

## VITA

Richard Lawrence Metzger  
(10-15-2008)

### Personal Information

Office: 350 Holt Hall  
Department of Psychology - #2803  
University of Tennessee at Chattanooga  
615 McCallie Avenue  
Chattanooga, TN 37403  
(423) 425-4262

Born: November 15, 1948; Mt. Pleasant, Iowa

### Education

Postdoctoral Research Associate, Lineberger Cancer Center,  
University of North Carolina Medical School, 2002-2003  
Postdoctoral Associate, Institute of Child Development,  
University of Minnesota, 1977-1978

Ph.D. University of North Dakota 1976 (Experimental Psychology - Cognition)

M.S. University of North Dakota 1971 (Psychology)

B.S. Muskingum College 1970 (Psychology)

### Professional Experience

#### *Academic Positions*

University of Tennessee - Chattanooga, Department of Psychology

*Professor of Psychology, 1990-present*

*Wheeler Center for Odor Research – Research Fellow, 2005 to 2008*

University of North Carolina, Breast Center, Sabbatical year (2002-2003)

School of Medicine and the Lineberger Comprehensive Cancer Center

*Research Assistant to Dr. Lisa Carey*

University of Tennessee - Chattanooga, Department of Psychology  
Student Government Association Outstanding Professor - 2001  
*Head of the Department*, 1990-1999  
*Research Associate*, Wheeler Center for Odor Research, 1992-1997

Mercer University, Department of Psychology  
*Kilpatrick Associate Professor of Psychology and Chair of the Department*,  
1983-1990  
Spencer B. King Distinguished Professor, 1988

The Pennsylvania State University, Department of Psychology  
*Assistant Professor*, 1981-1983

Sangamon State University, Psychology Program  
*Assistant Professor* , 1978-1981  
*Chair (Coordinator)*, 1980-1981

University of Minnesota, Institute of Child Development  
*Lecturer* , 1977-1978

University of North Dakota, Department of Psychology  
*Assistant Professor*, 1976-1977  
*Instructor*, 1974-1975

*Teaching Experience*

Undergraduate Courses

Research Methods	Statistics
Test and Measurement	Cognitive Psychology
General Experimental	Child Psychology
Advanced Cognition	Adolescent Psychology
Sensation and Perception	Life-Span Development
History and Systems	Language Acquisition
Introductory	Psychology of Art
Personality	Educational Psychology
Social Psychology	Mental Health in the Schools
Infancy	Psychology of Aging

Graduate Courses:

Experimental Psycho-oncology	Research Design
Medical Research Methods	Advanced Research Design
Health Research Methods	Critical Inquiry in Physical Rehabilitation
Seminar in Cognition	Seminar in the Teaching of Psychology
Cognitive Development	Perceptual Development
Applied Cognitive Development	Advanced Developmental
Phenomenology of Perception	Modern Memory Theory
Psychological Foundations of Education	

University & Departmental Committees*University of Tennessee at Chattanooga*

College Council  
 Teacher Education Reform  
 U.T. Research Cooperation Advisory Board  
 Provost Search Committee  
 Task Force on Sexual Harassment

*Mercer University*

Executive Committee, College of Liberal Arts (1 year)  
 Curriculum Committee, College of Liberal Arts (3 years)  
 General Education Advisory Board (3 years)  
 Learning Skills Center Advisory Board (1 year)  
 University Institutional Review Board (2 years)  
 University Health Services Committee (2 years)  
 President's Task Force on Graduate Counseling Program  
 Mercer Engineering Research Corporation Advisory Board

*Pennsylvania State University*

Undergraduate Honors Committee (Psychology Department)

*Sangamon State University*

Faculty Recruitment Committee  
 Curriculum Committee (3 years)  
 Search Committee, Dean of Social Sciences  
 University Research Cabinet (2 years)  
 Faculty Senate (1 year)

*University of North Dakota*

Graduate Admissions Committee  
 Departmental Research Committee

## Related Experience

Catholic Social Service (Diocese of Columbus), Zanesville (Ohio)  
1971-1973, Social Caseworker/Caseworker Supervisor

## Research Activities

### *Publications*

Metzger, R. L., Warren, A. R., Shelton, J. T., Price, J., Reed, A. & Williams, D. (in press). Do children “D/R-M” like adults? False memory production in children. *Developmental Psychology*.

