

J. Christine Harmes

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Education

Ph.D. in Curriculum and Instruction with dual emphases in Educational Measurement & Research and Instructional Technology

University of South Florida, August 2002, GPA 4.0

Dissertation: "Accuracy and Stability of Item Parameter Estimates under Conditions of Sparse Data: Implications for Computerized Adaptive Testing"

M.S.L.S., School of Information & Library Science,

University of North Carolina at Chapel Hill, August 1995, GPA not reported

Thesis: "International Information Transfer: Translation Patterns in Scientific and Technical Journal Literature"

Graduate study in Linguistics

Ohio University, September 1993-April 1994, GPA, 4.0

25 quarter hours completed

M.A. in Economics

Ohio University, November 1992, GPA 3.8

Concentrations in International Trade and Econometrics

Thesis: "Effects of a NAFTA on Import Demand for Corn in Mexico"

A.B. in Spanish

Ohio University Honors Tutorial College, August 1991, GPA 3.8

Minors in Economics and Political Science

Thesis: "Translation of a Collection of Short Stories by Emilia Pardo Bazán"

Professional Experience

(July 2008-present) Director, Ph.D. Program in Assessment & Measurement

Department of Graduate Psychology, James Madison University

- Lead and advocate for faculty, staff, and students
- Administer the doctoral program (course schedules, teaching assignments, recruitment)
- Represent the program on graduate councils within the university
- Communicate with external groups through various media

(July 2005-present) **Assistant Professor of Graduate Psychology**

Center for Assessment & Research Studies (CARS), James Madison University

- Teach courses in measurement and research; supervise doctoral students
- Serve as Assistant Coordinator for the Institute for Computer-Based Assessment
- Provide assessment service to general education cluster for Fine Arts and Humanities
- Chair the Marketing and Communications Committee for CARS
- Chair the Mixed Methods Research Group
- Co-Chair the Computer-Based Testing Research Group

(Dec. 2002-present) **Assessment Consultant**

Florida Department of Education, Bureau of Instruction & Innovation and Office of Educational Technology

- Supervised development and administration of a state-wide computer-based assessment for teacher technology literacy
 - Lead interface design and innovative item specifications
 - Coordinated item development and review; pilot, usability, and field testing
 - Facilitated expert review panels (face-to-face and online)
 - Supervised item scoring, descriptive analysis and web-based score reporting
 - Conducted psychometric analyses and lead reporting to DOE
 - Communicated with stakeholder groups across the state
- Supervised development and administration of a state-wide computer-based survey of technology integration in Florida schools
 - Coordinated item development, review, and pilot testing
 - Facilitated focus group discussions with content experts
 - Performed data filtering, item scoring, descriptive analysis and web-based reporting
 - Conducted psychometric analyses
- Laptops for Learning – task force member for research design

(2001-2004) **Adjunct Professor**

Department of Educational Measurement & Research, College of Education, University of South Florida

- Taught graduate level courses in Educational Measurement

(2002) **Adjunct Professor**

Department of Secondary Education, College of Education, University of South Florida

- Taught graduate level course in Web Design (EME 6936)

(2000-2002) **Graduate Research Assistant**

Institute for Instructional Research and Practice, University of South Florida

- Participated as Research Assistant on a grant from the Department of Military Defense Contractors (DMDC) “New Methods for Item Exposure and Item Selection in the CAT ASVAB”

(1999-2001) Graduate Teaching Assistant

College of Education, University of South Florida

- Co-taught graduate level course in Educational Measurement (EDF 6432)
- Taught and co-taught graduate level courses in Instructional Technology (EDF 6284 and multiple sections of EME 6936)

(1999-2001) Instructional Technology Consultant

Instructional Technology Department, Sarasota County School Board

- Led the instructional design for and participated in the development of a web-based training module for teachers
- Provided software training (WebCT, Macromedia Fireworks)

(1998-2000) VITAL Team Leader/Technology Consultant

*Florida Center for Instructional Technology, College of Education,
University of South Florida*

- Advised faculty members on migration of their courses to an online environment
- Facilitated web-oriented technology workshops for university faculty members
- Coordinated the efforts of three graduate assistants working on the VITAL team
- Re-designed and maintained College of Education *Learn from a Distance* website

(1998) Volunteer Librarian

Howick Public Library, Auckland, New Zealand

- Performed all duties from combined service desk: shelving, circulation, reference questions

(1996-1997) Coordinator of Night-Time Services/Reference Librarian

D.H. Hill Library, North Carolina State University

- Oversaw library facilities and operations from 12-9 AM
- Provided all aspects of reference desk services; negotiated and answered reference queries, instructed and assisted patrons with online catalog and journal article index searching and with Internet navigation

(1995-1996) Information Specialist

Northern Telecom Inc.

