

## Dr. Arlene Horne

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### CONTACT INFORMATION

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### PROFESSIONAL EDUCATION

Ph.D. 1990 Psychological Foundations [Emphasis in Research Methodology and Statistics]	University of New Mexico Albuquerque, New Mexico Doctoral Dissertation: <i>An Investigation of Status and Power in Attributional Processes as Related to Male Rape</i>
Outstanding Achievement Award for Academic Excellence: 1990	
M.A. 1982 Counseling Psychology	New Mexico Highlands University Las Vegas, New Mexico
M.S. 1981 Psychology	New Mexico Highlands University Las Vegas, New Mexico Master's Thesis: <i>Sex and Ethnic Differences in Perceptions of Domestic Violence</i>
B.S. 1978 Psychology	Campbell University Buies Creek, North Carolina
A.A. 1977 Social Science	Campbell University Buies Creek, North Carolina

### ADMINISTRATIVE EXPERIENCE

2012-2016 **Vice Provost for Research and Dean of Graduate Studies**, Texas A&M University  
Commerce, Commerce, TX.

2011-2012 **Associate Vice President for Research**, University of West Georgia, Carrollton, GA.

- 2009-2011 **Vice President for Research and Federal Relations**, Office of Sponsored Research, UT Tyler, Tyler, TX.
- 2005-2009 **Associate Vice President for Research and Federal Relations**, Office of Sponsored Research, UT Tyler, Tyler, TX.
- 2005-Present **Certified Research Administrator**, Research Administrators' Certification Council, Certification # 200510700.
- 1991-2005 **Director**, Psychobiology Laboratory, Discipline of Psychology, New Mexico Highlands University.
- 1999-2005 **Program Director**, NIH/MBRS Research Program, NMHU, Las Vegas, NM.
- 2003-2005 **Member**, New Mexico State EPSCoR Committee, an advisory body to the New Mexico Council of University Presidents, NSF's Experimental Program to Stimulate Competitive Research (EPSCoR).
- 2003-2005 **Executive Director**, Office of Research and Sponsored Programs, NMHU, Las Vegas, NM.
- 2003 **Extramural Associate**, (Jan-May, 2003) NIH residency training program for developing and administering research and sponsored programs offices at minority-serving higher education institutions, National Institute of Child Health and Human Development (NICHD), National Institutes of Health, Bethesda, MD.
- 2001-2003 **Liaison**, Biomedical Research Infrastructure Network (BRIN) grant, Funded by the NIH to New Mexico State University.
- 2000 **Chair**, Scientific Advisory Committee, Statewide Initiative, National Institutes of Health, Cooperative Biomedical Research Enhancement (COBRA) grant.

<b>TEACHING EXPERIENCE</b>
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- 2012-Present **Professor**, Experimental Psychology, Department of Psychology, Counseling and Special Education, Texas A&M University-Commerce, Commerce, TX.
- 2011-2012 **Professor**, Experimental Psychology, Department of Psychology, University of West Georgia, Carrollton, GA.
- 2005-2011 **Professor**, Experimental Psychology, Department of Psychology, University of Texas at Tyler, Tyler, Texas.
- 2001-2005 **Professor**, Discipline of Psychology, Department of Behavioral Sciences, New Mexico Highlands University, Las Vegas, New Mexico.
- 1996-2001 **Associate Professor**, Discipline of Psychology, Department of Behavioral Sciences, New Mexico Highlands University, Las Vegas, New Mexico.
- 1992-1996 **Assistant Professor**, Discipline of Psychology, School of Behavioral Sciences, New Mexico Highlands University, Las Vegas, New Mexico.

- 1991-1992 **Visiting Professor**, Discipline of Psychology, School of Behavioral Sciences, New Mexico Highlands University, Las Vegas, New Mexico.
- 1990-1991 **Visiting Professor**, Discipline of Psychology, School of Behavioral Sciences and School of Education, New Mexico Highlands University, Las Vegas, New Mexico. Taught courses in both schools on a temporary, part-time basis.
- 1984-1987 **Teaching Assistant**, University of New Mexico, Albuquerque, New Mexico: Taught laboratory sections of graduate statistical courses ranging from introductory statistics to multivariate analyses. Duties included preparation, exam make-up and grading, research project tutoring, counseling of students, and coordinated meetings with instructors.
- 1983-1985 **Consultant**, College of Education Statistics Laboratory, University of New Mexico, Albuquerque, New Mexico: Taught small group seminars on computer usage in word processing and statistical packages. Consultation to faculty and students on use of computer systems and statistical packages. Also aided in design and analysis of research projects and dissertations.