Shelton, J. A., Metzger, R. L. & Elliott, E. (2007). A group-administered lag task as a measure of working memory. *Behavioral Research Method*, 39 (3), 482–493

Ross, D. F., Marsil, D. F., Benton, T. R., Hoffman, R., Warren, A. R., Lindsay, R. C. L., Metzger, R. (2006). Children's Susceptibility to Misidentifying a Familiar Bystander From a Lineup: When Younger is Better. *Law and Human Behavior*, 30(3), 249-257.

Ross, D. F., Benton, T. R., McDonnell, S., Metzger, R., & Silver, C.. (2006). When accurate and inaccurate eyewitnesses look the same: A limitation of the ‘pop-out’ effect and the 10 – 12 second rule. *Applied Cognitive Psychology*, 21(5), 677-690.

Carey, L. A., Metzger, R. L., Dees E. C. , Collichio, F., Sartor, C. I., Ollila, D. W., Klauber-DeMore, N., Halle, J., Sawyer, L., Moore, D. T., Graham, M. L. (2005) AJCC TNM stage after neoadjuvant chemotherapy predicts breast cancer outcome. *Journal of the National Cancer Institute*, 97(15), 1137-1142.

Carey LA, Ewend MG, Metzger R, Sawyer L, Dees EC, Sartor CI, Moore DT, Graham MG. (2004) Central nervous system metastases in women after multimodality therapy for high risk breast cancer. *Breast Cancer Research and Treatment*, 88 (3), 273-280.

Klauber-DeMore, N., Kuzmiak, C., Rager, E., Ogunride, O. B., Ollila, D., Calvo, B., Kim, H. J., Meyer, A., Dees, E. C., Graham, M., Collichio, F., Sartor, C., Metzger, R., Carey, L. A. (2004) High resolution axillary ultrasound is a poor prognostic test for determining pathologic lymph node status in patients undergoing neoadjuvant chemotherapy for locally advanced breast cancer. *American Journal of Surgery*, 188 (4), 386-389.

Brown, M. & Metzger, R.M. (1993). The effect of worry on directed forgetting. *Modern Psychological Studies*.

Meyer, T.J., Miller, M.L., Metzger, R.L. & Borkovec, T.D. (1990). Development and validation of the Penn State Worry Questionnaire. *Behavior Research and Therapy*, 28, 487-495.

Metzger, R.L., Miller, M., Cohen, M., Sofka, M. & Borkovec, T. (1990). Worry changes decision making: The effect of negative thoughts on cognitive processing. *Journal of Clinical Psychology*, 46, 78-88.

Borkovec, T.D., Metzger, R.L., & Pruzinsky, T. (1986) . Self theory, worry and symptoms of anxiety. In L.M. Hartman & K.R. Blankenship (Eds.), *Perception of Self in Emotional Disorders and Psychotherapy*, New York: Plenum.

Metzger, R.L. (1985). Microcomputers in the small college psychology department. *Micropsych Network*, 2, 6-8.

Metzger, R.L. & Pambianco, L. (1985) .The relationship between reading level and retention in average and supra readers. *Contemporary Educational Psychology*, 10, 52-57.

Metzger, R.L. & Perlmutter, M.A. (1984) . Specific and global processing by preschool children and college adults. *Bulletin of the Psychonomic Society*, 333-336.

Metzger, R.L. & Werner, D.B. (1984) . Visual training and reading disabilities: A review. *Pediatrics*, 73, 824-829.

Metzger, R.L. & Antes, J.A. (1983) . The nature of processing early in picture perception. *Psychological Research*, 45, 267 -274.

Antes, J.R., Penland J. & Metzger, R.L. (1981). Context effects on the recognition of usual and unusual objects. *Psychological Research*, 43, 277-292.

Perlmutter, M.A., Metzger, R.L., Nezworski, T. & Miller, K. (1980). Spatial and temporal memory in 20 and 60 year olds. *Journal of Gerontology*, 36, 59-65.

Perlmutter, M.A., Metzger, R.L., Nezworski, T. & Miller, K. (1980). Memory of historical events. *Experimental Aging Research*, 6, 47-60.

