

**Mark Stewart – March 2005**

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1995 - Ph.D. Experimental Psychology, University of Nevada, Reno

1986 - B.A. Psychology, University of California, Santa Barbara

**Employment**

Associate Professor - Willamette University, F02 – present

Assistant Professor - Willamette University, F98 – Sp02

Courses: sensation & perception, introductory psychology, research methods, statistics, psycholinguistics, cognitive science, human experimental psychology

**Previous Positions**

Instructor - University of California, San Diego, Su98

Course taught: physiological psychology

Instructor - San Diego State University, Su97 – Sp98

Courses taught: physiological, sensation & perception, learning & memory, cognition

Instructor (part-time) - University of San Diego, Sp97

Course taught: psychobiology

Instructor (part-time) - San Diego State University, Sp96 – Sp97

Courses taught: physiological, sensation & perception, learning & memory

Lecturer (part-time) - University of Nevada, Reno, F91 & Sp95

Courses taught: sensation & perception, physiological

Visiting Scholar - Center for Brain and Cognition

University of California San Diego, Su97 – Su98

NIH Postdoctoral Fellow - Center for Brain and Cognition

University of California San Diego, Su95 – Su97

Research Assistant, University of Nevada, Reno, Sp91 – F94

**Courses Taught (times)**

Experimental/Res. Methods (11)

Cognition (4)

Physiological (22)

Learning and Memory (2)

Sensation and Perception (16)

Introductory (5)

Statistics (5)

Psycholinguistics (2)

### **Research Interests**

Synesthesia: memory, perceptual processes, computational models

Psycholinguistics: lexical access, speech segmentation, figurative language comprehension, speech disfluencies, bilingual processing

### **Peer-Reviewed Publications**

Heredia, R. R. & Stewart, M. T. (2002). On-line methods in bilingual spoken language research. In R. R. Heredia & J. Altarriba (Eds.), *Bilingual Sentence Processing*, Amsterdam: Elsevier.

Stewart, M. T. & Heredia, R. R. (2002). Comprehending spoken metaphoric reference: A real-time analysis. *Experimental Psychology*, 1, 102-106.

Wallace, W. P., Stewart, M. T., Shaffer, T. R., & Wilson, J. A., (1998). A two-phase lexical activation model for recognition of spoken stimuli: Influencing words activated in phase I. *Journal of Experimental Psychology: Learning, Memory, and Cognition*.

Wallace, W. P., Stewart, M. T., & Malone, C. P. (1995). Recognition memory errors produced by implicit activation of word candidates during the processing of spoken words. *Journal of Memory and Language*, 34, 417-439.

Wallace, W. P., Stewart, M. T., Sherman, H. L., & Mellor, M. D. (1995). False positives in recognition memory produced by cohort activation. *Cognition*, 55, 85-113.

Stewart, M. T., & Wallace, W. P. (1993). Effects on later recognition of misperceived spoken words following two attempts at initial identification. *Psychonomic Bulletin and Review*, 31, 471-474.

### **Juried Published Abstracts**

Scolari, M. R., Schroeder, A. L. & Stewart, M. T. (2003). Photism Distinctiveness and recall accuracy in a grapheme-color synesthete. *Abstracts of the Psychonomic Society*, 8, (4036), 44th Meeting of the Psychonomic Society, Vancouver, BC

Heredia, R. R., Stewart, M. T., & Martinez, K. M. (2003). Metaphoric reference: An examination of bilingual figurative language processing. Paper, 16th Annual CUNY Conference on Human Sentence Processing, Massachusetts, Institute of Technology (MIT), Cambridge, MA

Stewart, M. T. & Heredia, R. R. (1998). Evidence of contextual facilitation during comprehension of reference metaphor. *Abstracts of the Psychonomic Society*, 3, (462), 39th Meeting of the Psychonomic Society, Dallas, TX

