

DARRELL M. HULL

Assistant Professor
 Research, Measurement & Statistics
 University of North Texas

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AREA OF EXPERTISE

Methodological: Applied Measurement/Psychometrics and Field Trials/Evaluation
 Substantive: Individual differences in Career and Technical Education, and Positive Youth Development in Caribbean contexts.

EDUCATION**Degrees**

<u>Year</u>	<u>Degree</u>	<u>Major</u>	<u>Institution</u>
2004	Ph.D.	Educational Psychology	Baylor University
1993	M.B.A.	Business Administration	Baylor University
1990	B.S.	Business Administration	University of Texas at Dallas
1986	A.A.S.	Laser Electro-Optics	Texas State Technical College

Professional Training

2009	June 8-12	Longitudinal Growth Modeling	University of Kansas
2009	June 1-5	Structural Equation Modeling	University of Kansas
2009	May 26-29	Introduction to Bayesian Statistics	University of Texas at Austin
2009	May 26-29	Multiple Regression	University of Texas at Austin
2008	October 9	Missing Data	Baylor University
2008	March 23-24	Multivariate Statistics	AERA – New York
2008	March 25	Latent class models, Mixture Rasch models, and Diagnostic Mixture models	AERA – New York
2008	February 21	Hierarchical Linear Modeling	University of North Texas
2007	August-Dec	Multiple Regression	University of North Texas
2007	June 4-8	Item Response Theory	University of Kansas

CURRENT PROFESSIONAL AFFILIATIONS

Association for Psychological Science
International Society for the Study of Individual Differences
International Society for Intelligence Research
Southwest Educational Research Association

PROFESSIONAL EXPERIENCE

<u>Begin/End Year</u>	<u>Place of Employment</u>	<u>Rank / Job Title</u>
	University of North Texas	
	Denton, Texas	
	College of Education	
2007- present	Dept. of Educational Psychology	Assistant Professor
2011- present	Center for Interdisciplinary Research and Analysis	Director
	Baylor University	
	Waco, Texas	
	School of Education	
2005- 2007	Baylor Evaluation Services Center	Research Professor/Director
2002- 2007	Dept. of Educational Psychology	Adjunct Professor
	Center for Occupational Research and Development (CORD)	
	Waco, Texas	
1993 – 1997		Research Associate
1997 – 2002		Sr. Research Associate
2002 – 2005		Director
	Engineering Technology Institute	
	Waco, Texas	
1990 – 1991		Marketing Associate
1991 – 1993		Vice President
	Texas Instruments	
	Dallas, Texas	
1987 – 1988		Quality Control Technician
1988 – 1990		Research Technician
	The Brown School – Psychiatric Hospital	
	San Marcos, Texas	
1983 – 1984		Mental Health Worker

PROFESSIONAL INVOLVEMENT AND SERVICE

Consulting

- 2011 – Present Inter-American Development Bank – Evaluation specialist for the evaluation of a teacher training pilot.
Evaluator
Service Performed: Specify, supervise, analyze and report on a hierarchical (nested) cluster-randomized trial involving 24 schools (N > 4,300 students) in the Belize District to examine the effects of two teacher training pilot programs: one in mathematics, and one in child protective factors. Peer-reviewed presentations/manuscripts are specified as deliverables for this evaluation. (These data are available for approved doctoral students.)
International
- 2010 – Present Government of Jamaica/Ministry of Education – Chief Technical Advisor on implementation and impact evaluation of two programs: Career Advancement Program (CAP) and National Youth Service (NYS) non-residential Corps program. Both programs are supported under a loan from the Inter-American Development Bank.
Implementation and Evaluation Advisor
Service Performed: Design, direct, analyze and report on two separate quasi-experimental impact evaluations of these two programs, as well as suggest program components that build upon previously implemented programs of the MOE that I have evaluated. Specify research design, implement a propensity score matching procedure for both programs (N > 3,000 in the two treated groups), conduct psychometric, cross-sectional, and longitudinal analyses, and disseminate results in peer-reviewed presentations/manuscripts. (These data are available for approved doctoral students.)
International
- 2010 – Present Inter-American Development Bank – Design of a Multi-Modal Education Intervention in Belize City: Community Action for Public Safety (CAPS) Education Component
Loan Preparation
Service Performed: Review of existing literature on school-based interventions to reduce adolescent violence, evaluation of schools in Southside Belize City to accommodate a youth center designed to attract out-of-school youth, recommendations (including costing) for the project to implement the education component, and initial development of instrumentation to assess the intervention.
International