- Delivered customized research and reference service to employees in sales, marketing, and software engineering through the use of online databases (Dialog, Nexis, Dow Jones), market research reports, Internet sites, and print sources
- Served as Project Prime for customer value metrics analysis
- Participated as a member of the Global Services Planning directorate *Diversity Steering Committee*

(1995-1996) Reference Librarian (Part-Time)

D.H. Hill Library, North Carolina State University

- Provided weekend and evening reference service
- Negotiated and answered reference queries, instructed and assisted patrons with online catalog and journal article index searching, and with Internet navigation

(1993-1994) **Teaching Associate**

Department of Linguistics, Ohio University

- Developed and taught second-year university level linguistics course

(1993-1994) **Research Consultant**

Department of Economics, Ohio University

- Assisted with data cleanup for a grant project from the World Bank for a Generalized Equilibrium Model for Mexico
- Translated research-oriented communications from Spanish to English and English to Spanish

(1993) **Field Services Coordinator**

American Republics Division, Voice of America

- Solved technical problems between VOA and U.S. embassies and radio stations in Latin America; involved telephone communication in Spanish and English
- Compiled and maintained comprehensive Latin American VOA program placement market study report
- Translated news stories and letters from Spanish to English

(1991-1992) **Graduate Assistant**

Department of Economics, Ohio University

- Assisted with *Introduction to Macroeconomics* and *Introduction to Microeconomics* courses
- Conducted review sessions for students; administered and graded exams

(1989-1992) **Peer Tutor**

Academic Advancement Center, Ohio University

- Provided individualized instruction for students in all levels of Spanish, from grammar and pronunciation through literature and composition
- Provided individualized instruction for beginning and intermediate students in French language and literature

Internships

(Summer 2001) **Research Fellow**

*Graduate Summer Research Program, Association of American Medical Colleges,
Section for the Medical College Admission Test (MCAT)*

- Conducted research on missing data and IRT item parameter estimation

(1994-1995) **Contract Intern**

National Institute for Environmental Health Sciences Library

- Conducted online literature searching (Dialog, Medline, Toxline)
- Managed serials

(1995) Reference Intern

D.H. Hill Library, North Carolina State University

- Answered reference queries
- Assisted patrons with online database and Internet searching

(1991) Field Services Intern

American Republics Division, Voice of America

- Translated news stories from Spanish to English
- Handled communications with embassies in Latin America
- Edited audio tape for news programs

Graduate-Level Teaching Experience

James Madison University:

PSYC 695: *Masters Assessment Practicum*

- Spring 2008

PSYC 680: *Independent Study in Assessment of Aesthetic Development*

- Spring 2008 (co-taught with Sheena Rogers)

PSYC 680: *Independent Study in Mixed Methods Research*

- Fall 2006

PSYC 680: *Independent Study in Computer-Based Testing*

- Fall 2005

PSYC 814: *Performance Assessment*

- Developed new course and taught: Summer 2006, Summer 2007, Summer 2008

PSYC 825: *Doctoral Seminar in Scholarly Communication*

- Re-designed course and taught: Spring 2006, Spring 2007, Spring 2008

PSYC 850: *Special Topics: Mixed Methods Designs & Qualitative Research Tools*

- Developed new course and taught: Fall 2007

PSYC 879: *Doctoral Assessment Practicum*

- Summer 2006

PSYC 891: *Doctoral Assessment Internship*

- Fall 2006, Spring 2007, Fall 2007, Spring 2008, Fall 2008

PSYC 900: *Doctoral Dissertation*

- Summer 2007, Fall 2007, Spring 2008, Summer 2008, Fall 2008

University of South Florida:

EDG 7931: *Computer-Based Testing*

- Co-taught: Summer 2004

EDF 6432: *Foundations of Measurement*

- Developed and taught online course: Fall 2001, Spring 2002, Fall 2002, Spring 2003, Fall 2003 (WebCT and Blackboard course delivery systems)
- Co-developed and co-taught face-to-face course: Spring 2001

EME 6936: *Web Design*

- Taught online course: Spring 2002
- Co-developed and co-taught online course: Spring 2001, Summer 2001

EDF 6284: *Problems in Instructional Design for Computers*

- Co-taught: Spring 2001

EME 6936: *Interactive Media*

- Taught: Fall 2000, Summer 2001
- Co-taught: Summer 2000

EME 6936: *Telecommunications in Education*

- Co-taught online course: Summer 2000

Thesis and Dissertation Supervision

Chair the dissertation of Sara Lambert, *The Use of Innovative Items within Personnel Selection Measures: An Evaluation of Reliability, Validity and Efficiency*. (Ph.D. expected in Spring 2009)