Heredia, R. R. & Stewart, M. T. (1998). Bilingual online sentence processing: A moment-to-moment processing approach. *Abstracts of the Psychonomic Society*, 3, (623), 39th Meeting of the Psychonomic Society, Dallas, TX

Stewart, M. T., Heredia, R. R., & Guzman, D. (1997). Moment-to-moment processing of reference metaphors during comprehension of spoken sentences. *Abstracts of the Psychonomic Society*, 2, (478), 38th Meeting of the Psychonomic Society, Philadelphia, PA

Heredia, R. R., Stewart, M. T., & Cregut, M. (1997). Bilingual on-line sentence processing: Frequency and context effects in code switching. *Abstracts of the Psychonomic Society*, 2, (91), 38th Meeting of the Psychonomic Society, Philadelphia, PA

Stewart, M. T. (1996). Activation of words by nonwords: The importance of word onsets revisited. *Abstracts of the Psychonomic Society*, 1, (303), 37th Meeting of the Psychonomic Society, Chicago, IL

### **Manuscripts Under Review**

Stewart, M. T. & Heredia, R. R. Observing figurative language comprehension through an auditory moving window: What role, context? *Experimental Psychology*.

### **Research In Progress**

Stewart, M. T. Color-congruency adversely impacts recognition memory in synesthetes.

Heredia, R. R. & Stewart, M. T. Language-borrowing and code-switching in Spanish English bilinguals: Evidence from the auditory moving window task.

Stewart, M. T. & Heredia, R. R. Comprehending figurative reference: Re-evaluating the reading comprehension task.

### **Professional Presentations**

Stewart, M. T. (2004). Photism congruency and false recognition in grapheme-color synesthetes. Presenter, 4<sup>th</sup> meeting of the American Synesthesia Association, Institute of Cognitive and Brain Sciences, University of California, Berkeley

Stewart, M. T. (2004). The impact of photistic congruency on recognition memory in grapheme-color synesthesia. Presenter, Cognitive Science Association for Interdisciplinary Learning, Hood River, OR

- Scolari, M. R., Schroeder, A. L. & Stewart, M. T. (2004). The impact of synesthetic photisms on memory for words. Presentation, 84<sup>th</sup> meeting of the Western Psychological Association, Phoenix, AZ
- Schroeder, A. L., Scolari, M. R. & Stewart, M. T. (2004). Priming synesthetic photisms with words: Does strength matter? Presentation, 84<sup>th</sup> meeting of the Western Psychological Association, Phoenix, AZ
- Scolari, M. R., Schroeder, A. L. & Stewart, M. T. (2003). Photism Distinctiveness and recall accuracy in a grapheme-color synesthete. Presentation, 44<sup>th</sup> meeting of the Psychonomic Society, Vancouver, BC
- Heredia, R. R., Stewart, M. T., & Martinez, K. M. (2003). Metaphoric reference: An examination of bilingual figurative language processing. Paper, 16th Annual CUNY Conference on Human Sentence Processing, Massachusetts, Institute of Technology (MIT), Cambridge, MA
- Stewart, M. T. (2001). Segmentation of the Speech Stream During Real-Time Comprehension of Spoken Sentences. Poster, 81st meeting of the Western Psychological Association, Maui, HI
- Joa, D. & Stewart, M. T. (2001). Metaphoric reference through a visual moving window. Poster, 81st meeting of the Western Psychological Association, Maui, HI
- Baker, J. & Stewart, M. T. (2000). Salience and automaticity of metaphor comprehension: Determining the ease with which we comprehend metaphorical speech. Poster, 80th meeting of the Western Psychological Association, Portland, OR
- Guzman, D. & Stewart, M. T. (1998). Examining the effects of context on metaphoric reference: Evidence from the auditory moving window task. Paper presentation, 7<sup>th</sup> Annual UCSD Summer Research Conference, San Diego, CA
- Guzman, D., Edgmon, T., Stewart, M. T., & Heredia, R. R. (1998). Observation of figurative reference through an auditory moving window. Poster, 3rd Joint meeting of the Western and Rocky Mountain Psychological Associations, Albuquerque, NM
- Wallace, W. P. & Stewart, M. T. (1997). Perceptual processing and recognition memory errors. Chapter, Conference Proceedings from the 4th Annual meeting of the Australasian Cognitive Science Society, University of Newcastle, Australia.
- Stewart, M. T., & Wallace, W. P. (1996). Multiple phonemic changes before and after critical positions in speech recognition. Paper, 66th meeting of the Rocky Mountain Psychological Association, Park City, UT
- Stewart, M. T., & Wallace, W. P. (1995). Paired phoneme substitutions and remembering words you haven't heard. Poster talk, 36th meeting of the Psychonomic Society, Los