- 2010 – 2011 Mountain View College (Dallas County Community College District), College Cost Reduction and Access Act (CCRAA) grant for Science, Technology, Engineering and Mathematics (STEM) Infrastructure
Evaluator
Examine the extent to which Mountain View College (MVC) increased the college-going rate, retention rate, and subsequent economic and educational attainment of minority students served by MVC in STEM careers. Investigate student-centered instructional practice, STEM-focused curricular alignment, and linkage between educational institutions were to be established.
National
- 2009 – 2011 Targeted Technology in Texas (T-3) grant for Waco Independent School District
Evaluator
Program evaluation of a teacher training program in technology implementation to impact science achievement of students at all Waco ISD middle schools.
State
- 2008 – Present McLennan Community College – Title III: Developing an e-Campus to Improve Access, Retention and Success grant
Evaluator
Service Performed: Conduct a four-year evaluation of a U.S. Department of Education grant to determine the extent to which faculty have the skills to design curriculum and teach through Blackboard Enterprise; teach online; attain 5,000 enrollments online; access all student and academic support systems; implement seven degree programs online; decrease student attrition; and increase persistence to graduation.
National
- 2006 – Present National Center for Optics and Photonics (OPTEC)
Internal Evaluator
Service Performed: Conduct an eight-year evaluation of a National Science Foundation Center funded under the Advanced Technological Education program (NSF/DUE 0603275). Center funding is \$5M over two four-year periods and supports community/technical colleges nationwide in the delivery of technician education programs. Prepare technical reports for review by the external evaluator and coordinate all data collection/analyses.
National
- 2008 – 2009 Inter-American Development Bank – Impact Evaluation of the National Youth Service of Jamaica

Chief Project Coordinator

Service Performed: Thirteen-month randomized controlled trial longitudinal study of the Corps Program of the National Youth Service of Jamaica. The Corps program is an intensive adolescent development program for unattached youth. Multiple measures (personality, general cognitive ability, workplace skills, youth assets, self-efficacy, and a variety of background data) were collected on 1100 research subjects at four time periods. The research study was operated in collaboration with the NYS and faculty/staff of the Social Welfare Centre at the University of the West Indies. There are approximately 80 research assistants that were trained and deployed to collect data throughout the entire country of Jamaica during the summer of 2008. (These data are available for approved doctoral students.)

International

2006 – 2008

Baylor University - Scholarships for Academic Success

Evaluator

Service Performed: Conduct program evaluation for engineering scholarship program at Baylor University (NSF/DUE 0630943). This is a five-year \$498,756 grant that provides scholarships for students transitioning from high school and community colleges to Baylor's Engineering and Computer Science program. Examine staff-collected data on program outcomes and prepare annual technical reports for the PI and NSF.

National

2007 – 2008

Inter-American Development Bank

Preparation of the Jamaican Youth Development Program: Institutional Assessment of the National Youth Service

Service Performed: Approximately one month in-country assessing the capacity of the National Youth Service of Jamaica to deliver youth development programming for unattached youth, and preparation of a report for a \$10M(US) loan to support development of the program. Directly report findings to Bank staff, the Minister of Education and the Minister of Youth.

International

2007 – 2008

Project IVEHOL: Integrating Virtual Experiments and Hands-On Labs

Psychometrician

Service Performed: Item analyses of engineering education assessments for this NSF-sponsored project (NSF/EEC 0648161).

2006 – 2007

Inter-American Development Bank

De-linking of Teachers Salaries from the Public Service: A Retrospective Longitudinal Study of Nationwide Wage Increase on

Teacher Quality, Characteristics, Performance and Satisfaction.
Service Performed: Approximately two months in-country collecting data on teacher performance. Directly reported findings to Bank staff, the Minister of Education and cabinet.
International

2004 – 2005

Inter-American Development Bank
Bahamas Education and Training for Competitiveness (BH-1003) -
Technical and Vocational Education and Training (TVET)
Component
Loan Preparation
Service Performed: Assessed secondary technical training programs offered in schools, prepared recommendations for upgrading programs to facilitate matriculation of students to postsecondary technical training programs.

Service to University/College/Department/Program & Community

Begin/End Date	Committee/Group/Activity	Role
<i>For the University of North Texas:</i>		
2011 – present	Center for Interdisciplinary Research and Analysis	Director
2011 (March)	How to Handle Missing Data – College Colloquium	Presenter/Instructor
2010 – 2011	Ad Hoc Departmental Committee to develop proposal for THECB proposing new PhD in EPSY	Chair/Lead Writer
2009 – present	Departmental Merit and Awards Committee	Member
2008 – 2010	Departmental Website	Webmaster
2008 – 2009	Department Chair Search Committee	Member
2008 – 2009	Open-rank Research Faculty Search Committee	Member
2008 – 2009	Assistant Prof. Research Faculty Search Committee	Member
2007 – 2010	Departmental Personnel Affairs Committee	Member
2007 – 2009	College Graduate Affairs Committee	Secretary
2008 (May 1 & 2)	Item Response Theory Workshop Co-sponsored by the COE Academy for Professional Development and Center for Interdisciplinary Research and Analysis (CIRA). Designed promotional fliers, contacted and arranged for colleagues from Baylor University and Southern Illinois University to co-present, developed syllabus, arranged for facility space for teaching and labs, advertised on UNT website and national listservs, developed and administered evaluations, and taught to over 40 participants from UNT (included faculty from several departments outside the COE) and other universities and institutions throughout the State.	Coordinator/Instructor
2008 (October)	Faculty Research Grant Program	Reviewer
2008 (February)	UNT EET senior design project Consultation with 10 UNT Electronic Engineering Technology Students for senior design project to assess k-12 students on robotics content and an evaluation instrument for corporate sponsors.	Consultant
2007 – 2008	Department Chair Search Committee	Member
2007 – 2008	Education Research Exchange Committee	Member/Reviewer
2007 – present	UNT EPSY Listserv	Administrator
<i>For Baylor University:</i>		
2006 – 2007	Institutional Review Board Committee for the protection of human subjects	Member
2006 (Fall)	SACS Accreditation QEP Proposal Team	Member
2005 – 2007	Cycling Club	Faculty Sponsor
2002 – 2005	Board of Directors – Waco Family YMCA	Member

