

Karen Samuelsen
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University of Georgia
Athens, GA 30606
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Education

University of Maryland	Measurement, Statistics & Evaluation	Ph.D., 2005
University of Massachusetts	Science Education	M.Ed., 1989
Mass. Inst. of Technology	Mechanical Engineering	B.S., 1981

Employment History

2006-Present	Assistant Professor in the Department of Educational Psychology and Instructional Technology; University of Georgia, Athens, GA
2005-2006	Research Assistant Professor in the Department of Measurement, Statistics & Evaluation and Assistant Director of the Center for Integrated Latent Variable Research (CILVR); University of Maryland, College Park, MD
2004-2005	Assistant Research Faculty Member and Project Manager in the Center for the Study of Assessment, Validity and Evaluation; University of Maryland, College Park, MD
2001-2005	Instructor and Advisory Board Member for the Graduate Certificate Program in Large-Scale Assessment; Sponsored by the National Center for Education Statistics, Washington, DC
2000-2005	Graduate Assistant in the Department of Measurement, Statistics & Evaluation; University of Maryland, College Park, MD
1999-2000	Educational Consultant working on a science curriculum project sponsored by Lucent Technologies Foundation
1998-1999	Graduate Assistant in the Center for Women in Science & Engineering; University of Washington, Seattle, WA
1989-1997	High School Science and Mathematics Teacher; Lawrence, Concord-Carlisle, and Ayer, Massachusetts – Certification in high school physics

Publications

Edited Volumes

Hancock, G., & **Samuelsen, K.** (2008). *Mixture models in latent variable research*. Greenwich, CT: Information Age Publishing, Inc.

Research Papers in Refereed Journals

Lissitz, R. & **Samuelsen, K.** (2007). A suggested change in terminology and emphasis regarding validity and education. *Educational Researcher*, 36, 437-448.

Lissitz, R. & **Samuelsen, K.** (2007). Further clarification regarding validity and education. *Educational Researcher*, 36, 482-484.

Samuelsen, K. (In Preparation). DIF detection when data are complex

Samuelsen, K., & Bradshaw, L. (In Preparation). An NCME Instructional module on creating and validating Likert scales.

Research in Edited Volumes

Samuelsen, K., & Dayton, C. M. (Expected Publication, 2009). Latent class analysis. In G. Hancock & R. Mueller (Eds.) *Quantitative Methods in the Social and Behavioral Sciences: A Guide for Researchers and Reviewers*. Mahwah, NJ: Erlbaum

Bandalos, D. L., Davis, S., Ferster, A., & **Samuelsen, K.** (Expected Publication, 2009). Validity arguments for high-stakes testing and accountability systems. In J. Bovaird, C. Buckendahl, and K. Geissinger (Eds.) *High Stakes Testing in Education: Science and Practice in K-12 Settings*. APA Books.

Samuelsen, K. (2008). Examining differential item function from a latent class perspective. In G. Hancock & K. Samuelsen (Eds.) *Mixture Models in Latent Variable Research*. Greenwich, CT: Information Age Publishing, Inc.

Brainard, S., & **Samuelsen, K.** (Expected Publication, 2008). The Ethics of Mentoring in Engineering. In *Responsible Conduct of Research for Engineers*.

Technical Reports

Samuelsen, K. (2001). The Relationship between the Evidence-centered Assessment Process Used in Teaching and Learning and Research's ECD Approach. Funded by the Educational Testing Service, this work resulted in an internal ETS report.

Other

Samuelsen, K. (2005). *Examining differential item functioning using a latent class approach*. Unpublished Dissertation, University of Maryland.

Metz, S.S., & **Samuelsen, K. M.** (2001). Making the Connection: Presenter's Guide. Also four curriculum modules. Funded by Lucent Technologies Foundation and published by Women in Engineering Programs & Advocated Network (WEPAN).

Presentations

Test Success! (October, 2008). Laine Bradshaw & **Karen Samuelsen**, University of Georgia. Presented at the annual meeting of the Georgia Council of Teachers of Mathematics.

The credibility interval method for the detection of DIF within a Bayesian framework (2008). **Karen Samuelsen** & Laine Bradshaw, University of Georgia. To be presented at the 2008 meeting of the National Council on Measurement in Education (NCME).

Differential Item Function from a Latent Class Perspective (2006). **Karen Samuelsen**, University of Maryland. Presented at the first annual conference of the Center for Integrated Latent Variable Research, at the University of Maryland, College Park.