Angeles, CA

Malone, C., Stewart, M. T., & Wallace, W. P. (1995). Word beginnings have special status in producing false positives in auditory recognition memory. Paper, 65th meeting of the Rocky Mountain Psychological Association, Boulder, CO

Stewart, M. T., Wilson, J. A., & Wallace, W. P. (1995). Locus of nonword deviation points and recognition memory errors: A monotonic relation. Paper, 65th meeting of the Rocky Mountain Psychological Association, Boulder, CO

Appert, C., Stewart, M. T., & Wallace, W. P. (1994). False positives in recognition memory produced by on-line processing of spoken words. Paper, 64th meeting of the Rocky Mountain Psychological Association, Las Vegas, NV

Stewart, M. T., Sherman, H. L., Mellor, M. D., & Wallace, W. P. (1993). Effects of spoken non-words on recognition memory: evaluating two models. Paper, 2nd Joint meeting of the Western and Rocky Mountain Psychological Associations, Phoenix, AZ

Wallace, W. P., & Stewart, M. T. (1992). Pre-recognition processing of spoken nonwords affects subsequent word recognition. Paper, 33rd meeting of the Psychonomic Society, St. Louis, MO

Stewart, M. T., & Wallace, W. P. (1992). Recognizing spoken words that are misperceived: pre- or post-access processing? Paper, 62nd meeting of the Rocky Mountain Psychological Association, Boise, ID

Stewart, M. T., & Wallace, W. P. (1992). Pre-access processing of spoken non-words and subsequent false recognition of spoken words. Paper, 62nd meeting of the Rocky Mountain Psychological Association, Boise, ID

Stewart, M. T., & Knight, J. M. (1990). The effects of fatigue on tests of visual ability in patients with MS. Poster, 70th meeting of the Western Psychological Association, Los Angeles, CA

### **Invited Presentations**

Stewart, M. T. (2005). Photism Congruency and False Recognition in Grapheme-Color Synesthetes. Invited presentation, Department of Cognitive and Neural Systems, University of Arizona, Tucson, AZ

Stewart, M. T. (2004). Synesthetic photisms and false recognitions: The quest for a new methodology. Invited talk, Psychology Department Colloquium Series, Reed College, Portland, OR

Stewart, M. T. (2004). Synesthesia: The strangest thing. Presenter, Willamette University Institute for Continued Learning.

Stewart, M. T. (2004). Observation of metaphoric reference through an auditory moving window. Presenter, Linguistics Lecture Series, Hatfield Room, Willamette University.

Stewart, M. T. (2003). Investigations into the perceptual reality of synesthetic photisms. Invited talk, Psychology Department Colloquium Series, Lewis & Clark College, Portland, OR

Stewart, M. T. (2003). On the simultaneity of being blue and a baked potato: A psychologist investigates synesthesia. Presenter, Mini-University Session talk, Willamette University Parents Weekend.

Stewart, M. T. (2003). What color is Willamette? A psychologist investigates synesthesia. Presentation, Faculty Research Colloquium, Willamette University.

Stewart, M. T. (2003). What's new in information technology at Willamette?