<b>COURSES TAUGHT</b>
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Undergraduate:

- Psy. 101: Introductory Psychology  
 Psy. 317: Learning: Basic Processes  
 Psy. 318: Experimental Techniques in Learning  
 Psy. 319: Memory and Cognitive Processes

Undergraduate (continued):

- Psy. 335: Psychology and the Law  
 Psy. 490: Independent Study  
 Psy. 499: Independent Research

Undergraduate/Graduate:

- Psy. 4/516: Motivation and Emotion  
 Psy. 4/522: Human Sexuality  
 Psy. 4/535: Sexual and Domestic Violence  
 Psy. 3/535: Computer Use in Behavioral Sciences  
 Psy. 4/561: Data Analysis and Statistics  
 Psy. 4/572: Cognitive Science

Graduate:

- Psy. 601: Behavioral Research Methods  
 Psy. 603: Advanced Learning  
 Psy. 605: Memory and Cognition  
 Gen. Ed. 610: Research Interpretation  
 Psy. 630: Advanced Agency Research  
 Psy. 634: Practicum  
 Gen. Ed. 641: Advanced Educational Psychology  
 Psy. 690: Independent Study

Psy. 691: Colloquium: Teaching of Psychology  
 Psy. 692: Independent Research  
 Psy. 698: Field Experience  
 Psy. 699: Thesis

<b>GRANT ACTIVITY</b>
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**Administrative Director**, UWG Institutional STEM Excellence (“UWISE”), University of West Georgia, University System of Georgia Board of Regents’ STEM Initiative, FY 2012: \$344,058; FY 2013: \$340K.

**Administrative Director**, UTeach, University of West Georgia, Georgia Governor’s Office of Student Achievement, \$1.4M, September 2011 – August 2016.

**Administrative Director**, Georgia Girls Collaborative STEM Project, University of West Georgia, National Science Foundation, \$16K, April 2012 – March 2013.

**Principal Investigator**, (ADVANCE), Institutional Transformation Catalyst (IT-Catalyst), University of West Georgia, National Science Foundation, \$199,846.

**Administrative Director**, Robert Noyce Teacher Scholarship Program, University of West Georgia, National Science Foundation, \$1.2M.

**Administrative Director**, Upward Bound, University of West Georgia, US Department of Education, \$249,905.

**Principal Investigator**, Texas Cyber Security Research and Training Institute (TxCSRT), University of Texas at Tyler, Department of Justice, FY 2011: \$529K.

**Program Director**, Future Semiconductor Commercialization (FUSION), University of Texas at Tyler through University of Texas at Dallas, Texas Emerging Technology Fund, \$100k, August 2010 – August 2014.

**Program Director**, Center for Energy Storage Research, University of Texas at Tyler through University of Texas at Dallas, Department of Energy, FY 2011: \$200,000.

**Principal Investigator**, Texas Allergy, Indoor Environment, and Energy Institute (TxAIRE), University of Texas at Tyler, Texas Emerging Technology Fund, Technology Commercialization Incentive Fund, \$187,500, June 2008 – May 2011.

**Administrative Director**, Keeping America Competitive: Consortium for STEM Preparation for Engineering, University of Texas at Tyler, U.S. Department of Education, Fund for the Improvement of Postsecondary Education (FIPSE), FY 2008: \$143,449; FY 2010: \$300K.

**Administrative Director**, Texas Allergy, Indoor Environment, and Energy Institute (TxAIRE), University of Texas at Tyler, Texas Emerging Technology Fund, Research Superiority Award, \$3,750,000, June 2007 – May 2011.

**Administrative Director**, Texas Science, Technology, Engineering, and Math (T-STEM) Centers – East Texas, University of Texas at Tyler, Texas Education Agency, \$1,228,899, April 2007 – August 2008.

**Administrative Director**, Center for Organic Semiconductor Modeling and Simulation (COSMOS), University of Texas at Tyler, Department of Defense, Army Research Laboratory, FY 2007: \$1.0M; FY 2008: \$1.0M; FY 2009: \$1.2M; FY 2010: \$880K.

**Program Director**, Building the Biomedical Research Infrastructure at NMHU, New Mexico Highlands University, National Institutes of Health, National Center on Minority Health and Health Disparities, Research Infrastructure in Minority Institutions (RIMI) Program, 5P20MD001104, \$4,600,000, Sep. 2004 – Sep. 2009.

**Program Director**, MBRS SCORE at NMHU, New Mexico Highlands University, National Institutes of Health, Minority Biomedical Research Support, GM08066, \$2,816,592, Aug. 2000 - July 2004.