Chair the dissertation of Jilliam Joe, *Understanding the Human Constructed Response Scoring Process: Investigating Expert and Novice Rater Perceptual Categorization through Verbal Report*. (Ph.D. expected in Fall 2008)

Committee member for the dissertation of Andrew Jones, *To Deceive or Not? The Conditions of Conditional Reasoning Measurement: A Mixed-Methods Study*. (Ph.D. expected in Spring 2009)

Co-Chair the dissertation of Amanda Dainis, *Methods for Detecting Differential Item and Test Functioning: An Investigation of Type I Error Rates and Power*. (Ph.D. granted in Summer 2008)

Committee member for the dissertation of Betty Jo Miller, *Unfolding Analyses of the Academic Motivation Scale: A Different Approach to Evaluating Scale Validity and Self-Determination Theory*. (Ph.D. granted in 2007)

Committee member for the thesis of Sarah Gottlieb (M.A. expected in Spring 2009)

Awards and Scholarships

Outstanding Faculty Award, Psychology Graduate Student Association (PGSA), Spring 2008

Outstanding Junior Faculty Award, Department of Graduate Psychology, 2007

Co-author on the *Best Paper by a Graduate Student Award*, Northeastern Educational Research Association, 2007

Finalist for the *Mary Catherine Ellwein Outstanding Dissertation Award*
American Educational Research Association-Division D, 2003

Nominated for the *Distinguished Paper Award*
Florida Educational Research Association, 2001

Nominated for the *Distinguished Paper Award*
Florida Educational Research Association, 2000

Outstanding Graduate from the Spanish Department
Ohio University, 1991

Phi Beta Kappa honor society, inducted 1991

Sigma Delta Pi Spanish scholars honor society, inducted 1989; *President*, 1990-91

Phi Kappa Phi honor society, inducted 1991

Phi Beta Delta international scholars honor society, inducted 1991

Ohio University Dean's scholarship, 1989-1991

Trustee's Scholarship, Ohio University, 1988

Ohio Board of Regents Scholarship, 1988-1992

Richland County Foundation Scholarship, 1988-1991

Ada Ford Foundation Scholarship, 1988-1991

Grants

- 2007-2009 **Principal Investigator** for research project to develop innovative item variants and to study the levels of cognitive processing involved in innovative nursing items as well as the memorability of traditional and innovative nursing items
Funding Agency: Joint Research Council of the National Council of State Boards of Nursing (NCSBN) and Pearson VUE, Inc.
Total Funding Amount: \$71,200
- 2006-2007 **Co-Principal Investigator** for research project to develop innovative, computer-based test items for the NCLEX-RN exam
Funding Agency: Joint Research Council of the National Council of State Boards of Nursing (NCSBN) and Pearson VUE, Inc.
Total Funding Amount: \$150,000
- 2003-2004 **Co-Author and Project Manager for instrument development** for an NCLB Enhancing Education Through Technology (EETT) competitive grant to develop a computer-based test for teacher basic technology skills. Project

awarded to Leon County Schools, in cooperation with the Florida Center for Interactive Media.

