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BARBARA GLENZING DODD
August 2014

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Education

Trinity University; Psychology; B.A., 1976
Trinity University; Experimental Psychology; M.S., 1978
The University of Texas at Austin; Educational Psychology (Quantitative Methods); Ph.D., 1984

Professional Positions

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| 9/09 – present | Director Pearson Center for Applied Psychometric Research University of Texas at Austin |
| 9/99 - present | Professor Department of Educational Psychology The University of Texas at Austin |
| 9/87 – 8/00 | Associate Director Measurement and Evaluation Center The University of Texas at Austin |
| 9/92 – 8/99 | Associate Professor Department of Educational Psychology The University of Texas at Austin |
| 9/04 – 8/06 9/92 – 8/98 | Chair of the Ph.D. in Quantitative Methods Program Department of Educational Psychology The University of Texas at Austin |
| 9/86 - 8/92 | Assistant Professor Department of Educational Psychology The University of Texas at Austin |

5/84 - 8/87 Assistant Director
Measurement and Evaluation Center
The University of Texas at Austin

6/84 - 5/86 Lecturer
Department of Educational Psychology
The University of Texas at Austin

National Service, Contracts and Consulting Positions

8/14 – present Member of the Technical Advisory Committee on Standard Setting
National Assessment of Educational Progress (NAEP)
Technology and Engineering Literacy

10/12 – present Member of the Assessment Task Force
Texas Higher Education Coordinating Board

8/04 – present Member of the Arizona Technical Advisory Committee
Arizona Department of Education

4/12 – present Chair of Nomination Committee
Measurement and Research Methodology Division
American Educational Research Association

3/12 – 3/14 Member of the Standard Setting Design Committee
SMARTER Balanced Assessment Consortium
Measured Progress

4/12 – 4/14 Member of Executive Committee
Measurement and Research Methodology Division
American Educational Research Association

9/01 – 2/14 Member of the Texas Technical Advisory Committee
Texas Assessment of Knowledge and Skills/STAAR
Texas Education Agency

11/10 – 12/12 Member of the Technical Advisory Committee on Standard Setting
National Assessment of Educational Progress (NAEP)
Writing
Measured Progress

5/10 – 4/12 Council Liaison
Annual Meeting Policies and Procedures Committee
American Educational Research Association

5/10 – 4/12 Council Member

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| | American Educational Research Association |
| 5/10 – 4/12 | Vice President for the Measurement and Research Methodology Division American Educational Research Association |
| 5/10 – 4/12 | Chair of Executive Committee Measurement and Research Methodology Division American Educational Research Association |
| 4/09 – 4/11 | Member of the Publication Committee National Council on Measurement in Education |
| 11/08 – 8/10 | Member of the Technical Advisory Committee on Standard Setting National Assessment of Educational Progress (NAEP) Science ACT, Inc. |
| 6/06 – 5/09 | Member, Chair Elect, and Chair of the E. F. Lindquist Award Committee American Educational Research Association |
| 1/05 – 12/07 | Member of the Management Committee Journal of Educational and Behavioral Statistics American Educational Research Association |
| 12/04 – 9/07 | Member of Pearson Educational Measurement National Advisory Board |
| 8/06 – 8/07 | Member of the Technical Advisory Committee on Standard Setting National Assessment of Educational Progress (NAEP) Economics ACT, Inc. |
| 5/06 – 4/07 | Member of the Award for Outstanding Dissemination of Educational Measurement Concepts to the Public Committee National Council on Measurement in Education |
| 5/05 – 4/06 | Chair of the Award for Technical or Scientific Contributions Committee National Council on Measurement in Education |
| 5/04 – 4/05 | Member of the Award for Application of Educational Measurement Technology |

