



# Anthony S. Barnhart

Memory & Language Lab  
Department of Psychology  
Box # 871104  
Arizona State University  
Tempe, AZ 85287-1104

Email: Anthony.Barnhart@ASU.edu  
Lab Phone: 480.965.1377  
Mobile Phone: 708.710.1345  
URL: www.AnthonyBarnhart.com

Curriculum Vitae

Anthony S. Barnhart

## Education

- M.A., Cognitive Psychology (2009), Arizona State University, Tempe, AZ.
- Thesis: *Hemispheric Asymmetries in Handwritten Word Recognition.*
- B.A., Psychology (2004), Augustana College, Rock Island, Illinois.
- *Cum Laude*
  - Member: Psi Chi Honors Society
  - Minor in Theatre

## Academic Positions

- 2007-Present **Graduate Research Assistant**, Memory & Language Laboratory, Department of Psychology, Arizona State University, Tempe, Arizona
- NIH Grant R01-DC04535. *Speech Perception and Memory in an Episodic Lexicon.* Grant awarded to Stephen D. Goldinger (Principal Investigator) and Tamiko Azuma (Co-Investigator).
- 2006-Present **Graduate Teaching Assistant**, Department of Psychology, Arizona State University, Tempe, Arizona.
- 2004-2006 **Visiting Research Specialist**, Institute for Health Research and Policy, School of Public Health, University of Illinois at Chicago, Chicago, Illinois.
- Worked on the "Piece by Piece: Making Health Connections" project under Dr. Robin Mermelstein & Dr. Kathleen Diviak.
  - [www.healthconnectionsstudy.org](http://www.healthconnectionsstudy.org)
- 2003-2004 **Assistant Statistical Analyst**, Rock Island Regional Office of Education, Rock Island, Illinois

- Assisted Dr. Daniel Corts in assessing the effectiveness of the “Lights on for Learning” after-school program.

- 2003-2004     **Psychology Assistant**, Psychology Department, Augustana College, Rock Island, Illinois
- Assisted Dr. R. A. Johnson in adolescent development, theories of personality, and abnormal psychology courses.

## In the Scientific Eye

### Publications

Barnhart, A. S. (2010). The exploitation of Gestalt principles by magicians. *Perception*, 39, 1286-1289. doi:10.1068/p6766

Barnhart, A. S. & Goldinger, S. D. (2010). Interpreting chicken-scratch: Lexical access for handwritten words. *Journal of Experimental Psychology: Human Perception and Performance*, 36, 906-923. doi: 10.1037/a0019258

### Presentations

Barnhart, A. S. & Goldinger, S. D. (2011, November). *Rotation reveals the importance of configural cues in handwritten word perception*. Poster presented at the Object Perception, Attention, & Memory Conference in Seattle, WA.

Barnhart, A. S. (2011, August). *Using magic to reconcile inattentional blindness and attentional misdirection*. Poster presented at the 16<sup>th</sup> European Conference on Eye Movements in Marseille, France.

Barnhart, A. S. & Goldinger, S. D. (2010, November). *Get a grip: Motor contributions to handwritten word recognition*. Poster presented at the annual Neurobiology of Language Conference in San Diego, CA.

Barnhart, A. S., Goldinger, S. D., & Perfetti, C. A. (2009, November). *Get a grip and go for Broca*. Poster presented at the annual meeting of the Psychonomic Society in Boston, MA.

- Barnhart, A. S. & Goldinger, S. D. (2009, October). *Hemispheric asymmetries in handwritten word recognition*. Poster presented at the Neurobiology of Language Conference, Chicago, IL.
- Barnhart, A. S. & Goldinger, S. D. (2009, April). *Get a grip and go for Broca*. Presented paper at the annual meeting of the Western Psychological Association in Portland, OR.
- Barnhart, A. S. (2009, February). *Psychology & magic part II*. Cognition, Action, & Perception weekly seminar, Arizona State University, Tempe, AZ.
- Barnhart, A. S. (2007, December). *Magic and psychology*. Cognition, Action, & Perception weekly seminar, Arizona State University, Tempe, AZ.
- Barnhart, A. S. & Goldinger, S. D. (2007, November). *Interpreting chicken-scratch: Lexical access with handwritten words*. Poster presented at the annual meeting of the Psychonomic Society in Long Beach, CA.
- Barnhart, A. S. & Goldinger, S. D. (2007, April). *Interpreting chicken-scratch: The effects of consistency, regularity, frequency, neighborhood density, and semantics on handwritten word recognition*. Presented paper at Cognition, Action, & Perception weekly seminar, Arizona State University, Tempe, AZ.

### Invited Talks

- Invited Talk (2011, October): *Sleights of mind: The neuroscience of magic*. Lecture with Drs. Stephen Macknik & Susana Martinez-Conde. 49<sup>th</sup> annual "New Horizons in Science" conference sponsored by the Council for the Advancement of Science Writing and the National Association of Science Writers, Flagstaff, AZ.
- Invited Talk (2011, May): *On the appeal of pre-attentive processes for magicians*. Sleights of Mind 2011 Conference, Vigo, Spain.
- Invited Talk (2009, October): *The Psychology of Magic*. Department of Psychology, Augustana College, Rock Island, IL.
- Invited Talk (2009, February): *Sleight-of-Handwriting: How the methodologies of magicians and the ability to read handwriting depend on top-down processes*. Barrow Neurological Institute, Phoenix, AZ.