SCHOLARLY AND CREATIVE ACTIVITIES**Publications (Refereed):**

- Saxon, T. F., **Hull, D. M.**, Fearon, D. D., Williams, L. O., & Tindigarukayo, J. K. (in press). Jamaica's unattached, low social status youth: How do they see themselves on career and life skills? *Comparative Education Review*.
- Ray, D. C., **Hull, D. M.**, Thacker, A. J., Pace, L. S., Swan, K. L., Carlson, S. E., & Sullivan, J. M. (2011). Research in Counseling: A 10-year review to inform practice. *Journal of Counseling and Development*, 89, 349-359.
- Hayes, D., Huey, E., **Hull, D. M.**, & Saxon, T. F. (2011). The influence of youth assets on the career decision-making self-efficacy in unattached Jamaican youth. *Journal of Career Development*. doi:10.1177/0894845310390364
- Glover, R. J., Garmon, L. C., & **Hull, D. M.** (2011). Media's moral messages: Assessing perceptions of moral content in television programming. *Journal of Moral Education*, 40(1), 89-104. doi: 10.1080/03057240.2011.541773
- Hull, D. M.**, & Beaujean, A. A. (2011). Higher order factors of personality in Jamaican young adults. *Personality and Individual Differences*, 50(6), 878-882. doi:10.1016/j.paid.2011.01.013
- Hull, D. M.**, Beaujean, A. A., Worrell, F. C., & Verdisco, A. E. (2010). An item-level examination of the factorial validity of NEO-Five Factor Inventory scores. *Educational and Psychological Measurement*, 70(6), 1021-1041. doi: 10.1177/0013164410378091
- Henson, R. K., ***Hull, D. M.**, & Williams, C. (2010). Methodology in our education research culture: Toward a stronger collective quantitative proficiency. *Educational Researcher*, 39, 229-240. doi: 10.3102/0013189X10365102
- (* co-lead au)
- Hull, D. M.**, & Saxon, T. F. (2009). Negotiation of meaning and co-construction of knowledge: An experimental analysis of asynchronous online instruction. *Computers & Education*, 52(3), 624-639. doi:10.1016/j.compedu.2008.11.005

Beaujean, A. A., **Hull, D. M.**, Sheng, Y., Worrell, F. C., Bolen, J., & Verdisco, A. E. (in review). Examining the psychometric properties of the Shipley Block Design Task: A study with Jamaican young adults.

§Bolen, J. A., & **Hull, D. M.** (in review). Spatial ability, motivation and attitude of students as related to science achievement.

§Akers, A., & **Hull, D. M.** (in preparation). Determination of the optimal number of strata for bias reduction in propensity score matching.

§Bolen, J., **Hull, D. M.**, Gardner, J., & Fearon, D. (in review). Five factor structure and parameter invariance of the Career Decision Self-Efficacy Scale-SF.

§Mehta, V., & **Hull, D. M.** (in review). Structural validity and item functioning of the LoTi Digital-Age questionnaire.

§Johnson, U. Y., & **Hull, D. M.** (in review). Parent involvement in math and science achievement: A latent growth curve analysis.

Hull, D. M., Bolen, J., Illich, P., & Glover, R. J. (in review). Photonics technician employment in the United States: An industry survey of current and future demand in 2009 for education and training programs.

§**Hull, D. M.**, Wei, M., Turner, H. J., & Chen, D. (in preparation). Construct validity of a situational judgment test to assess workplace skills: CFA and IRT with unattached Jamaican young adults.

Hull, D. M., & Turner, H. J. (in preparation). Cognitive ability and personality profiles of technological students in two-year colleges.

Beaujean, A. A., **Hull, D. M.**, & Henson, R. K. (in preparation). Using propensity scores in school psychology research: A methodological review with a worked example.

Hull, D. M. (in preparation). Factor structure and item analysis of the Youth Asset Survey with unattached Jamaican adolescents.