National Council on Measurement in Education

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| 9/03 – 3/05 | Member of the Technical Advisory Committee on Standard Setting National Assessment of Educational Progress (NAEP) Grade Twelve Mathematics ACT, Inc. |
| 9/01 – 9/04 | Member of the Research and Development Advisory Committee The College Board New York, New York |
| 9/00 – 12/03 | Member of the Technical Advisory Committee Standards of Learning Assessment Virginia Department of Education |
| 6/97 – 8/02 | Member of the Technical Design Team Oregon Statewide Assessment Program Oregon Department of Education |
| 1/93 – 8/02 | Psychometric Consultant Ability to Benefit Program U.S. Department of Education Washington, D.C. |
| 1/92 – 8/02 | Reviewer of Grant Proposals Field-Initiated Studies Program U.S. Department of Education Washington, D.C. |
| 4/99 – 4/01 | Secretary of Division D and Editor of the <i>d'news</i> American Educational Research Association |
| 7/91 – 8/00 | Tests and Measurement Advisory Committee Member Texas Academic Skills Council Texas Higher Education Coordinating Board |
| 8/97 – 12/00 | Member of the Technical Advisory Committee on Standard Setting 1998 National Assessment of Educational Progress (NAEP) American College Testing |
| 6/99 – 4/00 | Member of the Award for Technical or Scientific Contributions Committee National Council on Measurement in Education |

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| 6/98 – 4/00 | Member of the Brend H. Loyd Outstanding Dissertation Award Committee National Council on Measurement in Education |
| 7/98 – 4/99 | Member of the Award for Application of Educational Measurement Technology National Council on Measurement in Education |
| 1996 - 1999 | Member of the Committee on Professional Responsibilities National Council on Measurement in Education |
| 7/95 - 11/95 | Psychometric Consultant American Council on Education Washington, D.C. |
| 9/94 | Psychometric Consultant The Psychological Corporation San Antonio, Texas |
| 6/92 - 3/94 | Chair of the Annual Texas Testing Conference |
| 10/90 - 10/93 | Member of the Scholastic Aptitude Test Committee The College Board New York, New York |
| 9/93 | Psychometric Consultant American Council on Education Washington, D.C. |
| 4/90 - 5/93 | Book Reviewer Prentice Hall Englewood Cliffs, New Jersey |
| 1/93 | Psychometric Consultant The Psychological Corporation San Antonio, Texas |
| 1990 - 1992 | Psychometric Consultant Texas Education Agency |
| 12/87 - 6/91 | Psychometric Consultant Tests and Measurement Advisory Committee of the Texas Academic Skills Council Texas Higher Education Coordinating Board |
| 5/88 - 1/90 | Program Evaluator (contract) |

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| | Programmer Transitional Training Program IBM |
| 9/79 - 4/89 | Program Evaluator (contract) New Braunfels Independent School District New Braunfels, Texas |
| 1/88 - 2/88 | Psychometric Consultant Youth Opportunities Unlimited Program Texas Higher Education Coordinating Board |
| 6/87 - 8/87 | Psychometric Consultant (contract) Grand Prairie Independent School District Grand Prairie, Texas |
| 6/87 - 8/87 | Psychometric Consultant (contract) DeSoto Independent School District DeSoto, Texas |
| 1/87 | Psychometric Consultant Trinity Presbyterian Child Development Center Austin, Texas |
| 11/86 - 12/86 | Psychometric Consultant The American Registry of Radiologic Technologists Chicago, Illinois |

Professional Publications

Since being promoted to Associate Professor, I have always listed students as the first authors of publications and conference papers they worked on while they were students.

Leroux, A. & Dodd, B. G. (2014) A comparison of stopping rules for computerized adaptive screening measure using the Rasch model. *Journal of Applied Measurement*, 15, 213-226.

Park, R., Kim, J., Chung, H., & Dodd, B. G. (2014). Enhancing pool utilization in constructing the multistage test using mixed-format tests. *Applied Psychological Measurement*, 38, 268-280.

Kim, J. & Dodd, B. G. (2014). Mixed-test Formats: Issues and Methods. In Yan, D., von Davier, A., & Lewis, C. (Eds.), *Computerized Multistage Testing: Theory and Applications*. Frances and Taylor.

