

Patrick M. Irwin

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EDUCATION:

- Ph.D. 2006, Quantitative, Qualitative, and Psychometric Methods, University of Nebraska – Lincoln
Advisor: James C. Impara
Dissertation title: Alternative Examinee-Centered Standard Setting Strategy
- M.A. 1999, Quantitative and Qualitative Methods in Education,
University of Nebraska - Lincoln
- B.A. 1997, Psychology, California State University Fullerton
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PROFESSIONAL EXPERIENCE:

- 6/05 – present Research Associate (Psychometrician II), Center for Educational Testing and Evaluation, University of Kansas.
Responsibilities: Primary responsibilities include the development and coordination in support of the Kansas assessment program, serving as the project manager for the Reading, Mathematics, Science, and Social Studies assessments. Duties include item selection and test form construction, analyzing data, performing validation (reliability/validity) studies, score reporting and results dissemination, writing technical reports, state and federal reporting, as well as developing performance standards and implementing standard-setting (cut score) studies. Other tasks include development of fully customized formative assessment system.
- 6/99 – 6/2005 Research Associate, Planning, Evaluation, and Information Services, Millard Public School.
Responsibilities: Constructing student assessments in reading, writing, mathematics, science, and social studies for a K-12 school system, analyzing data, writing technical reports, program evaluations, state and federal reporting, research and standard settings.
- 8/97 – 6/99 Graduate Assistant, Buros Institute for Assessment Consultation and Outreach, University of Nebraska – Lincoln.
Responsibilities: Assisted with psychometric projects: design, data analysis, report writing, presentations, alignment studies and standard settings for school districts and state department of education.

PUBLICATIONS:

1. Plake, B., Impara, J. & Irwin, P. (2000). Consistency of Angoff-based Predictions of Item Performance: Evidence of Technical quality of Results from the Angoff Standard Setting Method. Journal of Educational Measurement 37(4), 347-355.
2. Irwin, P., Plake, B., & Impara, J. (2000). Validity of Item Performance Estimates from an Angoff Standard Setting Study. (ERIC Clearinghouse on Assessment and Evaluation TM031520).
3. Buckendahl, C., Plake, B., Impara, J., & Irwin, P. (2000). Alignment of Standardized Achievement Tests to State Content Standards: A Comparison of Publishers' and Teachers' Perspectives. (ERIC Clearinghouse on Assessment and Evaluation TM031249).
4. Buckendahl, C., Impara, J., Giraud, G., & Irwin, P. (2003). The Consequences of Judges Making Advanced Estimates of Impact on a Cut Score. (ERIC Clearinghouse on Assessment and Evaluation TM031248).
5. Plake, B., Impara, J. & Irwin, P. (1999). Validation of Angoff-based Predictions of Item Performance. (ERIC Clearinghouse on Assessment and Evaluation TM029717).

TECHNICAL AND CONSULTING REPORTS:

1. Irwin, P.M., Kingston, N.M., Skorupski, W.P., Glasnapp, D.R., & Poggio, J.P. (2009). Technical Manual for the Kansas Assessments in Science.
2. Irwin, P.M., Kingston, N.M., Skorupski, W.P., Glasnapp, D.R., & Poggio, J.P. (2009). Technical Manual for the Kansas Assessments in History and Government.
3. Irwin, P.M., Kingston, N.M., Glasnapp, D.R., & Poggio, J.P. (2008). Technical Manual for the Kansas Assessments of Modified Measures (KAMM) and Kansas Alternate Assessments (KAA) in Science.
4. Irwin, P.M., Poggio, A.J., Yang, X., Glasnapp, D.R., & Poggio, J.P. (2007). Technical Manual for the Kansas Assessments in Reading and Mathematics. Submitted to the Kansas State Department of Education.
5. Irwin, P.M., Poggio, A.J., Yang, X., Glasnapp, D.R., & Poggio, J.P. (2007). Technical Manual for the Kansas Assessments of Modified Measures in Reading and Mathematics. Submitted to the Kansas State Department of Education.
6. Buckendahl, C., Nebelsick-Gullett, L., Bandalos, D., Benson, J., & Irwin, P. (December, 2003). Setting achievement levels for PACT Science, PACT Social Studies, and select EOCEP examinations: Final Report. South Carolina Department of Education.