Stewart, M. T. (2001). Synesthesia: The strangest thing. Presentation, Faculty Research Colloquia, Willamette University.

Stewart, M. T. (2000). "Why I encourage technology use in the classroom." Presentation made to Board of Trustees, Willamette University, Salem, OR

Stewart, M. T. (2000). On the real-time comprehension of metaphor. Guest lecture, upper division course in Metaphor offered by Rhetoric and Media Studies department, Willamette University, Salem, OR

Stewart, M. T. (1999). What can the eye tell us about how the brain organizes its information? Parents Weekend presentation, Willamette University, Salem, OR

Stewart, M. T. (1997). "Excuse me, did you just say 'new display' or 'nudists play'?" Colloquium, Department of Psychology, California State University, Northridge, CA

Stewart, M. T. (1996). Examination of cohort activation during spoken word recognition: Evidence from recognition memory. Colloquium, Language and Cognitive Processes Series, Center for Human Information Processing, University of California, San Diego.

Stewart, M. T. (1995). Monitoring implicit activation of spoken words: are onsets or offsets more important? Colloquium, Department of Psychology, California State University, Chico, CA

Stewart, M. T. (1994). Pre-lexical activation of spoken words as seen through a

recognition memory task. Graduate Student Colloquium Series, University of Nevada, Reno

Stewart, M. T. (1992). Recognition of spoken stimuli: pre or post recognition processing? Graduate Student Colloquium Series, University of Nevada, Reno.

### **Funded Proposals**

Stavrianeas, S. & Stewart, M. T. Hewlett Foundation Grant for development of team-taught, IDS UNW MOI course, *Fundamentals of Neuroscience*. \$4000 award, begun Sp04; Completed F04.

Stewart, M. T. & Linn, A. Northwest Academic Computing Consortium (NWACC), \$5,000 Digital Materials Development Award, Spring 2000. Completed Sp01.

Stewart, M. T. Hewlett Foundation Grant for advanced training in use of multimedia development software at PSU. \$1050 tuition award, Spring 2000. Completed Sp01

Stewart, M. T. Hewlett Foundation Grant for the Implementation of General Education, Introduction to Cognitive Science course, \$600 summer stipend, Spring 1999. Completed Su99.

### **Senior Theses Chaired**

F03 – Sp04:

Foster, Nathan (empirical/honors, bilingual memory)

Schroeder, Abrie (empirical/honors, synesthetic photisms)

Scolari, Miranda (empirical/honors, synesthesia & memory)

F02 – Sp03:

Snodgrass, Matthew (honors, visual prosthetics)

F01 – Sp02:

Kennedy, Josh (honors, visual processes)

Asbury, Jenny. (honors, pheromonal regulation)

F00 – Sp01:

Wade, Christine (empirical: speech disfluencies)

Tuck, Lindsay (honors: Alzheimer's Disease)

Harrison, Travis (honors: taboo language)

F97 – F98:

Purvis, Theodore (SDSU: presentation rates in film)

### **Occasional Reviewer**

Journal of Psycholinguistic Research

Journal of Memory and Language  
Cortex (journal)  
International Thomson Publishing (stats texts)

### **Committee Work**

Faculty Resources Committee, F05  
Faculty Council, F02 – Sp04  
Academic Council/Positions Committee, F00 – Sp01  
Family Picnic Steering Committee, Sp01 – Sp04  
Benefits and Wellness Committee, F99 – Sp00  
President's Technology Assessment Steering Committee, F99 – Sp00  
WITS Executive Director Search Committee, Sp99  
University Committee for Technology Policy and Planning (UCTPP), F98

### **Computer/Other Skills**

UNIX, C++, PsyScope, Eprime, SoundEdit,  
DataDesk, SPSS, and UNIXstats  
Flash, Dreamweaver, Director

### **Membership in Professional Organizations**

Psychonomic Society

Western Psychological Association

American Synesthesia Association