- Kim, J., Chung, H., Park, R. & Dodd, B. G. (2013). A comparison of panel designs with routing methods in the multistage test with the partial credit model. *Behavior Research Methods*, 45, 1087-1098.
- Leroux, A. J., Lopez, M., Hembry, I. & Dodd, B. G. (2013). A comparison of exposure control procedures in CATs using the 3PL model. *Educational and Psychological Measurement*, 73, 857-974.
- Whittaker, T. A., Chang, W. C. & Dodd, B.G. (2013). The impact of varied discrimination parameters on mixed-format item response theory (IRT) model selection. *Educational and Psychological Measurement*, 73, 471-490.
- Boyd, A. M., Dodd, B. G. & Fitzpatrick, J. S. (2013). A comparison of exposure control procedures in CAT systems based on different measurement models for testlets. *Applied Measurement in Education*, 26, 113-135.
- Ho, T. & Dodd, B. G. (2012). Item selection and ability estimation in computerized adaptive testing based on the generalized partial credit model. *Applied Measurement in Education*, 25, 305 – 326.
- Kim, J., Chung, H., Dodd, B. G., & Park, R. (2012). Panel design variations in multistage test using mixed-format tests. *Educational and Psychological Measurement*, 72, 574-588.
- Moyer, E. L., Galindo, J. L., & Dodd, B. G. (2012). Balancing flexible constraints and measurement precision in computer adaptive tests. *Educational and Psychological Measurement*, 72, 629-648.
- Whittaker, T. A., Chang, W. C. & Dodd, B. G. (2012). The Performance of IRT Model Selection Methods with Mixed-Format Tests. *Applied Psychological Measurement*, 36, 159-180.
- Lee, H. Y. & Dodd, B. G. (2012). Comparison of exposure controls, item pool characteristics, and population distributions for CAT using the partial credit model. *Educational and Psychological Measurement*, 72, 159-175.
- Park, R., Kim, J., Dodd, B. G. & Chung, H. (2011). JPLEX: Java Simplex Implementation with Branch-And-Bound Search for Automated Test Assembly. *Applied Psychological Measurement*, 35, 643-644.

- Whittaker, T. A., Williams, N. J., & Dodd, B. G. (2011). Do examinees understand score reports for alternative methods of scoring CBTs? *Educational Assessment, 16*, 69-89.
- Choi, W. S., Grady, M, Dodd, B. G. (2011). New stopping rule for computerized adaptive testing. *Educational and Psychological Measurement, 71*, 37-53.
- Murphy, D. L, Dodd, B. G., Vaughan, B. K. (2010). A comparison of item selection techniques for testlets. *Applied Psychological Measurement, 34*, 424-437.
- Boyd, A. M., Dodd, B. G. & Choi, S. (2010). Polytomous Models in Computerized Adaptive Testing. In Nering, M. & Ostini, R. (Eds.), *Development and Applications of Polytomous Item Response Theory Models*. Frances and Taylor.
- Davis, L. L. & Dodd, B. G. (2008). Strategies for controlling item exposure in computerized adaptive testing with the partial credit model. *Journal of Applied Measurement, 9*, 1-17.
- Cook, K. F., Talyor, P., Dodd, B. G., Teal, C. R. & Horney, C. (2007). An evidence-based practice for equating health status items: Sample size and IRT model. *Journal of Applied Measurement, 8*, 175-189.
- Chen, G. A., LePhuoc, P., Guzman, M. R., Rude, S. & Dodd, B. G. (2006). Exploring Asian American racial identity. *Cultural Diversity & Ethnic Minority Psychology, 12*, 461-476.
- Gorin, J. S., Dodd, B. G., Fitzpatrick, S. J. & Sheih, Y. Y. (2005). Computerized adaptive testing with the partial credit model: Estimation procedures, population distributions, and item pool characteristics. *Applied Psychological Measurement, 29*, 433 - 456.
- Davis, L. L. & Dodd, B. G. (2003). Item Exposure Constraints for Testlets in the Verbal Reasoning Section of the MCAT. *Applied Psychological Measurement, 27*, 335 - 356.
- Whittaker, T. A., Fitzpatrick, S., Williams, N. J. & Dodd, B. G. (2003). IRTGEN: A SAS macro program to generate known trait scores and item responses for commonly used item response theory models. *Applied Psychological Measurement, 27*, 299 - 300.