**Principal Investigator**, Age-dependent glucose effects on reactivated memories in rats across the life span, New Mexico Highlands University, National Institutes of Health, Minority Biomedical Research Support, GM08066, \$501,341, Aug. 2000 - July 2004.

**Program Director**, Scientific Electronic Journal Expansion Project, New Mexico Highlands University, National Institutes of Health, Minority Biomedical Research Support, GM08066, \$250,000, Sep. 1999 – Sep. 2001.

**Program Director**, MBRS at NMHU, New Mexico Highlands University, National Institutes of Health, Minority Biomedical Research Support, GM08066, \$1,886,430, Aug. 1996 - July 2000.

**Principal Investigator**, Glucose modulation of a reactivated memory in the developing rat, New Mexico Highlands University, National Institutes of Health, Minority Biomedical Research Support, GM08066, \$248,735, Aug. 1996 - July 2000.

**Principal Investigator**, Age and dose-response effects of fructose on memory, New Mexico Highlands University, Faculty Research Fund, \$1,500.00, 1998.

**Principal Investigator**, Effects of glucose on newly acquired memories in rats, New Mexico Highlands University, Faculty Research Fund, \$1,500.00, 1997.

**Principal Investigator**, Glucose memory modulation with added control groups in rats, New Mexico Highlands University, Faculty Research Fund, \$1,500.00, 1996.

**Principal Investigator**, Blood glucose levels as a function of memory modulation and reactivation, New Mexico Highlands University, Faculty Research Fund, \$1,500.00, 1995.

**Principal Investigator**, Time dependent effects of fructose on recently reactivated memories in rats, New Mexico Highlands University, Faculty Research Fund, \$1,969.00, 1994.

**Principal Investigator**, Modulation of recently reactivated memories in rats, New Mexico Highlands University, Faculty Research Fund, \$1,000.00, 1993.

**Principal Investigator**, Fructose modulation of recently acquired and reactivated memories in rats, New Mexico Highlands University, Faculty Research Fund, \$1,000.00, 1992.

#### SELECTED PEER-REVIEWED PUBLICATIONS

Rodriguez, W.A., **Horne, C.A.**, Haas, B.H., & Padilla, J.L. (2000). Effects of reactivation context on glucose modulation of reactivated memories. *Psychobiology*, 28, 525-531.

Rodriguez, W.A., **Horne, C.A.**, & Padilla, J.L. (2000). Effects of glucose and fructose on recently reactivated and recently acquired memories. *Progress in Neuro-Psychopharmacology and Biological Psychiatry*, 25, 112-123.

**Horne, C.A.**, Rodriguez, W.A., Wright, T.P., & Padilla, J.L. (1997). Time-dependent effects of fructose on reactivated memory. *Progress in Neuro-Psychopharmacology & Biological Psychiatry*, 21(4), 649-658.

Rodriguez, W.A., **Horne, C.A.**, Mondragon, A., & Phelps, D. (1994). Comparable dose-response functions for the effects of glucose and fructose on memory. *Behavioral and Neural Biology*, *61*, 162-169.

Ayers-Nachamkin, B., Cann, C.H., Reed, R., & **Horne, A.** (1982). Sex and ethnic differences in the use of power. *Journal of Applied Psychology*, *67*(4), 464-471.

#### PUBLICATIONS IN POPULAR PRESS

**Horne, C.A.**, Rodriguez, W.A., & Maes, L.I. (October, 1997). Effects of glucose and age on reactivated memories. Lay Summary Press Release, Society for Neuroscience Press Book.

Rodriguez, W.A., **Horne, C.A.**, Padilla, J.L., & Jones, S.C. (December, 1996). The ability of glucose to modulate a reactivated memory depends on the age of the original memory. *Psychology Today*, *20*.

#### PUBLISHED ABSTRACTS

**Horne, C.A.**, & Rodriguez, W.A. (1999). Effects of glucose and multiple reactivation episodes on memory across the life span. *Society for Neuroscience Abstracts*, *25*, 1176.

**Horne, C.A.**, & Rodriguez, W.A. (1998). Age-related dose-dependent effects of glucose on reactivated memories. *Society for Neuroscience Abstracts*, *24*, 689.

**Horne, C.A.**, Rodriguez, W.A., & Maes, L.I. (1997). Effects of glucose and age on reactivated memories. *Society for Neuroscience Abstracts*, *23*, 2127.

Rodriguez, W.A., **Horne, C.A.**, & Rodriguez, S.B. (1997). Effects of glucose, reactivation treatment, and injection on memory. *Society for Neuroscience Abstracts*, *23*, 2127.

