

VOLUME XLIX

NUMBER 3

FALL 2003

Measurement for the Social Sciences

The Alberta Journal of Educational Research

Published in Spring, Summer, Fall, and Winter by the Faculty of Education, University of Alberta

ajer is a quarterly journal devoted to the dissemination, criticism, interpretation, and encouragement of all forms of systematic inquiry into education and fields related to or associated with education.

Editor: George H. Buck

Book Review Editor: Ingrid Johnston

Administrator: Joyce Hiller Editorial Assistant: Edie Peters

Consulting Editors

Jim Anderson

University of British Columbia

Anthony W. Bartley Lakehead University

Paul Begley

Ontario Institute for Studies in Education of the University of Toronto

Ardra L. Cole

Ontario Institute for Studies in Education of the University of Toronto

Sharon M. Haggerty

University of Western Ontario

Susan Hill

University of South Australia

Ingrid Johnston

University of Alberta

Sandra G. Kouritzin

University of Manitoba

Pauline Leonard

Louisiana Tech University

Dianne Looker

Acadia University

Xin Ma

University of Alberta

Technical Editor: Naomi Stinson Proofreader: Karen McFarlane Translator: Dorine Chalifoux

Richard Morehouse

Viterbo University, La Crosse, WI

Lorri Neilsen

Mount Saint Vincent University

Flora Ida Ortiz

University of California, Riverside

David Reid

Acadia University

Hans Smits

University of Calgary

Jeff Sugarman

Simon Fraser University

Jennifer Sumsion

Macquarie University

Kelleen Toohey

Simon Fraser University

Robert Wilson

Queen's University

Dean Wood

Alberta Learning

Jon C. Young

University of Manitoba

ajer gratefully acknowledges support from the Social Sciences and Humanities Research Council of Canada and the Alberta Advisory Committee for Educational Studies. We acknowledge the financial support of the Government of Canada, through the Publications Assistance Program (PAP), toward our mailing costs. PAP Registration No. 08236.

For subscription information see order form at the end of this issue.

Address all communications and manuscript submissions to:

The Alberta Journal of Educational Research

Office of the Dean

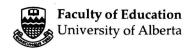
845 Education Centre South

University of Alberta

Edmonton AB T6G 2G5 Canada

Fax: (780) 492-0236; e-mail: ajer@ualberta.ca

URL:http//www.education.ualberta.ca/educ/journals/ajer.html



The Alberta Journal of Educational Research

Volume XLIX, Number 3, Fall 2003

Theme Issue Measurement for the Social Sciences: Classical Insights Into Modern Approaches

Ruth A. Childs	207	Introduction Measurement for the Social Sciences: Classical Insights into Modern Approaches
Roderick P. McDonald	212	Behavior Domains in Theory and in Practice
Randall D. Penfield	231	Applying the Breslow-Day Test of Trend in Odds Ratio Heterogeneity to the Analysis of Nonuniform DIF
Shizuhiko Nishisato	244	Total Information in Multivariate Data from Dual Scaling Perspectives
Richard G. Wolfe Jennifer L. Dunn	252	The Jackknife and Multilevel Modeling: A New Application of an Old Trick
André A. Rupp Bruno D. Zumbo	264	Which Model is Best? Robustness Properties to Justify Model Choice Among Unidimensional IRT Models under Item Parameter Drift
Christina van Barneveld	277	The Effects of Examinee Motivation on Multiple-Choice Item Parameter Estimates
W. Todd Rogers Mark J. Gierl Claudette Tardif Jie Lin Christina Rinaldi	290	Differential Validity and Utility of Successive and Simultaneous Approaches to the Development of Equivalent Achievement Tests in French and English

Single copies of this issue are available for purchase. Please see order form at back of this issue.

ISSN 0002-4805

ajer is indexed in the Canadian Education Index, Current Contents/Social and Behavioral Sciences, ERIC/Current Index to Journals in Education, Social Science Citation Index, Research Alert, Contents Pages in Education, and the e-psyche database; appropriate articles are abstracted in Educational Administration Abstracts, Educational Technology Abstracts, Family Abstracts, Language and Language Behavior Abstracts, Multicultural Education Abstracts, Psychological Abstracts, Research into Higher Education Abstracts, School Organization and Management Abstracts, Sociology of Education Abstracts, Special Education Needs Abstracts, Women's Studies Abstracts, and Technical Education and Training Abstracts.