Metzger, R.L., Boschee, P.F., Haugen, T. & Schnobrich, B.L. (1979). The classroom as learning context. *Journal of Educational Psychology*, 71, 440-442.

Esper, J.R., Cooney, L.L. & Metzger, R.L. (1979). *An Overview of Autism: Readings and Sources*. Springfield, IL: Illinois Society for Autistic Children.

Antes, J.R., Singass, P. & Metzger, R.L. (1978). Components of pictorial informativeness. *Perceptual and Motor Skills*, 47, 549-564.

Metzger, R.L. & Antes, J.A. (1976). Sex and coding strategy effects on the reaction time to hemispheric probes. *Memory & Cognition*. 4, 167-171.

Metzger, R.L. (1974). A reliability and validity study of the State-Trait Anxiety Inventory. *Journal of Clinical Psychology, 32*, 276-278.

### *Papers Presented*

Lane, C. M., Metzger, R. L., Gourley, A. Bhakta, M. Markin, A. D. & McAllon, C. (2007). Using cognitive screening to predict informed consent understanding in children. Paper presented at the Society for Research in Child Development.

Lane, C. M., Metzger, R. L., Gourley, A. Bhakta, M. Markin, A. D. & McAllon, C. (2007). Using cognitive screening to predict informed consent understanding in children. Paper presented at the Southeastern Psychological Association Annual Meeting, New Orleans, LA.

Shapiro, J., Hidalgo-Garcia, R., Metzger, R. L., Pegasus, D. & Mundis, A. (2007). Using backward priming to monitor attention allocation. Paper presented at the Southeastern Psychological Association Annual Meeting, New Orleans, LA.

Cranley, N. M., Mott, C. E. & Metzger, R. L. (2007). Self-concept priming affects performance. Paper presented at the Southeastern Psychological Association Annual Meeting, New Orleans, LA.

Cranley, N. M., Mott, C. E. & Metzger, R. L. (2006). Self-concept priming affects performance. Paper presented at the Tennessee Psychological Association Annual Meeting, Nashville, TN.

Morgan, A., Metzger R.L., Burns R.P., Shapiro J.L., Lewis, P. (2006) Olfactory and memory changes in post-treatment breast cancer survivors. Paper presented at the Southeastern Psychological Association, Atlanta.

Morgan, A., Metzger R.L., Burns R.P., Shapiro J.L. , Lewis, P. (2005) Olfactory and memory changes in post-treatment breast cancer survivors. Paper presented at the International Congress on Psycho-Oncology, Venice, IT.

Shapiro, J. L., Metzger, R. L. & Denver, J. (2005). Theoretical accounts of cognitive changes in breast cancer. Paper presented at the International Congress on Psycho-Oncology, Venice, IT.

Logan, J., Shelton, J. Warren, A. & Metzger, R. (2005). False memory development: When, how, and why? Paper presented at the meeting of the Society for Applied Research in Memory and Cognition, Wellington, New Zealand

Denver, J., Metzger, R. L & Shapiro, J. L. (2005) Predictors of health changes. Paper presented at the meeting of the Society for Applied Research in Memory and Cognition, Wellington, New Zealand

Ross, D.F., Benton, T., Shelton, J., Metzger, R., Smith, Z., Pittman, S., Headrick, B., McDonnell, S., and Silver. C. (2005). Bystander misidentification

across the lifespan. Paper presented at the meeting of the Society for Applied Research in Memory and Cognition, Wellington, New Zealand

Shelton, J.A., Elliott, E. & Metzger, R.L. (2004), Attentional shift following cell phone distraction. Paper presented at the Annual Meeting of the Psychonomic Society, Minneapolis.

Ollila DW, Neuman H, Dees EC, Sartor C, Metzger R, & Carey LA (2003). Lymphatic mapping and sentinel lymphadenectomy prior to neoadjuvant chemotherapy in locally advanced breast cancer patients. San Antonio Breast Cancer Symposium.

Warren, A.R., Reed, A.W., Mangan, B.R. & Metzger, R.L. (May, 2003). Growth of false and accurate memory during the school years. American Psychological Society Annual Meeting, Atlanta.

Talley, J.A., Metzger, R.L., Warren, A.R. & Biderman, M.D. (May, 2003). The lag task: A measure of working memory. American Psychological Society Annual Meeting, Atlanta.