§Chen, D., Johnson, U., & **Hull, D. M.** (in preparation). Workplace skills development in Jamaican unattached youth: Cognitive ability and personality dimensions in latent growth models.

Hull, D. M., Saxon, T. F., Fearon, D. D., Verdisco, A. E., Williams, L. O., & Tindigarukayo, J. (in preparation). The impact of positive youth development: A longitudinal efficacy study of the National Youth Service of Jamaica with unattached youth.

Henson, R. K., Williams, C., & **Hull, D. M.** (in preparation). Defining the educational researcher.

§Indicates paper co-authored with students

Presentations (Refereed):

International/National

Turner, H. J. & **Hull, D. M.** (2012, February). *Designing a cluster randomized control trial: A practical example from Belize*. Paper presented at the annual meeting of the Southwest Educational Research Association, New Orleans, Louisiana.

Turner, H. J., Beaujean, A. A., & **Hull, D. M.** (2011, December). *Classification of students in two-year colleges: A latent class model approach*. Paper presented at the Twelfth Annual Conference of the International Society for Intelligence Research, Cyprus.

Hull, D. M., Glover, R. J., Saxon, T. F., & Verdisco, A. E. (2011, October). *Positive youth development in Jamaica: A longitudinal field trial of the National Youth Service (NYS) Corps Program*. Paper presented at the meeting of the Conference on Emerging Adulthood, Providence, RI, USA.

Hull, D. M., Beaujean, A. A., Worrell, F. C., & Verdisco, A. E. (2011, July). *Personality in Jamaican youth*. Poster presented at the International Society for the Study of Individual Differences, London, UK.

Halstead, A. C., & **Hull, D. M.** (2011, February). *Personality and cognitive ability as a predictor of mathematics performance*. Paper presented at the Southwest Educational Research Association Annual Conference, San Antonio, TX.

Bolen, J. A., Gardner, J. E., Fearon, D., & **Hull, D. M.** (2011, February). *Five factor structure and parameter invariance of the career decision self-efficacy scale-SF*. Paper presented at the Southwest Educational Research Association Annual Conference, San Antonio, TX.

Hull, D. M., Beaujean, A. A., & Glover, R. J. (2010, December). *Cognitive abilities of two-year college students in workforce preparation programs: Differential performance of technological and non-technological students in community and technical colleges*. Poster presented at the International Society for Intelligence Research, Washington, D.C.

Hull, D. M., Worrell, F. C., Beaujean, A. A., Sheng, Y. S., & Verdisco, A. E. (2010, May). *Psychometric Properties of the Shipley Block Patterns Subtest in Jamaican Young Adults*. Poster presented at the Association for Psychological Science, Boston, MA.

Hull, D. M., Beaujean, A. A., Worrell, F. C., & Verdisco, A. E. (2009, May). *Examining the NEO-Five Factor Inventory in Jamaican young adults*. Poster presented at the Association for Psychological Science, San Francisco, CA.

Myers, A. E., Wilkerson, T. L., & **Hull, D. M.** (2008, March). *Analysis of problem-solving strategies for project PRIME (promoting rigorous instruction in mathematics education) participants*. Poster presented at the annual meeting of the American Educational Research Association, NY.

Wilkerson, T., Johns, B., **Hull, D. M.** & Myers, A. (2007, November). *Partnerships that effect mathematical content knowledge of teachers to impact student understanding*. Paper presented at the annual meeting of the School Science and Mathematics Association: Indianapolis, IN.

Hull, D. (2006, April). *Socially shared cognition in asynchronous online discussion*. Poster session presented at the annual meeting of the American Educational Research Association: San Francisco, CA.

Presentations (Invited – 2006 to present):

International

Hull, D. M. (2008, September). *Skills in photonics: Analysis and development of standards*. Paper presented at a meeting sponsored by the European Community and the University of Bordeaux - Photonic and laser education within clusters: A global approach. Bordeaux, France.

Hull, D. M. (2006, May). *De-linking of teachers salaries from the public service: A retrospective longitudinal study of nationwide wage increase on teacher quality, characteristics, performance, and satisfaction*. Final Report to the Minister of Education, Trinidad & Tobago. Port-of-Spain, Trinidad.

National

Hull, D. M. (2010, March). *How to handle missing data*. Invited workshop for the Society for Research in Human Development Annual Conference, San Antonio, TX.

Henson, R. K., Chen, Q., **Hull, D. M.**, Natesan, P., Nimon, K., & Tashakkori, A. (2010, February). *Quantitative consultation for researchers*. Training given at the annual meeting of the Southwest Educational Research Association, New Orleans, LA.

Local

Hull, D. M. (2007, December). *Socially constructed knowledge in asynchronous online learning environments*. University of North Texas Center for Distributed Learning Brown Bag Seminars. Denton, TX.