Funding Agency: Florida Department of Education

Total Funding Amount: \$ 765,444

Publications

- Joe, J. N., Harnes, J. C., & Barry, C. L. (in press). General education outcomes assessment within the arts and humanities: A qualitative approach to developing objectives. *Journal of General Education*.
- Parshall, C. G., & Harnes, J. C. (2008, Summer). The design of innovative item types: targeting constructs, selecting innovations, and refining prototypes. *CLEAR Exam Review*, 19(2).
- Kemker, K., Barron, A. E., & Harnes, J. C. (2007, December). Laptop computers in the elementary classroom: A case study of authentic tasks with at-risk students. *Educational Media International*, 44(4), 305-321.
- Harnes, J. C., Barron, A. E., & Kemker, K. (2007). Development and implementation of an online tool to assess teacher technology skills. In C. Crawford et al. (Eds.), *Proceedings of Society for Information Technology and Teacher Education International Conference 2007* (pp. 802-805). Chesapeake, VA: AACE.
- Parshall, C. G., & Harnes, J. C. (2007). Designing templates based on a taxonomy of innovative item types. In D. J. Weiss (Ed.). *Proceedings of the 2007 GMAC Conference on Computerized Adaptive Testing*. Retrieved February 21, 2008 from www.psych.umn.edu/psylabs/CATCentral/
- Barron, A. E., Harnes, J. C., & Kemker, K. (2005). Authentic instruction in laptop classrooms: Sample lessons that integrate Type II applications. *Computers in the Schools* 22(3/4), 119-130.
- Barron, A. E., Kemker, K., Harnes, C., & Kalaydjian, K. (2003, Summer). Large-scale research study on technology in K-12 schools: Technology integration as it relates to the National Technology Standards. *Journal of Research on Technology in Education*, 35 (4), 489-507.
- Harnes, J. C., & Barron, A. E. (2001). Assessing distance learning tools and techniques: A case study. In C. Crawford et al. (Eds.), *Proceedings of Society for Information Technology and Teacher Education International Conference 2001* (pp. 2853-2854). Chesapeake, VA: AACE.
- Kemker, K., Harnes, J. C., Kalaydjian, K. & Barron, A. E. (2001). Working toward national technology standards: Teacher use of computers in the classroom. In C. Crawford et al. (Eds.), *Proceedings of Society for Information Technology and Teacher Education International Conference 2001* (pp. 2351-2356). Chesapeake, VA: AACE.
- Parshall, C. G., Harnes, J. C., & Kromrey, J. K. (2000, Fall). Item exposure control in computer-adaptive testing: The use of freezing to augment stratification. *Florida Journal of Educational Research*, 40 (1), 28-52.

Wildemuth, B., Krenshaw, L., Jenniches, W., & Harnes, J. C. (1997, Spring). What's everybody talking about?: Message functions and topics on electronic lists and newsgroups in information and library science. *Journal of Education for Library and Information Science*, 38, 137-56.

Chapters in Edited Books

Parshall, C. G., Harnes, J. C., Davey, T., & Pashley, P. J. (in press). Innovative item types for computerized testing. In W. J. van der Linden & C. A. W. Glas (Eds.), *Computerized adaptive testing: Theory and practice*. (2nd ed.). New York: Springer.

Barron, A. E., Harnes, J. C., & Kemker, K. (2005, December). Technology as a classroom tool: Learning outcomes with laptop computers. In L. Hin & R. Subramaniam (Eds.), *Handbook of research on literacy in technology at the K-12 level* (pp. 271-286). Hershey, PA: IDEA Group.

Manuscripts in Preparation for Publication

Swerdzewski, P. J., Harnes, J. C., & Finney, S. J. (under review--accepted with revisions). Examinee motivation filtering: Two approaches to identifying data from low-motivated students in an applied assessment context. *Applied Measurement in Education*.

Swerdzewski, P. J., Harnes, J. C., & Finney, S. J. (under review). Skipping the test: Using evidence to inform policy related to students who avoid taking low-stakes assessments in college. *Journal of General Education*.

Harnes, J. C., Barry, C. L., France, M. K., & Kaliski, P. K. *Are they really more memorable? Implications of innovative items for test security*. Manuscript in preparation for publication.

Harnes, J. C., Parshall, C. G., Rendina-Gobioff, G., Jones, P. K. *Integrating usability methods into the CBT development process: Case study of a technology literacy assessment*. Manuscript in preparation for publication.

Conference Papers and Presentations

Barry, C. L., Kaliski, P. K., & Harnes, J. C. (2008, October). *Does media inclusion affect the memorability of computer based test items?* Paper presented at the annual meeting of the Northeastern Educational Research Association, Rocky Hill, CT.

Mulrooney, M., & Harnes, J. C. (2008, September). *Assessing students' "appreciation" of the arts and humanities*. Paper presented at the annual meeting of the Association for General and Liberal Studies, Asheville, NC.

Wendt, A., Harnes, J. C., Wise, S. L., & Jones, A. T. (2008, March). *Development and evaluation of innovative test items for a computerized nursing licensure exam*. Paper presented at the annual meeting of the American Educational Research Association, New York, NY.