Rodriguez, W.A., **Horne, C.A.**, & Padilla, J.L. (1995). Context-dependent effects of glucose and time- dependent effects of fructose on the modulation of a reactivated memory. *Society for Neuroscience Abstracts*, *21*(2), 950.

Rodriguez, W.A., **Horne, C.A.**, Mondragon, A., & Phelps, D. (1993). Comparable modulation of recently acquired memories by glucose and fructose. *Society for Neuroscience Abstracts*, *19*(2), 1235.

#### SCIENTIFIC PRESENTATIONS

Worthington, D.L.M., Sanchez, L.D., **Horne, C.A.**, Cann, C.H., & Rodriguez, W.A. (April, 1999). Age-related dose-response effects of fructose on reactivated memories. Annual Meeting of the Rocky Mountain Psychological Association, Ft. Collins, CO.

Worthington, D.L.M., **Horne, C.A.**, & Rodriguez, W.A. (November, 1999). Effects of glucose and multiple reactivation episodes on memory across the life span. Annual Meeting of the National Minority Research Symposium, Phoenix, AZ.

**Horne, C.A.**, & Rodriguez, W.A. (October, 1999). Effects of glucose and multiple reactivation episodes on memory across the life span. Annual Meeting of the Society for Neuroscience, Miami Beach, FL.

Castillo, A.R., **Horne, C.A.**, Cann, C.H., & Rodriguez, W.A. (April, 1998). Dose-response effects of glucose and age on memory. Joint Convention of the Rocky Mountain Psychological Association and the Western Psychological Association, Albuquerque, NM.

**Horne, C.A.**, & Rodriguez, W.A. (November, 1998). Age-related dose-dependent effects of glucose on reactivated memories. Annual Meeting of the Society for Neuroscience, Los Angeles, CA.

Soos, H.A., Niemi, J.D., Ortiz, C.K., **Horne, C.A.**, & Rodriguez, W.A. (September, 1998). Age and dose-response effects of fructose on reactivated memory. Annual Meeting of the National Minority Research Symposium, New York, NY.

Wilkes, Y.D., **Horne, C.A.**, Cann, C.H., Padilla, J.L., & Rodriguez, W.A. (April, 1997). Age-dependent effects of glucose on reactivated memories. Annual Meeting of the Rocky Mountain Psychological Association, Reno NV.

Castillo, A.R., Padilla, J.L., Maes, L.I., **Horne, C.A.**, & Rodriguez, W.A. (October, 1997). Effects of glucose, reactivation, and age on memory. Annual Meeting of the National Minority Research Symposium, New Orleans, LA.

**Horne, C.A.**, Rodriguez, W.A., & Maes, L.I. (October, 1997). Effects of glucose and age on reactivated memories. Annual Meeting of the Society for Neuroscience, New Orleans, LA.

Rodriguez, W.A., **Horne, C.A.**, & Rodriguez, S.B. (October, 1997). Effects of glucose, reactivation treatment, and injection on memory. Annual Meeting of the Society for Neuroscience, New Orleans, LA.

Padilla, J.L., **Horne, C.A.**, Cann, C.H., & Rodriguez, W.A. (April, 1996). Effects of glucose and retention intervals on recently reactivated memories. Annual Meeting of the Western Psychological Association, San Jose, CA.

Rodriguez, W.A., **Horne, C.A.**, Padilla, J.L., & Jones, C. S. (June, 1996). Ability of glucose to modulate a reactivated memory depends on the age of the original memory. Annual Meeting of Psychological Science, San Francisco, CA.

**Horne, C.A.**, Padilla, J.L., & Rodriguez, W.A. (November, 1995). Context-dependent effects of glucose and time-dependent effects of fructose on the modulation of a reactivated memory. Annual Meeting of the Society for Neuroscience, San Diego, CA.

**Horne, C.A.**, Padilla, J.L., Haas, B.H., & Rodriguez, W.A. (April, 1995). Role of contextual cues and glucose in modulating old memories in rats. Annual Meeting of the Rocky Mountain Psychological Association, Boulder, CO.

**Horne, C.A.**, Wright, T.P., Padilla, J.L., & Rodriguez, W.A. (April, 1995). Effects of fructose and reactivation interval on recently reactivated memories. Annual Meeting of the Rocky Mountain Psychological Association, Boulder, CO.

**Horne, C.A.** (March, 1994). Memory modulation in rats. School of Science and Engineering Colloquium Series, New Mexico Highlands University, Las Vegas, NM.

Rodriguez, W.A., **Horne, C.A.**, & Mondragon, A. (April, 1994). Effects of glucose and fructose on recently acquired and reactivated memories in rats. Annual Meeting of the Rocky Mountain Psychological Association, Las Vegas, NV.