Guidelines for Contributors

Submission of a manuscript to the *Alberta Journal of Educational Research* (ajer) implies, and is an undertaking on the part of the author(s), that neither the manuscript nor any substantially similar manuscript has been published, is in press, or is under consideration elsewhere. This is a condition for publication in ajer. Prior to publication, authors will assign their copyright to ajer by means of a standard form.

Format

Use a standard typeface and size such as Times New Roman 12 pt. and double-space throughout, including block quotations, references, and notes. Manuscripts are not to exceed 6,500 words excluding graphics. Please indicate the word count (text only) in the cover letter accompanying manuscripts. Provide an abstract of approximately 100 words either in a separate file or on a separate page. To ensure anonymity in the review process, the author's name and affiliation should appear only on the title page; the title alone heads the first page of the manuscript.

Style

ajer's editorial style conforms closely to the *Publication Manual of the American Psychological Association* (5th ed.). Manuscripts that do not conform may either be returned for adjustment, or editorial changes may be made. For spelling consult *Webster's New Collegiate Dictionary*. Spelling in quoted material must remain as in the original.

Referencing

Sources cited appear in parentheses after each reference (direct or otherwise), giving author's name (unless mentioned in text), year of publication, and page number(s) in the case of direct quotes. Enclose quotes of 40 or fewer words in double quotation marks in the text; indent quotes longer than 40 words in block format. Page numbers must be given.

List all sources alphabetically at the end of the manuscript under the heading *References* using the APA style.

Footnotes are not allowed, and the use of endnotes is discouraged; however, necessary brief explanatory notes, numbered consecutively and marked in the text with superscript numerals, may appear before the References under the heading *Notes*; citations in notes follow the same format as other references.

Graphics

Number tables and figures with Arabic numerals, and provide each on a separate page at the end of the manuscript. Prepare tables using tabs and without vertical lines. Figures, charts, and diagrams may be submitted electronically either in GIF or JPEG formats, or in camera-ready hard copy. Indicate placement of figures and tables in text, e.g., *Insert Figure 3 about here*.

Submitting

To help ensure an efficient review process, it is preferred that authors submit their manuscript and abstract electronically, either as e-mail attachments or as files on a high-density diskette. The preferred file formats are Microsoft Word for Windows and Microsoft Word for Macintosh. Rich Text Format (RTF) is also acceptable from either platform. If submitting a diskette, label it with originator's name, program used, and program version number.

Research Notes

The Research Notes section provides a means for educational researchers to communicate with one another about their research-in-progress. Because ajer is so widely indexed nationally and internationally, it is effective in supporting such exchanges. The Research Notes are also a useful means for reporting on smaller research

projects that have one or two findings of particular interest but do not warrant full-article treatment.

The Note should report briefly on the author's / authors' research-inprogress or recently completed research and should feature work that has not been reported elsewhere in journal publications. This current work should be situated, briefly, in the context of other pertinent scholarship, including the author's or authors' related research. The focus of the Note could be either a specific study or an overview of an ongoing line of inquiry where fuller reporting of results will not occur in print for some time. The maximum length for a Note is 1,000 words, excluding references and one or two tables or graphs. Please include a word count in your cover letter and a copy of the document either as an e-mail attachment or on diskette. Acceptable file formats are Microsoft Word for Windows and Microsoft Word for Macintosh or Rich Text Format (RTF) from either platform. To encourage communication between researchers, authors of Research Notes are asked to provide contact information including a one-line biographical note, full mailing address, e-mail, fax, and/or telephone numbers for publication with each Note. This biographical and contact information should be included in the document file on the diskette submitted. No abstract is required, but in all other respects the usual ajer guidelines for manuscripts should be observed.

Submissions to *Research Notes* will be reviewed for readability, rationale, clarity, logic, organization, length, and adherence to all *Alberta Journal of Educational Research* (ajer) guidelines. Any submission that is judged to meet these criteria will be published as soon as possible. Any submission that is judged to require revisions according to the criteria outlined will not be published, and revisions will not be invited as the Notes must be current if they are to serve the purposes identified.

To make inquiries or submissions, please contact:

Fax: (780) 492-0236 E-mail: ajer@ualberta.ca

George H. Buck, Editor Alberta Journal of Educational Research Office of the Dean Faculty of Education 845 Education Centre South University of Alberta Edmonton, AB T6G 2G5 CANADA Tel: (780) 492-3751