7. Plake, B., Impara, J., Buckendahl, C., Irwin, P., & Ferdous, A. (June, 2003). Standard setting workshops for the Dakota STEP Tests in Reading and Mathematics for grades 3-8, and 11: Final Report. South Dakota Department of Education and Cultural Affairs.
8. Plake, B., Impara, J., Irwin, P., & Buckendahl, C. (June, 1999). Alignment of Selected Nationally Normed, Standardized Achievement Tests to Nebraska's High School Reading/Writing and Mathematics Content Standards: Final Report. Nebraska State Department of Education.
9. Plake, B., Impara, J., Irwin, P., & Buckendahl, C. (April, 1999). Alignment of Selected Nationally Normed, Standardized Achievement Tests to Nebraska's Content Standards at Grade 8: Final Report. Nebraska Department of Education.
10. Plake, B., Impara, J., Irwin, P., Buckendahl, C., Giraud, G., & Coleman, M. (January, 1999). Alignment of Selected Nationally Normed, Standardized Achievement Tests to Nebraska's Content Standards at Grade 4: Final Report. Nebraska State Department of Education.
11. Spies, R., Buckendahl, C., Plake, B., Impara, J., Giraud, G., & Irwin, P. (September, 1998). The Standards Assessment Project: A Study to Evaluate the Feasibility of Measuring Nebraska's Academic Content Standards Using Districts' Current Assessments. Nebraska State Department of Education.

PRESENTATIONS:

1. Irwin, P.M., Buckendahl, C., & Poggio, A.J. (2007). Examinee-centered standard setting: An alternative approach. Paper presented at the annual meeting of the National Council on Measurement in Education, Chicago, IL.
2. Irwin, P.M. & Poggio, A.J. (2007). Using Technology to Assist Students Overcome Anxiety About Computerized Testing. Paper presented at the annual meeting of the National Council on Measurement in Education, Chicago, IL.
3. Templin, J., Irwin, P.M., Poggio, A.J., & Henson, R. (2007). Latent class model based approaches to standard setting. Paper presented at the annual meeting of the National Council on Measurement in Education, Chicago, IL.
4. Poggio, A.J. & Irwin, P.M. (2007). The utility and impact of online computerized formative and early warning assessments on instruction and student performance. Paper presented at the annual meeting of the National Council on Measurement in Education, Chicago, IL.
5. Irwin, P. & Crawford, J. (April, 2002). Bookmark standard setting vs. the Angoff method: a comparison of results. Paper presented at the annual meeting of the National Council on Measurement in Education. New Orleans, LA.

6. Crawford, J. & Irwin, P. (April, 2002). Sources of variation in analytical writing assessment data: scoring by commercial companies. Paper presented at the annual meeting of the National Council on Measurement in Education. New Orleans, LA.
7. Crawford, J. & Irwin, P. (April, 2002). Development and validation of climate surveys designed to aid school improvement. Paper presented at the annual meeting of the American Educational Research Association. New Orleans, LA.
8. Irwin, P., & Crawford, J. (June, 2000). Effects of different prompts, assessment conditions, and students, grade levels on writing performance. Paper presented at the Large Scale Assessment Conference. Snowbird, UT.
9. Crawford, J., & Irwin, P. (June, 2000). Challenges in public schools: Setting empirical standards for determining student competencies. Paper presented at the Large Scale Assessment Conference. Snowbird, UT.
10. Buckendahl, C., Plake, B., Impara, J., & Irwin, P. (April, 2000). Alignment of standardized achievement tests to state content standards: A comparison of publishers' and teachers' perspectives. Paper presented at the annual meeting of the National Council on Measurement in Education. New Orleans, LA.
11. Buckendahl, C., Impara, J., Giraud, G., & Irwin, P. (April, 2000). The consequences of judges making advance estimates of impact. Paper presented at the annual meeting of the American Educational Research Association. New Orleans, LA.
12. Crawford, J., & Irwin, P. (April, 2000). A partnership of public schools and higher education: Assessment development, standard setting, and school policy. Paper presented at the annual meeting of the American Educational Research Association. New Orleans, LA.
13. Irwin, P., & Impara, J., (October, 2000). Using optical scanning forms to collect judges' ratings in Angoff standard setting study. Paper presented at the annual meeting of the Mid-Western Educational Research Association. Chicago, IL.
14. Buckendahl, C., Plake, B., Impara, J., Spies, R., Giraud, G., & Irwin, P. (October, 1999). The feasibility of using multiple assessments to measure student performance on state content standards. Paper presented at the annual meeting of the Mid-Western Educational Research Association. Chicago, IL.

AREAS OF INTEREST:

Along with the large scale test development activities, my interests include planning and conducting both basic and applied research and evaluation investigations into a variety of assessment issues such as consequential and impact validation, test bias, evaluation of trends, and the impact of testing on schooling, public perception, teaching practices, instructional design and learning outcomes. My primary interests are in applications of statistical and measurement methodologies for solving practical education problems, including issues related to large-scale assessment, equating, the implementation and evaluation of innovative assessment designs, including computer-based testing, and the use of achievement information for making decisions about students.

PROFESSIONAL MEMBERSHIPS:

American Educational Research Association (AERA)
National Council for Measurement in Education (NCME)

COMPUTER SKILLS: (statistical and psychometric software packages)

SPSS, SAS, Multilog-MG, Bilog-MG, Parscale, LISREL, Excel, ITEMAN