Metzger, R., Graham, M., Dees, E.C., Amamoo, A., Collichion, F, Sartor, C. Klauber-Demore, N., Ollila, D., Carey, L.A. (May, 2003). Pathological staging using the new AJCC TNM staging system after neoadjuvant chemotherapy proves excellent long-term prognostic discrimination. American Society of Clinical Oncology, Chicago.

Carey, L.A., Dees, E.C., Metzger, R., Amamoo, A., Cance, W., Rosenman, J. Adams, K., & Graham, M. (May, 2003). Natural history of subclinical cardiotoxicity after dose-dense anthracycline-based multimodal therapy for high risk breast cancer. American Society of Clinical Oncology, Chicago.

Reed, A., Warren, A. & Metzger, RL. (2003, March) Developmental changes in false memory from children to adults. Society for Research in Child Development, Tampa, FL.

Talley, J. & Metzger, RL (2003, March), Operation span is affected by lag and load. Southeastern Psychological Association, New Orleans.

Carey LA, Dees EC, Metzger, RL, Moore DT, Dressler L, Cowan D, Harden A, Collichio F, Ollila D, Sartor C, Tsui A, Graham M. (2002). Response to Trastuzumab (Herceptin) Given with Paclitaxel (Taxol, T) Immediately Following 4AC as Initial Therapy for Primary Breast Cancer (BrCa). San Antonio Breast Cancer Symposium, December, 2002.

Hunter, S. & Metzger, R. L. (2002, April). The development of a creativity instrument for organizations. Society for Industrial and Organizational Psychology, Toronto.

Read, A., W., Metzger, R. L., Smith, R., Ross, D. & Kahn, L. (2002, March). Are accurate eyewitness decisions automatic? A reinterpretation of Dunning and

Stern (1994) . Paper presented at the Southeastern Psychological Association. Orlando, FL.

Read, A., W., Metzger, R. L., Smith, R., & Ross, D. (2002, March). Are accurate eyewitness decisions automatic? A reinterpretation of Dunning and Stern (1994) . Paper presented at the American Psychology and Law Society, Austin, TX.

Price, J., Metzger, R.L., Williams, D., Phelps, N. & Phelps, A. (2001, April). False memories in children and adults. Paper presented at the Society for Research in Child Development, Minneapolis, MN.

Price, J. Metzger, R.L., Warren, A. Arnold, V. (2001, March) False memories and susceptibility are not related. Paper presented at the Southeastern Psychological Association. Atlanta, GA.

Price, J., Metzger, R.L., Williams, D., Phelps, N. & Phelps, A. (2001, February). Do children D/R-M like adults? False memories in children and adults. Paper presented at the North Carolina Cognition Group, Greensboro, NC.

Williams, M., Vess, D, Ridge, N., and Metzger, R.L. (2000, August) Parenting plan panel. Tennessee Juvenile Court Services Association, Chattanooga, TN.

Hatmaker, E. & Metzger, R. L. (1999, March). Olfactory information improves face recognition. . Paper presented at the Southeastern Psychological Association, Atlanta, GA.

Payne, T. & Metzger, R. L. (1998, March) The effects of olfactory imaging on odor recognition. Paper presented at Toward a Science of Consciousness, Tuscon, AZ,

Payne, T. & Metzger, R. L. (1998, April) The effects of olfactory imaging on odor recognition. Paper presented at the Southeastern Psychological Association, Savannah, GA.

Metzger, R. L. & Payne, T. (1997, April) The improvement in odor memory is a direct, but not an indirect, memory effect. Paper presented at the Southeastern Psychological Association, Atlanta, GA.

Day, J. & Metzger, R. L. (1995, April) Odors significantly improve the retrievability of labels and words. Paper presented at the Association of Chemoreceptor Sciences, Sarasota.

Bates, J., Metzger, R. L. & Hamilton, R. (1995, March) Gender and age effects on olfactory recognition memory. Paper presented at the Southeastern Psychological Association, Savannah, GA.

Metzger, R. L., Wilson, M. C., Roddy, E. A. & Schild, V. J. (1994, April) Depression affects olfactory recognition. Paper presented at the Association of Chemoreceptor Sciences, Sarasota.