Hull, D. M. (2007, June). *Preparing effective test questions*. Baylor University Summer Faculty Institute. Waco, TX.

Hull, D. M. (2006, June). *Preparing effective test questions*, Baylor University Summer Faculty Institute. Waco, TX

Hull, D. M. (2006, September). *Classroom assessment in college*. Baylor University Teacher Assistant Preparation Program. Waco, TX

Published Technical Reports and Monographs (2004 to present):

Hull, D. M. (2009). *Working paper #11: Qualitative evaluation of a dual-credit online course*. Prepared for the National Center for Optics and Photonics Education, OP-TEC program evaluation working paper series. Waco, TX: OP-TEC.

Mehta, V., & **Hull, D. M.** (2009). *Working paper #10: Analysis of OP-TEC Workshop Evaluation Forms: Concordance of Working Papers #8 & #9*. Prepared for the National Center for Optics and Photonics Education, OP-TEC program evaluation working paper series. Waco, TX: OP-TEC.

Mehta, V., & **Hull, D. M.** (2009). *Working paper #9: Analysis of OP-TEC Workshop Evaluation Forms – Analysis II*. Prepared for the National Center for Optics and Photonics Education, OP-TEC program evaluation working paper series. Waco, TX: OP-TEC.

Mehta, V., & **Hull, D. M.** (2009). *Working paper #8: Analysis of OP-TEC Workshop Evaluation Forms*. Prepared for the National Center for Optics and Photonics Education, OP-TEC program evaluation working paper series. Waco, TX: OP-TEC.

Hull, D. M., Ruggiere, P., & Illich, P. (2009). *Photonics technician employment in the United States: An industry survey of current and future demand in 2009 for education and training programs*. Prepared for the National Center for Optics and Photonics Education, OP-TEC program evaluation working paper series. Waco, TX: OP-TEC.

Hull, D. M. (2007). *Preparation of the Jamaican youth development program: Report on the institutional assessment of the National Youth Service*. Prepared for the Inter-American Development Bank and the Jamaica Ministry of Education. Washington, D.C.: Inter-American Development Bank.

Hull, D. M., & Gutzwiller, R. (2007). *Working paper #5: Two-year college enrollment and graduation rates: An estimation of workforce supply for technicians in optics, photonics and laser technology*. Prepared for the National Center for Optics and Photonics Education, OP-TEC program evaluation working paper series. Waco, TX: OP-TEC

- Myers, A., & **Hull, D. M.** (2007). *Working paper #4: Recruitment and retention in optics and photonics technology programs at two-year colleges in the United States*. Prepared for the National Center for Optics and Photonics Education, OP-TEC program evaluation working paper series. Waco, TX: OP-TEC.
- Hull, D. M.**, & Myers, A. (2006). *Delinking of teachers salaries from the public service: A retrospective longitudinal study of nationwide wage increase on teacher quality, characteristics, performance, and satisfaction*. Prepared for the Inter-American Development Bank and the Trinidad and Tobago Ministry of Education. Washington, D.C.: Inter-American Development Bank.
- Hull, D. M.**, & Myers, A. (2006). *A world in motion (AWIM): Final curriculum evaluation report*. Prepared for Southern Methodist University and the Society for Automotive Engineering Education Foundation. Waco, TX: Baylor Evaluation Services Center.
- Hull, D. M.** (2006). *21st Century Community Learning Centers: Summative evaluation report*. Prepared for the Waco Independent School District and Texas Education Agency. Waco, TX: Baylor Evaluation Services Center.
- McCullough, M., **Hull, D. M.**, & Saxon, T. (2006). *The Delta project: Examination of standards-based practices in teacher education*. Prepared for the Houston Endowment. Waco, TX: Baylor Evaluation Services Center.
- Young, J. K., & **Hull, D. M.** (2006). *CORD Algebra 1: Mathematics in context curriculum evaluation report*. Prepared for the Center for Occupational Research & Development. Waco, TX: Baylor Evaluation Services Center.
- Golfin, P., **Hull, D. M.**, & Ruffin, M. (2005). *Strengthening mathematics skills at the postsecondary level: Promising practices in community colleges, businesses, and the military*. Prepared for Office of Vocational and Adult Education, Division of Adult Education and Literacy. Washington, D.C.: U.S. Department of Education.
- Hull, D. M.** (2005). *Education and training for competitiveness*. Project preparation and loan documentation. Prepared for the Inter-American Development Bank and The Bahamas Ministry of Education. Washington DC: IDB.
- Golfin, P., Jordan, W., **Hull, D. M.**, & Ruffin, M. (2004). *Strengthening math skills at the postsecondary level: Literature review and analysis*. Prepared for Office of Vocational and Adult Education, Division of Adult Education and Literacy. Washington, D.C.: U.S. Department of Education.