- Parshall, C. G., & Harnes, J. C. (2008, March). *Stages in designing innovative item types – A taxonomy, test development issues, and item templates*. Presentation at the annual meeting of the Association of Test Publishers, Dallas, TX.
- Harnes, J. C., Kaliski, P. K., & Barry, C. L. (2007, November). *Are they really more memorable? Implications of innovative items for test security*. Paper presented at the annual meeting of the Florida Educational Research Association, Tampa, FL.
- Harnes, J. C. & Miller, B. J. (2007, October). *What do college students think about general education and assessment?* Paper presented at the annual meeting of the Northeastern Educational Research Association, Rocky Hill, CT.
- Jones, A. T., Barry, C. L., Harnes, J. C., & Miller, B. J. (2007, October). *Developing a fine arts general education assessment tool*. Paper presented at the annual meeting of the Northeastern Educational Research Association, Rocky Hill, CT.
- Swerdzewski, P. J., Finney, S. J., and Harnes, J. C. (2007, October). *Examinee motivation in low-stakes testing: Two approaches to identifying data from low-motivated students in an applied assessment context*. Paper presented at the annual meeting of the Northeastern Educational Research Association, Rocky Hill, CT.
- Swerdzewski, P. J., Finney, S. J. & Harnes, J. C. (2007, October). *Skipping the test: The phenomenon of test avoidant students in a low-stakes assessment environment*. Paper presented at the annual meeting of the Northeastern Educational Research Association, Rocky Hill, CT.
- Hoffman, D., & Harnes, J. C. (2007, April). *Usability evaluation for computer-based testing software: Comparing method effects on information acquisition*. Paper presented at the annual meeting of the National Council on Measurement in Education, Chicago, IL.
- Joe, J. N., Harnes, J. C., & Barry, C. L. (2007, April). *General education outcomes assessment within the arts and humanities: A qualitative approach to developing objectives*. Paper presented at the annual meeting of the American Educational Research Association, Chicago, IL.
- Barron, A. E., Hohlfeld, T., Ritzhaupt, A., Kemker, K., & Harnes, J. C. (2007, April). *System for accountability and rigor survey: The status quo of technology integration in Florida schools*. Paper presented at the annual meeting of the American Educational Research Association, Chicago, IL.
- Swerdzewski, P. J., Dainis, A. M., Finney, S. J., & Harnes, J. C. (2007, April). *Skipping the test: Using evidence to inform policy related to those students who avoid taking low-stakes assessments in college*. Poster presented at the annual meeting of the National Council on Measurement in Education, Chicago, IL.
- Dainis, A. M., Swerdzewski, P. J., & Harnes, J. C. (2007, April). *The effect of innovative item placement on computer-based test motivation and performance*. Poster presented at the annual meeting of the National Council on Measurement in Education, Chicago, IL.
- Harnes, J. C., Barron, A. E., & Kemker, K. (2007, March). *Development and implementation of an online tool to assess teacher technology skills*. Paper presented at the annual international conference of the Society for Information Technology & Teacher Education, San Antonio, TX.

- Harmes, J. C., & Parshall, C. G. (2007, February). *Development and evaluation of an innovative computer-based assessment*. Poster presented at the annual meeting of the Association of Test Publishers, Palm Springs, CA.
- Dainis, A., Swerdzewski, P., & Harmes, J. C. (2007, February). *The effect of innovative item placement on performance and response time in a low-stakes CBT*. Poster presented at the annual meeting of the Association of Test Publishers, Palm Springs, CA.
- Barron, A. E., Hohlfeld, T., Ritzhaupt, A., Kemker, K., & Harmes, J. C. (2007, February). *Survey of technology in Florida schools*. Paper presented at the annual meeting of the Eastern Educational Research Association, Clearwater, FL.
- Kemker, K., Barron, A. E., & Harmes, J. C. (2006, July). *Inventory for Teacher Technology Skills: Assessing basic skills*. Paper presented at the annual meeting of the National Educational Computing Conference, San Diego, CA.
- Kong, X. J., Wise, S. L., Harmes, J. C., & Yang, S. (2006, April). *Motivational effects of praise in response-time feedback: A follow-up study of the effort-monitoring CBT*. Paper presented at the annual meeting of the National Council on Measurement in Education, San Francisco, CA.
- Parshall, C. G., Harmes, J. C., & Wise, S. L. (2006, February). *Developing innovative assessments across a continuum: Discrete items, situated tasks, and simulated environments*. Presentation at the annual meeting of the Association of Test Publishers, Orlando, FL.
- Harmes, J. C. & Parshall, C. G. (2005, November). *Situated tasks and simulated environments: A look into the future for innovative computerized assessment*. Paper presented at the annual meeting of the Florida Educational Research Association, Miami, FL.
- Harmes, J. C., Parshall, C. G., & Wise, S. L. (2005, November). *Veridicality in computer-based testing: Complexity, interactivity, and fidelity*. Paper presented at the annual meeting of the Florida Educational Research Association, Miami, FL.
- Kemker, K., Barron, A. E., & Harmes, J. C. (2005, April) *Laptop computers in the elementary classroom: A case study of authentic tasks with at-risk students.* Paper presented at the annual meeting of the American Educational Research Association, Montreal, Canada.
- Harmes, J. C., Parshall, C. G., Rendina-Gobioff, G., Jones, P. K., Githens, M., & Dennard, A. (2004, November). *Integrating usability methods into the CBT development process: Case study of a technology literacy assessment*. Paper presented at the annual meeting of the Florida Educational Research Association, Tampa, FL.
- Jones, P., Harmes, J. C., & Parshall, C. G. (2004, April). *Audio-Enhanced Internet courses: Are they worth the investment?* Paper presented at the annual meeting of the American Educational Research Association, San Diego, CA.
- Jones, P., Harmes, J. C., & Parshall, C. G. (2003, November). *The impact of affect and achievement in audio-enhanced Internet courses*. Paper presented at the annual meeting of the Florida Educational Research Association, Orlando, FL.
- Harmes, J. C., Kemker, K., & Pelham, S. (2003, October). *Development and implementation of Florida's STaR Chart and Technology Resources Survey*. Paper presented at the annual meeting of the Association for Educational Communications and Technology, Anaheim, CA.