Invited Lecture (2006, December): *The Psychology of Magic*. Dr. Robert Short's Introductory Psychology Class, Arizona State University, Tempe, AZ.

## In the Laboratory

- 2009-Present **Saccade Induced Retrieval Enhancement:** Examining how repetitive eye movements may benefit memory retrieval.
- 2009-Present **The Psychology of Magic:** Using magic tricks as a tool to understand attention & testing the intuitions of magicians.
- 2008-Present **Hemispheric Asymmetries in Handwritten Word Recognition**
- 2007-Present **Handwriting & Grip Force:** Examining the interaction between lexical access and motor activation in the hand.
- 2006-Present **Processes in Human Handwriting Recognition:** Examining the processes underlying the recognition of handwritten word forms including the variables affecting ease of recognition and the differences between recognition of handwritten and typewritten forms.
- 05/2004-08/2004 **Sexuality Education Efficacy:** Composed a review article of the research regarding nationally-funded sexuality education programs for the Council on Contemporary Families.
- 09/2003-05/2004 **Visuo-motor Priming:** Tested whether gestural cues could prime the selection of an object containing affordances congruent with the cue.
- 05/2003-12/2003 **Social Contagion of Memory:** Looked at the role that an individual in a group can play in implanting false memories into other members of the group.
- 12/2002-12/2003 **Humor:** Examined how the situational elements of humor interact with individual differences in the framework of Russell's (1996) model.
- 12/2002-05/2003 **Suspension of Disbelief:** Developed a scale to measure individual differences in the ability to suspend disbelief.

## In the Public Eye

### Public Lectures

*The Psychological Bases of Legerdemain* (2011, December). Lecture for the "Village College" at Monte Vista Village Resort, Mesa, AZ.

*Sleights of Mind* (2010, December). Lecture with Drs. Stephen Macknik & Susana Martinez-Conde to the Spirit of the Senses salon, Phoenix, AZ.

*The Science Behind Magic* (2010, November). Lecture with Drs. Stephen Macknik & Susana Martinez-Conde at Seattle Science Lectures series, Seattle Town Hall, Seattle, WA.

*The Psychological Bases of Legerdemain* (2010, June). Lecture to the Phoenix Objectivists, Phoenix, AZ.

*The Psychology of Magic* (2010, June). Lecture to the Strategic Edge Business Alliance, Phoenix, AZ.

*The Psychological Bases of Legerdemain* (2010, March). Lecture to the Humanist Society of Greater Phoenix, Phoenix, AZ.

*The Eyes Have It: Eyes as a Window to Cognition* (2009, February). Ignite Phoenix event, Tempe, AZ.

*A Priming Primer* (2008, October). Ignite Phoenix event, Phoenix, AZ.

### Television Appearances

*Automatic Brain: The Magic of the Unconscious* (2011, December). "colourFIELD Tell-A-Vision" documentary aired in Sweden, Ireland, Finland, Greece, Switzerland, & Cyprus. [http://colourfield.de/das\\_automatische\\_gehirn/index.html](http://colourfield.de/das_automatische_gehirn/index.html)

Los "Trucos" del Cerebro (2011, May). LaInformacion.com, Spain. [http://videos.lainformacion.com/ciencia-y-tecnologia/ciencias-general/los-trucos-del-cerebro\\_0Rz6GA5Yh62Erl0s4dWfo4/](http://videos.lainformacion.com/ciencia-y-tecnologia/ciencias-general/los-trucos-del-cerebro_0Rz6GA5Yh62Erl0s4dWfo4/)

*The Science of Magic* (2010, December). PBS Eight "Horizon" program, Phoenix, AZ. Video and transcript: <http://www.azpbs.org/horizon/detail.php?id=1522#TheScienceofMagic>

*Sleights of Mind* (2010, November). KING5 "New Day Northwest" program, Seattle, WA.

*Magic Health* (2009, July). KTVK "9pm Extra" segment, Phoenix, AZ.  
<http://youtu.be/MLMyZ0PL5G4>

## In the Classroom

### Teaching Experience

**Instructor:** Memory & Cognition (Fall 2011, Arizona State University)

**Instructor :** Psychology 101 (Spring 2010, Arizona State University)

**Lab Instructor:** Research Methods (Fall 2009, Arizona State University)

**Teaching Assistant:** Introduction to Statistics (Fall 2008; Instructor: Dr. Leona Aiken, Arizona State University)

**Teaching Assistant:** Psychology 101 (Spring 2007; Instructor: Dr. Linda Ruehlman, Arizona State University)

**Teaching Assistant:** Psychology 101 (Fall 2006; Instructor: Dr. Robert Short, Arizona State University)

### Quantitative Training

- **ANOVA** (Instructor: Dr. Craig Enders)
- **Multiple Regression** (Instructor: Dr. Stephen G. West)
- **Multivariate Statistics** (Instructor: Dr. Leona S. Aiken)