREER award, pending

National Science Foundation (HRD-0202171), Central New York - Puerto Rico (CNY-PR) Alliance for Graduate Education and Professoriate (AGEP), summer research project, 2008.

National Institutes of Mental Health Training Grant (Combined Computational and Behavioral Approaches to the Study of Cognition), 2005-2006.

National Institutes of Mental Health Training Grant (Variation in Mental Function and Dysfunction), 2004-2005.

Indiana University College of Arts and Sciences Dissertation Year Research Fellowship, 2003-2004.

National Science Foundation Graduate Student Fellowship, 1999-2002.

## **Professional Service**

Editorial Board Member: *Journal of Memory & Language*

Ad Hoc Reviewer for: *Aging, Neuropsychology and Cognition*; *Conference Proceedings of the Cognitive Science Society*; *Developmental Psychology*; *European Journal of Cognitive Psychology*; *Journal of Experimental Psychology: General*; *Journal of Experimental Psychology: Learning, Memory, & Cognition*; *Memory & Cognition, Perception & Psychophysics*; *Psychonomic Bulletin & Review*; *Psychological Review*; *Quarterly Journal of Experimental Psychology*

Conference Co-organizer, Hoosier Mental Life, Bloomington, IN, 2001.

## **Courses Taught**

Undergraduate Level:

Cognitive Psychology (PSY 322)

Introduction to Research Methodology (PSY 313)

Independent Study / Research in Cognitive Psychology (PSY 290/292/490/492)

Graduate Level:

Cognitive Psychology: Memory & Attention (PSY 622)

Independent Study (PSY 690)

Proseminar Methods (PSY 611)

## **Publications**

Criss, A.H. (under review). Differentiation and Response Bias in Episodic Memory: Evidence from Reaction Time Distributions. *Journal of Experimental Psychology: Learning, Memory, & Cognition*

Criss, A.H. (in press). The Distribution of Subjective Memory Strength: List Strength and Response Bias. *Cognitive Psychology*.

Criss, A. H. & Malmberg, K. J. (2008). Evidence in support of the elevated attention hypothesis of recognition memory. *Journal of Memory & Language*, 59, 331-345.

Klein, K.A., Shiffrin, R.M., and Criss, A.H. (2007). Putting context in context. In J. S. Nairne (Ed.), *The Foundations of Remembering: Essays in Honor of Henry L. Roediger III*. New York: Psychology Press.

Criss, A. H. (2006). The consequences of differentiation in episodic memory: Similarity and the strength based mirror effect. *Journal of Memory & Language: Special Issue on Computational Models of Memory*, 55, 461-478.

- Criss, A. H. and McClelland, J.L. (2006). Differentiating the differentiation models: A comparison of the retrieving effectively from memory model (REM) and the subjective likelihood model (SLiM). *Journal of Memory & Language: Special Issue on Computational Models of Memory*, 55, 447-460 [lead article].
- Criss, A.H. and Shiffrin, R.M. (2005). List discrimination and representation in associative recognition. *Journal of Experimental Psychology: Learning, Memory, & Cognition*, 31(6), 1199-1212
- Criss, A.H. (2005). The representation of single items and associations in episodic memory. (Doctoral dissertation, Indiana University, 2004). *Dissertation Abstracts International-B*, 65(12), 6882.
- Criss, A.H. and Shiffrin, R.M. (2004a). Context noise and item noise jointly determine recognition memory: A comment on Dennis & Humphreys (2001). *Psychological Review*, 111(3), 800-807.
- Criss, A.H. and Shiffrin, R.M. (2004b). Interactions between study task, study time, and the low frequency hit rate advantage in recognition memory. *Journal of Experimental Psychology: Learning, Memory, & Cognition*, 30(4), 778-786.
- Criss, A.H. and Shiffrin, R.M. (2004c). Pairs do not suffer interference from other types of pairs or single items in associative recognition. *Memory & Cognition*, 32(8), 1284-1297.
- Klein, K., Criss, A.H., and Shiffrin, R.M. (2004). Recency judgments and list context. *Proceedings of the Twenty-Sixth Annual Meeting of the Cognitive Science Society* (p. 1578). Mahwah, NJ: Erlbaum.

## **Invited Talks**

2008: University of Massachusetts, Amherst

2007: Ohio University, University of Connecticut, Purdue University, University of Hawaii, University of Colorado, Boulder, University of North Carolina Greensboro

2006: Syracuse University, Tufts University, University of New Hampshire, SUNY Buffalo, Williams College

2005: University of South Florida, Carnegie Mellon University, Iowa State University

2004: George Washington University

## **Conference Presentations**

Criss, A.H. (2009, November), Encoding Strength: Differentiation or Criterion Shift? Talk given at the annual Psychonomic Society Meeting, Boston, MA.

Criss, A.H. (2009, August), Differentiation and response bias in episodic memory: evidence from reaction time distributions. Talk given at the Society for Mathematical Psychology annual meeting, Amsterdam, The Netherlands.