Journal Reviews:

2010	<i>Educational and Psychological Measurement</i> , Ad-Hoc Reviewer <i>American Education Research Journal</i> , Ad-Hoc Reviewer
2009	<i>Computers & Education</i> , Ad-Hoc Reviewer
2008	<i>Educational and Psychological Measurement</i> , Ad-Hoc Reviewer
2007	<i>Educational and Psychological Measurement</i> , Ad-Hoc Reviewer

Grants and Contracts (Funded)

For the University of North Texas:

2011 – Present *Childhood Resiliency Effects from School-wide Treatment* (CREST)

Inter-American Development Bank: \$425,000

Cluster-Randomized Trial with Belize District Schools

Principal Investigator with D. Hayes Co-PI

2008 - 2010 *Individual differences in technological proficiency.*

National Science Foundation: Advanced Technological Education

Program, Washington, DC. Year 1: \$138,992 (NSF/DUE 0832874

Enhancing Targeted Research in the Advanced Technological Education

Program)

Principal Investigator with R. Glover Co-PI

2008 *Industry demand for photonics technicians.*

OP-TEC (NSF Center) contract for survey data collection with UNT

Survey Research Center. Amount: \$13,900.

Co-Principal Investigator with P. Ruggiere PI

For Baylor University:

2005 – 2007 *The Delta Project: Examination of Standards-Based Practices in Teacher Education*

Houston Endowment \$190,000

Co-Principal Investigator with T. Saxon.

2005 – 2007 *A World In Motion: Challenge 4*

SAE Foundation \$30,000

Independent Evaluator.

2005 – 2007 *Experimental Analysis of Contextual Mathematics Instruction in Secondary Algebra: A Curriculum Intervention Study*

Privately Funded \$25,000

Principal Investigator

2005 – 2007 *Midway High School Small Learning Communities: House Structure Grant*

U.S. Department of Education \$30,000

Independent Evaluator.

2005 – 2007 *21st Century Community Learning Centers – Waco Independent School District*

Texas Education Agency \$110,000

Independent Evaluator

- For CORD:
2004 *Integration of academics and career and technical education: Interactive teaching modules for mathematics*
U.S. Department of Education Small Business Innovation Research Program Phase II \$200,000
Co-Principal Investigator with J. Chamberlain.
- 2002 – 2003 *Development of an Online Teaching Style Inventory*,
AT&T Foundation \$30,000
Principal Investigator
- 2001 – 2003 *Scientific and Technological Education in Photonics II (STEP II)*
National Science Foundation/Advanced Technological Education \$857,028
Co-Principal Investigator with D. Hull, A. Guenther, C. Roychoudhuri, and F. Seeber.
- 2001 – 2002 *Science Teaching and Research with Technology (START)*
Interagency Education Research Initiative (NSF, OERI, & NICHD) \$102,000
Principal Investigator
Co-Principal Investigators: B. Tinker, G. Nelson, J. Pellegrino, R. Kirk, and R. Yinger.
- 2000 – 2001 *Telecommunications in Education*
U.S. Department of Education, Fund for the Improvement of Education, OERI \$300,000
Co-Principal Investigator with K. Obbink.
- 1999 – 2000 *Postsecondary Teacher Development in Contextual Teaching*
City Colleges of Chicago \$200,000
Principal Investigator
- 1998 – 2000 *Curriculum Morphing*
U.S. Department of Education \$600,000
Fund for the Improvement of Postsecondary Education (FIPSE)
Principal Investigator
- 1997 – 1999 *Scientific and Technological Education in Photonics I (STEP I)*
National Science Foundation/Advanced Technological Education \$267,000
Co-Principal Investigator with C. Roychoudhuri.

- 1997 – 1998 *Feasibility Studies in Secondary Vocational/Technical Education in the Republic of Turkey*
World Bank and the Ministry of Education of Turkey \$298,000
Principal Investigator with A. Navarra
- 1996 – 1999 *Texas Interactive Learning Network*
AT&T Foundation \$1.5M
Principal Investigator
- 1996 – 1997 *Electro-magnetic Technology Occupational Cluster Project*
U.S. Department of Labor \$189,000
Principal Investigator
- 1994 – 1996 *National Photonics Skill Standards*
U.S. Department of Education, OVAE \$511,740
Principal Investigator