Making Sure Students Receive Appropriate Accommodations on Academic Tests (2004). **Karen Samuelsen**, University of Maryland. U.S. Department of Education, Office of English Language Acquisition, Language Enhancement, and Academic Achievement for Limited English Proficient Students (OELA) Summit.

Determining Testing Accommodations for ESOL Students on Statewide Assessments: Challenges and Solutions (2004). **Karen Samuelsen**, University of Maryland & Therese Carr, South Carolina Department of Education. Carolina TESOL Conference.

Evidentiary Logic in the Assessment of Diverse Learners: An Initial Report of the Valid Assessment of English Language Learners (VAELL) Project (2003). Rebecca Kopriva, **Karen Samuelsen**, David Wiley & Phoebe Winter, University of Maryland. Presented at the annual meeting of the National Council on Measurement in Education (NCME).

Analyzing the structure of binary test responses using an optimal scaling approach (2002). James S. Roberts & **Karen M. Samuelsen**, University of Maryland. Presented at the annual meeting of the National Council on Measurement in Education (NCME).

Courses & Training Sessions Taught

University of Georgia

ERSH 6300 – Applied Statistical Methods in Education

ERSH 6600 – Applied Educational Assessment

ERSH 7600 – Construction of Educational Measuring Instruments

ERSH 8310 – Applied Analysis of Variance Methods in Education

ERSH 8610 – Educational Measurement Theory

University of Maryland, Department of Measurement, Statistics and Evaluation:

EDMS 410 – Classroom Assessment

EDMS 451 – Introduction to Educational Statistics

EDMS 635 – Computer-based Measurement

EDMS 645 – Quantitative Research Methods I

EDMS 657 – Factor Analysis

University of Maryland, Center for Teaching Excellence:

Evaluating Students' Performance in the Classroom

Graduate Certificate Program Modules

Statistics Review

Validity

Reliability

Professional Activities and Awards

Awards

Distinguished Teaching Assistant (2001-2002) – Awarded annually by the Center for Teaching Excellence, Undergraduate Studies and the Graduate School of the University of Maryland.

ITEA Scholarship (2000-2001) – Awarded by the International Testing and Evaluation Association.

Distinguished Teaching Assistant (2000-2001) – Awarded annually by the Center for Teaching Excellence, Undergraduate Studies and the Graduate School of the University of Maryland

Service, National

Ad hoc reviewer for *Educational Assessment* (2008)

Ad hoc reviewer for *Journal of Educational Measurement* (2007-Present)

Ad hoc reviewer for *American Education Research Journal* (2007-Present)

Ad hoc reviewer for *Psychological Assessment* (2007-Present)

Ad hoc reviewer for *Journal of Computing in Higher Education* (2007)

Textbook reviewer for Routledge (Taylor and Francis)

Proposal reviewer, annual meeting of the American Psychological Association (2007)

Proposal reviewer, annual meeting of NCME (2007-Present)

Service, Departmental and College-wide

EPIT Faculty Awards Committee, University of Georgia (2008)

Science Education Faculty Search Committee, University of Georgia (2008)

EDMS Ad Hoc Committee on Distance Learning (2005-2006) – Chair

EDMS Student Affairs Committee (2005-2006)

Committee to evaluate the EDMS Department (2001- 2002) – Graduate Representative

Committee to evaluate the EDMS Department Chair (2001- 2002) – Graduate Representative

Competitively Funded Projects

2005 Developing New Types of Structured Performance Tasks: Improving Large Scale Assessment Methods for Measuring Middle School Science Learning across a Diverse Population (NSF grant #0454740 – funded) – Co-Principal Investigator

Collaborators & Other Affiliations

Collaborators and Co-Editors

Atwood, C.	University of Georgia
Bandalos, D.	University of Georgia
Brandshaw, L.	University of Georgia
Brainard, S.	University of Washington
Dayton, C. M.	University of Maryland
Hancock, G. R.	University of Maryland
Kopriva, R.	University of Maryland
Lissitz, R. W.	University of Maryland
Metz, S.M.	Women in Engineering Programs & Advocated Network
Mislevy, R. J.	University of Maryland
Roberts, J. S.	Georgia Tech University

Graduate and Postdoctoral Advisors

Graduate Advisor: Robert W. Lissitz, University of Maryland
Dissertation Advisor: C. Mitchell Dayton, University of Maryland