- Criss, A.H. (2009, July), Differentiation and response bias in episodic memory: evidence from reaction time distributions. Talk given at the Annual Summer Interdisciplinary Conference, Sarre, Italy.
- Criss, A.H. (2009, January). An application of the diffusion model to the strength based mirror effect in recognition memory. Talk given at the Context in Episodic Memory Symposium, West Palm Beach, FL.
- Criss, A.H. & Malmberg, K.J. (2008, November). Evidence in Favor of the Early-Phase Elevated-Attention Hypothesis. Poster presented at the annual Psychonomic Society Meeting, Chicago, IL.
- Criss, A.H. (2008, July), The strength assumption vs differentiation: Evidence from direct ratings of memory strength. Talk given at the Society for Mathematical Psychology annual meeting, Washington DC.
- Criss, A.H. (2008, January). The strength based mirror effect: Tests of the differentiation account. Context in Episodic Memory Symposium. Tampa, FL
- Criss, A.H. (2006, August). Differentiation, similarity, and the strength based mirror effect. Annual Summer Interdisciplinary Conference. Andslesnes, Norway
- Criss, A.H. (2006, July). Differentiation, similarity, and the strength based mirror effect. Annual Meeting of the Society for Mathematical Psychology. Vancouver, B.C., Canada
- Criss, A.H. (2006, January). An empirical test of differentiation in episodic memory. Annual Interdisciplinary Conference. Jackson Hole, WY
- Criss, A.H. (2005, November). Orienting task, letter distinctiveness, and the word frequency effect in recognition memory. Annual Meeting of the Psychonomic Society. Toronto, ON
- Klein, K.A., Criss, A.H., & Shiffrin, R.M. (2005, August). Putting recency into context. Annual Summer Interdisciplinary Conference, Briançon, France.
- Criss, A.H. & McClelland, J. (2005, July). A comparison of the subject likelihood model (SLiM) and the retrieving effectively from memory model (REM). Annual Meeting of the Society for Mathematical Psychology. Memphis, TN
- Klein, K.A., Criss, A.H., & Shiffrin, R.M. (2005, March). Putting recency into context. Hoosier Mental Life 2005, Oxford, Ohio.
- Criss, A.H. (2005, February). When context fails. Symposium on Context in Episodic Memory. Philadelphia, PA
- Klein, K., Criss, A.H., and Shiffrin, R.M. (2004, August). Judgments of recency and list context. Annual Summer Interdisciplinary Conference. Cavalese, Italy
- Criss, A.H. (2004, August). Dissimilar representations: Modeling associations and items. Annual Summer Interdisciplinary Conference. Cavalese, Italy

- Criss, A.H. & Shiffrin, R.M. (2003, August). A re-examination of the hit rate advantage for low frequency words in recognition memory. Annual Summer Interdisciplinary Conference. Squamish, B.C.
- Criss, A.H. & Shiffrin, R.M. (2003, July). The effect of study task on the low frequency hit rate advantage. Annual Meeting of the Society for Mathematical Psychology. Ogden, UT
- Criss, A.H. & Shiffrin, R.M. (2003, January). Memory representations of single items and pairs. Annual Interdisciplinary Conference. Jackson Hole, WY
- Criss, A.H. & Shiffrin, R.M. (2002, August). The representation of associative information. Annual Summer Interdisciplinary Conference. Squamish, B.C.
- Criss, A.H., McCreary, P. & Shiffrin, R.M. (2002, March). Context effects in recognition memory - comparing novel vs. known items. Hoosier Mental Life. Columbus, OH.
- Shiffrin, R.M., Cohen, A. & Criss, A.H. (2002, January). Relating recognition memory to categorization with Bayesian modeling. Annual Interdisciplinary Conference. Jackson Hole, WY
- Criss, A.H. & Shiffrin, R.M. (2001, November). Interference in associative recognition. Annual Meeting of the Psychonomic Society. Orlando, FL
- Criss, A.H. & Shiffrin, R.M. (2001, July). Recognition of associative information. Annual Meeting of the Society for Mathematical Psychology. Providence, RI
- Criss, A.H., Malmberg, K., Shiffrin, R.M., & Zeelenberg, R. (2001, March). When is context information stored? A test of the one-shot hypothesis. Hoosier Mental Life. Bloomington, IN.
- Dodge, L., Criss, A.H., McAuley, D. & Shiffrin, R.M. (2001, March). Familiarization effects on context discrimination for novel melodies. Hoosier Mental Life. Bloomington, IN.
- Criss, A.H. & Shiffrin, R.M. (2001, January). Why are you confused? Item and context noise in recognition memory. Annual Interdisciplinary Conference. Jackson Hole, WY
- Criss, A.H. & Shiffrin, R.M. (2000, March). List-noise vs. context-noise models of recognition memory. Hoosier Mental Life. South Bend, IN.
- Criss, A.H. & Shiffrin, R.M. (2000, January). Testing context-noise vs. global-familiarity models of memory. Annual Interdisciplinary Conference. Jackson Hole, WY
- Asaka, Y., Seager, M.A., Criss, A.H., Harlan, K.M., and Berry, S.D. (1997, November). Scopolamine disruption of conditioned behavioral and hippocampal responses in appetitive trace classical conditioning. Annual Meeting of the Society for Neuroscience. New Orleans, LA.
- Thomas, R.D. and Criss, A.H. (1997, November). Handedness as a source of individual differences in category learning. Annual Meeting of the Psychonomic Society. Philadelphia, PA.