INSTRUCTIONAL ACTIVITIES

Instructional Assignments

<i>Semester, Year</i>	Enrollment	Student Evaluation				
Course Prefix, #, Title						
Graduate Courses						
For the University of North Texas:						
<i>Fall, 2011</i>						
EPSY 6040	Foundations of Ed. Psy.	20	N/A			
EPSY 6220	Modern Ed. Meas. Theo.	19	N/A			
EPSY 6900	Special Problems	3				
EPSY 6950	Dissertation	1				
 <i>Summer, 2011</i>						
EPSY 5250	Grant Writing	20	N/A			
EPSY 6900	Special Problems	1				
EPSY 6950	Dissertation	1				
 <i>Spring, 2011</i>						
EPSY 5250	Grant Writing	34	N/A			
EPSY 6240	Technology in Research	17	N/A			
EPSY 6950	Dissertation	5				
			OEM	LE	SRL	Overall
 <i>Fall, 2010</i>						
EPSY 5210	Intro to Ed. Statistics	37	831	787	783	805
EPSY 6040	Foundations of Ed. Psy.	21	747	824	847	837
EPSY 6950	Dissertation	5				
			OEM	LE	SRL	Overall
 <i>Spring, 2010</i>						
EPSY 5050	Ed. Research & Eval.	25	750	851	792	759
EPSY 6250	Adv. Ed. Meas.	12	748	935	757	826
EPSY 6900	Special Problems	4				
EPSY 6950	Dissertation	4				
 <i>Summer, 2010</i>						
EPSY 6900	Special Problems	1				
EPSY 6950	Dissertation	2				
			OEM	LE	SRL	Overall
 <i>Fall, 2009</i>						
EPSY 6040	Foundations of Ed. Psy.	9	794	776	787	776
EPSY 6220	Modern Ed. Meas.	11	783	828	806	805
EPSY 6900	Special Problems	1				
EPSY 6950	Dissertation	3				

Note: In Fall 2009, UNT implemented a new Student Evaluation of Teaching Effectiveness (SETE), on which faculty received ratings for: Organization and Explanation of Material (OEM), Learning Environment (LE), and Self-Regulated Learning (SRL). New cut points (ranges) for these scores are developed university-wide each semester for Highly Effective, Effective, and Somewhat Effective and listed below for reference.

Fall 2010	OEM	LE	SRL	Overall
Highly Effective	749-942	709-1000	771-948	745-905
Effective	587-748	495-708	605-770	564-744
Somewhat Effective	508-586	-----	597-604	539-563
Spring 2010	OEM	LE	SRL	Overall
Highly Effective	742-930	704-986	768-1000	739-901
Effective	579-741	547-703	599-767	565-738
Somewhat Effective	501-578	-----	531-598	528-564
Fall 2009	OEM	LE	SRL	Overall
Highly Effective	710-981	659-972	747-998	702-998
Effective	438-709	347-658	495-746	406-701
Somewhat Effective	167-437	35-346	243-494	111-405

Summer, 2009

EPSY 5250	Grant Writing	27	Mean	SD
			(rating scale: 1-5)	

Spring, 2009

EPSY 6240	Technology in Research	21	4.46	0.40
EPSY 6250	Advanced Ed. Meas.	7	4.30	0.32
EPSY 6950	Dissertation	1		

Spring, 2008

EPSY 5250	Grant Writing	12	3.77	0.51
EPSY 6240	Technology in Research	12	4.58	0.34
EPSY 6250	Advanced Ed. Meas.	7	4.5	0.46
EPSY 6950	Dissertation	1		

Fall, 2008

EPSY 6040	Foundations of Ed. Psy.	14	4.45	0.26
EPSY 6220	Classical & Mod. Meas.	7	4.38	0.35
EPSY 6900	Special Problems	1		

Fall, 2007:

EPSY 5210	Intro to Ed. Statistics	18	4.06	0.48
EPSY 6220	Classical & Mod. Meas.	7	4.68	0.15

For Baylor University

Spring, 2007:

EDP 5333 Psychology of Learning 10 N/A

Fall, 2006:

EDP 5340 Meas. & Evaluation 12 N/A

Spring, 2006

EDP 5340 Meas. & Evaluation 9 N/A

Summer, 2006

EDP 6338 Grant Writing 8 N/A

Fall, 2005

EDP 5334 Measurement & Eval. 5 N/A

Spring, 2005

EDP 5340 Measurement & Eval. 10 N/A

Summer, 2005

EDP 6338 Grant Writing 8 N/A

Fall, 2004

EDP 5340 Measurement & Eval. 5 N/A

Summer, 2004

EDP 6338 Grant Writing 4 N/A

Spring, 2004

EDP 5334 Introduction to Statistics 14 N/A

Undergraduate Courses

For Baylor University

Fall, 2006

CHA 1088 University 1000 23 N/A

New Course Development, New Course Preparations and Major Course Revisions

For the University of North Texas

Fall 2011:

EPSY 6040 Foundations of Educational Psychology
 While the course contained readings related to causality in research, this topic has been greatly expanded to include Murnane and Willett's (2011) methods text so as to emphasize the implementation of designs (regression discontinuity, instrumental

variables, propensity scores, and experimental trials) that permit educational researchers to draw valid inferences within real-world contexts. There are also two weeks devoted to the study of individual differences in education with a text by Miele (2002), and the paper by Rushton and Jensen (2005).