Wilson, M. C., Metzger, R. L., Schild, V. J. & Roddy, E. A. (1994, April) Odor memory shows directed forgetting effects. Paper presented at the Association of Chemoreceptor Sciences, Sarasota.

Nagle, G. S. & Metzger, R. L. (1994, March) Teaching a course in professional psychology to undergraduate psychology majors. Symposium presented at the Southeastern Psychological Association, New Orleans.

Wilson, M. C. , Metzger, R. L., Roddy, E. A. & Schild, V. J. Directed forgetting of odors (1994, March). Paper presented at the Southeastern Psychological Association, New Orleans.

Wilson, M. C., Roddy, E. A., Metzger, R. L. & Schild, V. J. (1993, November). Depression affects olfaction. Paper presented at the Tennessee Psychological Association, Nashville.

Bilbrey, C. and Metzger, R.L. (1993, March). A new approach to directed forgetting. Paper presented at Southeastern Psychological Association, Atlanta.

Brown, M. and Metzger, R.L. (1993, March). The effect of worry on directed forgetting. Paper presented at Southeastern Psychological Association, Atlanta.

Henry, L.A. and Metzger, R. L. (1992, March) Remember to forget: An examination of directed forgetting. Paper presented at Southeastern Psychological Association, Knoxville.

Metzger, R.L., Melvin, K., Ross, M.G., Porter, T., Paterson, T. and Smith, J. (1991, March) Is worrying a verbal activity? Paper presented at Southeastern Psychological Association, New Orleans.

Montalvo, A. , Metzger, R.L., and Henry, L.A. (1991, March) How semantic is perceptual priming? Paper presented at Southeastern Psychological Association, New Orleans.

Smailes, H., Metzger, R.L. and Melvin, K. (1990, March). The effect of worrying on the processing of high and low imagery material. Paper presented at the Southeastern Psychological Association, Atlanta, GA.

Montalvo, A., Metzger, R.L. and Melendez, B. (1990, March). What's the difference? A comparison of focal thinking and Perceptual Priming. Paper presented at the Southeastern Psychological Association, Atlanta, GA.

Montalvo, A. Metzger, R.L. and Noll, J.A. (1989, November). The network structure of worry in memory. Paper presented at the North Carolina Cognition Group, Davidson, NC.

Noll, J. A. and Metzger, R.L. (1989, November). The effects of gender on information processing. Paper presented at the North Carolina Cognition Group, Davidson, NC.

Noll, J.A., Metzger, R.L. & LaGuardia, R. (1989, March). A taxonomy of worry: Topical and attribute characteristics. Paper presented at the Southeastern Psychological Association, Washington, DC.

Carter, W., Murphy, K. & Metzger, R.L. (1988, March). White bears and worry: In search of the rebound effect. Paper presented at Southeastern Psychological Association, New Orleans, LA.

Noll, J.A. Montalvo, A. & Metzger, R.L. (1988, March). Self-generated thinking results in semantic facilitation. Paper presented at Southeastern Psychological Association, New Orleans, LA.

Campbell, E., Metzger, R.L., Goodwin, P., & Carter, W. (1987, March). Induced and natural moods yield equivalent self-reference effects. Paper presented at Southeastern Psychological Association, Atlanta, GA.

Zettler, L., Metzger, R.L., Bond, S., & Ballard, R. (1987, March). The recall of affective material is mood congruent not state dependent. Paper presented at Southeastern Psychological Association, Atlanta, GA.

Metzger, R.L., Smith, G., Campbell, E., Zettler, L., & Carter W. (1986, March). Mood related recall: State not personal attribution affects performance. Paper presented at Southeastern Psychological Association, Orlando, FL.

Wright, J.C., Metzger, R.L., Harris, J., & Moss, S. (1986, March). Recognition of visual features predictive of dog bites in animal control officers. Paper presented at Southeastern Psychological Association, Orlando, FL.

Wright, J.C. Kimmerling, K., Moss, S., & Metzger, R.L. (1985, June). The recognition of visual signals predictive of dog bites: Developmental and gender-related differences in humans. Invited paper. The Animal Behavior Society, Raleigh, NC.

Mayo, S., & Metzger, R.L. (1985, March). Worry is not related to controllability. Paper presented at the Southeastern Psychological Association, Atlanta, GA.