- Harmes, J. C., Parshall, C. G., & Kromrey, J. K. (2003, April). *Recalibration of IRT item parameters in CAT: Sparse data matrices and missing data treatments*. Paper presented at the annual meeting of the National Council on Measurement in Education, Chicago, IL.
- Parshall, C., Harmes, C., & Jones, P. (2003, March). *Use of audio in Internet courses: The impact on affect and achievement*. Presentation at the Symposium on 21st Century Teaching Technologies: A Continuing Series of Explorations. Tampa, FL.
- Jones, P. K., Parshall, C. G., & Harmes, J. C. (2003, February). *Audio-enhanced Internet courses: The impact on affect and achievement*. Paper presented at the annual meeting of the Eastern Educational Research Association, Hilton Head, SC.
- Harmes, J. C., Parshall, C. G., & Kromrey, J. K. (2002, November). *Sparse data matrices and missing data treatment in IRT: An empirical investigation of CAT item parameter estimation*. Paper presented at the annual meeting of the Florida Educational Research Association, Gainesville, FL.
- Barron, A. E., Kemker, K., Harmes, J. C., & Kalaydjian, K. (2002, April). *Working toward national technology standards: Large-scale research study on technology use in K-12 schools*. Paper presented at the annual meeting of the American Educational Research Association, New Orleans, LA.
- Kalaydjian, K., Kemker, K., Harmes, J. C., & Barron, A. E. (2002, February). *Using the NETS as a framework for evaluating technology integration in Florida schools*. Paper presented at the annual meeting of the Eastern Educational Research Association, Sarasota, FL.
- Harmes, J. C., Barron, A. E., Kalaydjian, K., & Caulfield, K. (2002, February). *Usability testing for instructional software: Development of procedures and instruments*. Paper presented at the annual meeting of the Eastern Educational Research Association, Sarasota, FL.
- Calandra, B., Kemker, K., Barron, A., & Harmes, C. (2001, October). *Developing web-based multimedia for an educational web-site: The use of Quicktime audio, video, VR technology and JavaScript-based interactivity*. Paper presented at WebNET 2001, Orlando, FL.
- Kemker, K., Harmes, C., Kalaydjian, K., and Barron, A. E. (2001, November). *Assessment of technology integration and issues in Florida*. Paper presented at the annual meeting of the Florida Educational Research Association, Marco Island, FL.
- Harmes, J. C., Kromrey, J. D., & Parshall, C. G. (2001, November). *Item parameter estimation in computerized adaptive tests: Application of missing data treatments to overcome the effects of sparse data conditions*. Paper presented at the annual meeting of the Florida Educational Research Association, Marco Island, FL.
- Parshall, C. G., Kromrey, J. D., Harmes, J. C., & Sentovich, C. (2001, April). *Nearest neighbors, simple strata, and probabilistic parameters: An empirical comparison of methods for item exposure control in CAT*. Paper presented at the annual meeting of the National Council on Measurement in Education, Seattle, WA.
- Harmes, J. C. & Barron, A. E. (2001, March). *Assessing distance learning tools and techniques: A case study*. Paper presented at the 12th international conference of the Society for Information Technology in Teacher Education, Orlando, FL.

