

Name: Melinda Miller Holt  
Title: Associate Professor  
Department: Mathematics and Statistics  
College: Arts and Sciences

### Degrees Earned

#### ***Baylor University, Waco, Texas***

**Ph.D.**, Statistics, 1995  
**M.A.**, Mathematics, 1991  
**B.A.**, Mathematics, 1990 (Cum Laude)

### Professional Licensure and Certifications

### Peer-Review Publications and Artistic Performances/Exhibitions

#### **Articles Books Chapters Proceedings Artistic Performances**

Bier, S., Hermstad, E., Trollman, C., and Holt, M. (2011), "Army Flight Medic Performance of Advanced Emergency Medical Technician Procedures," to appear in *Annals of Emergency Medicine*.

Bier, S., Hermstad, E., Trollman, C., and Holt, M. (2011), "Army Flight Medics in Iraq and Afghanistan: A Survey," to appear in *Annals of Emergency Medicine*.

Clark, S., Mondin, L., Weber, C. and Winborn, J. (2011) "Interval Estimates for Predictive Values in Diagnostic Testing with Three Outcomes," accepted for publication in the *Society for Industrial and Applied Mathematics Undergraduate Research Online*. \*+

Stamey, J. and Holt, M. A. (2010) "Bayesian Interval Estimation for Predictive Values for Case-Control Studies," *Communications in Statistics – Simulation and Computation* **39**, pp. 101-110.

Loft, B. and Holt, M. (2010) "Increasing STEM Graduation Rates at SHSU," *International Journal of Applied Geospatial Research*, **1**, pp. 76-77.

Holt, M. A. and Scariano, S. M. (2009) "Mean, Median and Mode from a Decision Perspective," *Journal of Statistics Education* **17**. [www.amstat.org/publications/jse/v17n3/holt.html](http://www.amstat.org/publications/jse/v17n3/holt.html)

Holt, M. A., Stamey, J., Seaman, J. W., and Young, D. M. (2009) "Bayesian Test and Sample Size Determination Methods for Binary Outcomes in Fixed-Dose Combination Drug Studies," *Journal of Biopharmaceutical Statistics* **19**, pp. 120-132.

Stamey, J., Young, D. M., Seaman, J. W., and Holt, M. (2005) "Bayesian Closed-Form Predictive Probability Functions for Counts using Data Subject to Misclassification," *Far East Journal of Theoretical Statistics*, pp. 43-59.

Holt, M. A., Stamey, J., Seaman, J. W., and Young, D. M. (2004) "A Note on Distribution-free Tests for Interaction in Quantal Response Data," *Journal of Statistical Computation and Simulation* **74**, pp. 683-690.

Stiller, J., Holt, M. M. (2004) "Factors Associated with Female Patients' Referral for Cardiac Rehabilitation," *Rehabilitation Nursing* **29**, pp. 18-23.

Demuynck, M-A, Zimmerman, W., Edwards, D.E., Holt, M.M. (2004) "Expanding Horizons for Women and Minorities: Stimulating Interest in Engineering through Web-based Modules," *Proceedings of the 2004 American Society for Engineering Education Gulf-Southwest Annual Conference*.

Edwards, D.E., Demuynck, M-A, Holt, M.M., Cox, R. (2004) "Texas Engineering Partnerships: Expanding Opportunities for Women," *Proceedings of the 2004 American Society for Engineering Education Gulf-Southwest Annual Conference*.

Hamner, M.S., Holt, M., McGee, E., Dickey-Davis, D. (2004) "Exploring the Difference Between Science and Non-Science Majors in an Environment that Controls for the Presence of Males," *Proceedings of the 2004 American Society for Engineering Education Gulf-Southwest Annual Conference*.

Miller, M. A., Seaman, J. W. (1998) "A Bayesian Approach to Assessing the Superiority of a Dose Combination," *Biometrical Journal* **40**, 43-55.

### **Research Monographs and Technical Reports Funded External Grants**

"Peers Enhancing their Education through Research and Scholarships," by Brian Loft, Melinda Holt and Anne Gaillard, submitted to the National Science Foundation requesting \$599,980, awarded for this amount.

"Recruiting Superior Integrated Science and Technology Students," by Melinda Holt and Randolph Belter, funded by the Louisiana Board of Regents in the amount of \$36,000. Matching funds in the amount of \$18,000 from Southeastern Louisiana University.

“Middle School Mathematics & Science Project,” by Jefferson Parish Independent School District, funded by the Louisiana State Department of Education in the amount of \$450,000.

“Tomorrow’s Workforce Today,” by Melinda Miller Holt and Don Edward, funded by the National Science Foundation in the amount of \$400,000. Matching funds pledged by Texas Instruments, In. in the amount of \$150,000.

“CSEMS Scholars Program,” by Melinda Miller Holt and Don Edwards, funded by the National Science Foundation in the amount of \$270,000, August 2000 – July 2002. Matching funds pledged by Texas Instruments, Inc. in the amount of \$200,000.

“Integrated Statistics and Computer Science Courses,” by Melinda Miller and Marie-Anne Demuynck, funded in the amount of \$87,577 by the National Science Foundation, August 1999 – July 2002.

### **Peer-Review Presentations/Posters**

Holt, M. M. (2006) “Bayesian Identification of Superiority in Fixed-dose Combination Drug Studies,” Summer Research Conference on Statistics, Kerrville, Texas.

Miller, M. A., Seaman, J. W. (1999) “A Bayesian Approach to Fixed-Dose Clinical Trials,” Conference of Texas Statisticians, Dallas, Texas.

### **Work or Professional Experiences**

**Sam Houston State University**, Associate Professor, 2006 – present, tenured in 2009

**Louisiana State University**, Adjunct Associate Professor, 2005 – 2009

**Southeastern Louisiana University**,

Graduate Coordinator, Integrated Science and Technology, 2005 – 2006

Associate Professor, 2003 – 2006, tenured in 2006

**Texas Woman’s University**,

Associate Professor, 2000 – 2003, tenured in 2002

Assistant Professor, 1998 – 2000

**Sam Houston State University**, Assistant Professor, 1997 – 1998

**Northern Kentucky University**, Assistant Professor, 1995 – 1997

### **Honors and Awards**

Who’s Who Among American College Teachers, 2002

Texas Woman's University Mary Mason Lyon Outstanding Junior Faculty Award, 2002

Phi Kappa Phi Honor Society Initiate, 2002

Phi Beta Kappa Honor Society Initiate, 1990

## Other Competencies