Midkiff, D., Jenkins, B., & Metzger, R.L. (1985, April). Some relationships of writing and learning styles: A workshop for teachers. Paper presented at the Fourteenth Annual Conference on Teaching the English Language Arts, Athens, GA.

Tolleson, E.K., & Metzger, R.L. (1985, March). Worry does not effect automatic processing in memory. Paper presented at the Southeastern Psychological Association, Atlanta, GA.

Wright, J.C., Kimmerling, K., Moss, S., & Metzger, R. (1985, March). Recognition of visual signals predictive of dog bites in children. Paper presented at the Southeastern Psychological Association, Atlanta, GA.

Metzger, R.L., Miller, M., Sofka, M. & Cohen, M. (1984, March). Evidence of a relationship between ego-resiliency and assimilation and accommodation. Paper presented at the Southeastern Psychological Association, New Orleans, LA.

Metzger, R.L., Miller, M., Sofka, M., Cohen, M. & Pennock, M. (1983, December). Information processing and worrying. Paper presented at the AABT, Washington (DC).

Metzger, R.L. & Werner, D. (1983, September). Visual training and reading disabilities. Paper presented at the Pennsylvania Academy of Ophthalmology Annual Meeting, Hershey, PA.

Metzger, R.L., & Perlmutter, M.A. (1980, November). Age differences in the use of detail and background in picture recognition. Paper presented at the Psychonomic Society Meeting, St. Louis, MO.

Antes, J.R. & Metzger, R.L. (1978, May). The effect of context on the recognition and location of objects in pictures. Paper presented at the Midwestern Psychological Association, Chicago, IL.

Metzger, R.L. & Antes, J.R. (1976, May). Coding strategy effects on the reaction time to pictures and words. Paper presented at the Midwestern Psychological Association, Chicago, IL.

#### *Invited Presentations*

Getting started. Nuts and Bolts: A conference for medical residents. University of Tennessee College of Medicine, Chattanooga, TN, 2007

Do post-treatment cognitive deficits in breast cancer come from two mechanisms? Cognitive Consequences of Chemotherapy Symposium, Venice, IT, 2006.

Odor memory: The smell of success. Paper presented to the Psi Chi Chapter, Southern Adventist University, March, 1996.

Why can't you stop worrying. Paper presented to the University Colloquium Series sponsored by the Psi Chi Chapter, Augusta College, Augusta, GA., 1989.

Using research to teach thinking, writing, reading and speaking skills. Paper presented at the Conference on Teaching and Learning, Mercer University, 1988.

Worrying is a procedural memory problem. Paper presented at Mercer University - Atlanta, GA, 1987.

The cognitive basis of worry. Paper presented at the Florida State University, May, 1984.

Teaching other professionals to deal with mental deficiency. Paper presented at the American Association of Mental Deficiency Regional Meeting, Springfield (IL), November, 1980.

Cognitive development in the classroom: A workshop for college faculty. Paper presented at Findlay College, April, 1979.

Day care research: Limitations, conclusions, and directions. Paper presented at the Missouri Psychological Association, April, 1979.

Language development in autistic children. Paper presented at the American Association of Mental Deficiency Regional Meeting, March, 1979.

### Reports

Metzger, R.L. & Harris, J. (1987). Student performance evaluation. Macon, GA: Mercer University, Title III Grant Office.

Metzger, R.L. (1985). Retention analysis of entering students. Macon, GA: Mercer University.

Grants

Research Scholar, Wheeler Center for Odor Research, 2005-2008, \$75,000.

Research Scholar, Wheeler Center for Odor Research, 1992-1997, \$60,000.

Faculty Research Grant, University of Tennessee at Chattanooga, 1994-95, \$2,000.

Worry and Cognition Research Group. Mercer University Faculty Development Grants, 1983 to 1990. Total award, \$22,000

Memory and reading level in children and adolescents. Sangamon State University Competitive Awards Program, 1981. Total award, \$3000.

The cognitive representation of three-dimensional space. Sangamon State University Competitive Awards Program, 1980. Total award, \$2500.

Pre-employment training of "unemployable" persons: A demonstration project. Ohio Bureau of Rehabilitation Services, Bureau of Vocational Rehabilitation, 1972-1973. Total award, \$57,000.