- Kemker, K., Kalaydjian, K., Barron, A. E., & Harmes, J. C. (2001, March). *Working toward national technology standards: Teacher use of computers in the classroom*. Paper presented at the 12th international conference of the Society for Information Technology in Teacher Education, Orlando, FL.
- Harmes, J. C. & Parshall, C. G. (2000, November). *An iterative process for computerized test development: Integrating usability methods*. Paper presented at the annual meeting of the Florida Educational Research Association, Tallahassee, FL.
- Kromrey, J. D., Parshall, C. G., & Harmes, J. C. (2000, November). *Variations on stratification: The use of item freezing to augment the Stratified-a exposure control method*. Paper presented at the annual meeting of the Florida Educational Research Association, Tallahassee, FL.
- Harmes, J. C., Barron, A. E., Kemker, K. & Kalaydjian, K. (2000, November). *Working toward national educational technology standards*. Paper presented at the annual meeting of the Florida Educational Research Association, Tallahassee, FL.
- Barron, A., & Harmes, C. (2000, September). *Creating instructional websites*. Presentation at ASTD TechKnowledge 2000, Indianapolis, IN.
- Harmes, J. C. & Barron, A. E. (2000, July). *VITAL: Case studies of a successful faculty support system*. Invited presentation at Syllabus 2000, San Jose, CA.
- Parshall, C. G., Kromrey, J. D., & Harmes, J. C. (2000, June). *Variations on stratification methods for item exposure control: Effects of suspending selection and sharpening strata*. Paper presented at the annual meeting of the Psychometric Society, Vancouver, Canada.
- Barron, A. E., Harmes, J. C., & Siekmann, S. (2000, March). *VITAL: Case studies of a successful faculty support system*. Presentation at the Syllabus Regional Conference, Orlando, FL.
- Harmes, J. C. & Pable, J. (1999, October). *Improving FCAT scores: Training and resources*. Presentation at the 27th Annual Florida Association for Media in Education conference, Orlando, FL.
- Barron, A. E. & Harmes, J. C. (1999, October). *VITAL: A successful faculty support system*. Paper presented at the International Conference on Technology and Education, Tampa, FL.
- Harmes, J. C. & Kemker, K. J. (1999, October). *Using JavaScript and LiveStage to create online assessments*. Paper presented at the International Conference on Technology and Education, Tampa, FL.
- Harmes, J. C. & Kemker, K. J. (1999, October). *Adding interactivity to web-based instruction*. Paper presented at the International Conference on Technology and Education, Tampa, FL.

Technical Reports

- Harmes, J. C. (2005, January). *Technology resources and uses in Florida: 2004 Overview*. Final report submitted to the Florida Department of Education, Office of Educational Technology.

Harmes, J. C., Parshall, C.G., Rendina-Gobioff, G., & Jones, P. (2004, December). *Florida Teacher Technology Literacy Inventory: Development and evaluation*. Final report submitted to the Florida Department of Education, Office of Educational Technology.

Harmes, J. C., Rendina-Gobioff, G., & Kemker, K. (2004, December). *Technology resources and uses in Florida: 2003 Overview*. Final report submitted to the Florida Department of Education, Office of Educational Technology.

Laptops for Learning Task Force. (2004, March). *Laptops for learning: Final report and recommendations of the Laptops for Learning Task Force*. Available: <http://etc.usf.edu/L4L/>

Parshall, C. G., Kromrey, J. D., Harmes, J. C., & Sentovich, C. (2002). *New methods for item exposure and item selection in CAT ASVAB*. Final report submitted to the Defense Manpower Data Center, Monterey, CA.

Harmes, J. C., Parshall, C. G., & Kromrey, J. D. (2001). *Online item parameter recalibration: Application of missing data treatments to overcome the effects of sparse data conditions in a computerized adaptive version of the MCAT*. Final report submitted to the Association of American Medical Colleges, Graduate Summer Research Program.

Colloquia, Workshops, and Seminars

Invited Panelist for Graduate Student Issues Council session, *Preparing for the Job Search/Interview Process*. Presented at the annual meeting of the Northeastern Educational Research Association, Rocky Hill, CT, October 2008.

Invited Panelist for Division D Graduate Student Seminar, *Becoming a Professional: From Graduate Student to Colleague*. Presented at the annual meeting of the American Educational Research Association, Chicago, IL, April 2007.

Parshall, C. G., & Harmes, J. C. (2005, February). *Tools for improving the CBT user-interface: Paper prototyping, expert review, and user testing*. Workshop presented at the annual meeting of the Association of Test Publishers, Scottsdale, AZ.

Harmes, J. C. (2003, July). *Speaking the language of measurement*. Invited keynote presentation at the Florida Technology Literacy Workshop, Tampa, FL.

Kemker, K. J. & Harmes, J. C. (2000, March). *Unleashing the power of QuickTime*. Workshop presented at the Syllabus Regional Conference, Orlando, FL.