- Fall 2008:*
 EPSY 6040 *Foundations of Educational Psychology*
 Developed course and introduced all new texts requiring accompanying discussion notes: Kuhn (1996); Lagemann (2000), National Research Council (2002); Zimmerman & Schunk (2003); and Glover & Ronning (1987). Also required additional readings from published articles: Leahey (1992); Skinner (1984); and Watson (1913).
- Spring 2008:*
 EPSY 5250 *Grant Writing*
 Revision/development of course to offer online for first time
- EPSY 6240 *Technology in Research*
 Developed course, included new texts (Crawley; 2004; 2007) exercises, and resources to move completely from SPSS to R as a programming language for statistical analysis.
- EPSY 6250 *Advanced Educational Measurement*
 Developed course, introduced new text (Embretson & Reise, 2000) and acquired two new software programs for the college (BILOG-MG & PARSCALE) that required creation of new computer assignments for IRT modeling/equating/differential functioning for both unidimensional dichotomous and polytomous items, new assessments and ancillary readings.
- Fall 2007*
 EPSY 6220 *Classical & Modern Educational Measurement Theory*
 Developed course, introduced all new text materials (Crocker & Algina, 2006; Shavelson & Webb, 1991; Cardinet, Johnson, & Pini, 2009), additional ancillary readings and computer analyses.
- For Baylor University
Spring, 2007
 EDP 5333 *Psychology of Learning*
 Revised course, including selection of new primary text (Ormrod, 2004), 3 ancillary primary source texts (Skinner, Piaget, & Vygotsky), and implementation of virtual rat training laboratory experiments.
- Fall, 2004*
 EDP 5340 *Measurement & Evaluation*
 Revised entire course including selection of new text (Cohen &

Swerdlik, 2005), development of assignments, creation of examinations, establishing activities/presentations, etc.

Summer, 2004
EDP 6338

Grant Writing

Revised entire course including selection of new texts (Karsh & Fox, 2003; Miner & Miner, 2003), group activities, speakers, etc.

Student Advisement

Graduate – Dissertation Advisement

<u>Semester, Year</u>	<u>Student name, role, degree status, dissertation study title</u>
Spring 2008 – Spring 2010	Allen Akers, Role: Dissertation Chair/Major Professor PhD, Educational Research, Awarded May 2010 <i>Determination of the Optimal Number of Strata for Bias Reduction in Propensity Score Matching</i>
Fall 2009 – Spring 2011	Judy A. Bolen, Role: Dissertation Chair/Major Professor PhD, Educational Research, Awarded May 2011 <i>Spatial ability, motivation, and attitude of students as related to science achievement</i>
Spring 2010 – Present	Janet Gardner, Role: Dissertation Chair/Major Professor PhD Candidate, Educational Research, Proposed October 2011 <i>Sex and age differences in spatial ability among professional nurses</i>
Fall 2010 – Summer 2011	Ursula Y. Johnson, Role: Dissertation Chair/Major Professor PhD, Educational Research, Awarded August 2011 <i>Parental involvement and science achievement: A latent growth curve analysis</i>
Fall 2010 – Spring 2011	Vandhana Mehta, Role: Dissertation Chair/Major Professor PhD, Educational Research, Awarded May 2011 <i>Structural validity and item functioning of the Lo-Ti Digital-Age survey</i>
Fall 2008 – Spring 2008	R. Michael Haynes, Role: Committee Member, PhD Higher Education, Awarded: May 2009 <i>A predictive model of Hispanic participation in Texas higher education: Inferences drawn from institutional data in prevalent Hispanic States</i>
Fall 2008 – Spring 2008	Kevin E. Kalinowski, Role: Committee Member, PhD Educational Research, Awarded: May 2009 <i>Stratified item selection and exposure control in unidimensional adaptive testing in the presence of two-dimensional data</i>
Spring 2011 – Fall 2011	Forrest Lane, Role: Committee Member, PhD Educational Research, Awarded: December 2011 <i>The use of effect size estimates to evaluate covariate selection and bias reduction in propensity score matching.</i>
Spring 2008 – Present	Kim Nimon, Role: Committee Member PhD Candidate, Educational Research

Fall 2010 –
Summer 2011

Tawana Stallworth, Role: Committee Member
PhD Special Education, Awarded: August 2011
*Personnel preparation in autism spectrum disorders: Special education
faculty knowledge and its impact on programmatic changes*

Fall 2010 –
Summer 2011

Jennifer Austin, Role: Committee Member
PhD Special Education, Awarded: August 2011
*The use of evidence-based practices in the provision of social skills
training for students with autism spectrum disorders: A national survey of
school psychologists' training, attitudes, and practices*

Fall 2010 –
Summer 2011

Trube Miller, Role: Committee Member
PhD Special Education, Awarded: August 2011
*The roles elementary school counselors perform in the education of
students with autism spectrum disorders*

Fall 2008 –
Present

Rachael Robertson, Committee Member
PhD Candidate, Applied Technology Training and Development

Spring 2008 –
Present

Min Wei, Committee Member
PhD Candidate, Educational Research