WebCT One-Day Workshop

- Co-Facilitated: Fall 1998
- Facilitated: Spring 1999

WebCT Four-Day Workshop

- Co-Facilitated: Fall 1998, Spring 1999, Fall 1999, Spring 2000

WebCT One-Week Intensive Workshop

- Co-Facilitated: June 1999

Enhancing Web Pages with JavaScript

- Facilitated: once per semester from July 1999-January 2002

Beginning HTML

- Co-Facilitated one day workshop: Spring 1999, Spring 2000

Introduction to PowerPoint

- Facilitated one day workshop: March 1999

Contributions to Multimedia Products

Florida Center for Instructional Technology. (1999-2002). *A teacher's guide to the Holocaust*. Available: <http://fcit.usf.edu/holocaust/>

- Contributed JavaScript programming
- Edited and revised assessment tools

Florida Center for Instructional Technology. (2002). *Creating school websites*.

- Created content for several sections and edited all others

Florida Center for Instructional Technology. (1999). *FCAT reading 4 staff development tool*. Available: <http://fcit.usf.edu/fcat/>

- Instructional design and development of story mapping section

Professional Affiliations

American Educational Research Association

- Division D, Measurement and Research Methodology
- Special Interest Group on Mixed Methods Research
- Special Interest Group on Professional Licensure and Certification
- Special Interest Group on Instructional Technology

Association for the Advancement of Computing in Education

Association for Educational Communications and Technology

Florida Educational Research Association

National Council on Measurement in Education

Performance Testing Council

Professional Service Activities

Editorial Board Member, *Practical Assessment, Research, and Evaluation*

Manuscript Reviewer, *Journal of Experimental Education*

Book Reviewer, *Guilford Press*

Program Committee Member, *Association of Test Publishers*

Performance Testing Council

- Chaired a committee to create a comprehensive bibliography on performance testing

Proposal reviewer, *American Educational Research Association, Division D and Instructional Technology Special Interest Group*

Proposal reviewer, *Association of Test Publishers*

Proposal reviewer, *National Council on Measurement in Education*

Proposal reviewer, *Florida Educational Research Association*

Manuscript reviewer, *Florida Journal of Educational Research*

College Council, College of Education, University of South Florida
Graduate Student Representative, 2000-2001

Instructional Technology Student Association, University of South Florida
Founding president, 1999-2001

Special Libraries Association, UNC-Chapel Hill
Vice-president of the student chapter, 1994-95

Graduate Student Senate, Ohio University
Economics Department Representative, 1991-92

Professional Development Activities

Mixed Data Analysis

Two day course at the annual meeting of the American Educational Research Association, March, 2008

Standard Setting

Half-day workshop at the annual meeting of the Association of Test Publishers, March, 2008

Getting Published: A Panel of Journal Editors and Emerging Scholars

Half-day course at the annual meeting of the American Educational Research Association, April, 2007

Helping Doctoral Researchers Write with Authority

Half-day course at the annual meeting of the American Educational Research Association, April, 2007

Qualitative Research for Quantitative Researchers

Half-day course at the annual meeting of the American Educational Research Association, April, 2007

What's Next? Issues facing Mature CBT Programs

Workshop at the annual meeting of the Association of Test Publishers, February, 2007

Using Technology to Improve Test Publishing and Scoring

Workshop at the annual meeting of the Association of Test Publishers, February, 2007

Job Task Analysis for Performance Assessment

Half-day workshop at the meeting of the Performance Testing Council, September, 2006

Attended the following workshops offered by the Center for Instructional Technology, :

Podcasting (1 day), Summer 2008

Video Editing: The Language of Video (6-hour), Summer 2007

Respondus (2-hour), Spring 2007

Websurveyor (2, half-day sessions), Spring 2007
Digital Video A-Z (half-day), Fall 2006

Attended the following workshops offered by the Center for Faculty Innovation:

What Makes Great Teachers Great (half-day), Fall 2007
Evaluating Classroom Presentations (half-day), Fall 2007
Balancing your 3-Legged Stool (half-day), Spring 2006

Attended the following workshops offered by the other groups at JMU:

Qualtrics (half-day), Summer 2008
Grant Accounting & Overview (half-day), Spring 2006

Rasch Measurement Workshop (2-day)
University of Illinois at Chicago, Fall 2004

Research in Progress

- Analysis of cognitive processing and memorability of innovative items
- Mixed methods research applications for assessment practice
- Refinement of a taxonomy for innovative items and criteria for implementation of various innovations in computer-based testing
- Development of a model for integrating usability methods into the construction process of computer-based assessments
- Investigation of the effects of layout and design in computer-based assessments
- Development of a system of standards and instruments for assessing technology literacy