- Davis, L.L., Pastor, D.A., Dodd, B.G., Chiang, C. & Fitzpatrick, S. (2003). An examination of exposure control and content balancing restrictions on item selection in CATs using the partial credit model. *Journal of Applied Measurement*, 4, 24 - 42.
- Pastor, D. A., Dodd, B. G. & Chang, H. (2002). A comparison of item selection techniques and exposure control mechanisms in CATs using the generalized partial credit model. *Applied Psychological Measurement*, 26, 133 - 163.
- Dodd, B. G. & Fitzpatrick, S. J. (2002). Alternatives for scoring computer-based tests. In Mills, C. N., Petenza, M. T., Fremer, J., & Ward, W. C. (Eds.), *Proceedings of the ETS colloquium, computer-based testing: Building the foundation for future assessment*. Mahwah, NJ: Lawrence Erlbaum Associates.
- Hambleton, R. K., Brennan, R. L., Brown, W., Dodd, B. G., Forsyth, R. A., Mehrens, W. A., Nellhaus, J., Reckase, M., Rindone, D., van der Linen, W. J. & Zwick, R. (2000). A response to "Setting Reasonable and Useful Performance Standards" in the National Academy of Sciences' *Grading the Nation's Report Card*. *Educational Measurement: Issues and Practice*, 19, 5-14.
- French, G. A. & Dodd, B. G. (1999). Parameter recovery for the rating scale model using PARSCALE. *Journal of Outcome Measurement*, 3, 176-199.
- Cook, K. F., Dodd, B. G. & Fitzpatrick, S. J. (1999). A comparison of three polytomous item response theory models in the context of testlet scoring. *Journal of Outcome Measurement*, 3, 1-20.
- Chen, S., Hou, L. & Dodd, B. G. (1998). A comparison of maximum likelihood estimation and expected a posteriori estimation on CAT using the partial credit model. *Educational and Psychological Measurement*, 58, 569-595.
- Choi, S. W., Cook, K. F. & Dodd, B. G., (1997). Parameter recovery for the partial credit model using MULTILOG. *Journal of Outcome Measurement*, 2, 114-142.
- Chen, S., Hou, L., Fitzpatrick, S. J. & Dodd, B. G. (1997). The effect of population distribution and methods of theta estimation on CAT using the rating scale model. *Educational and Psychological Measurement*, 57, 422-439.
- Dodd, B. G., De Ayala, R. J. & Koch, W. R. (1995). Computerized adaptive testing with polytomous items. *Applied Psychological Measurement*, 19, 5-22.

- Koch, W. R. & Dodd, B. G. (1995). An investigation of procedures for computerized adaptive testing using the successive intervals Rasch model. *Educational and Psychological Measurement*, 55, 976-990.
- Fitzpatrick, S. J., Choi, S. W., Chen, S., Hou, L. & Dodd, B. G. (1994). IRTINFO: A SAS macro program to compute item and test information. *Applied Psychological Measurement*, 18, 390.
- Dodd, B. G. & Koch, W. R. (1994). Item and scale information functions for the successive intervals model. *Educational and Psychological Measurement*, 54, 873-885.
- Dodd, B. G. & De Ayala, R. J. (1994). Item information as a function of threshold values in the rating scale model. In M. R. Wilson (Ed.), *Objective measurement: Theory into practice* (Vol. 2, pp. 299-315). Norwood, NJ; Ablex.
- Dodd, B. G., Koch, W. R. & De Ayala, R. J. (1993). Computerized adaptive testing using the partial credit model: Effects of item pool characteristics on different stopping rules. *Educational and Psychological Measurement*, 53, 61-77.
- Dodd, B. G. (1992). Book review of *The tenth mental measurement yearbook and the Supplement to the tenth mental measurement yearbook*. *Journal of Educational Measurement*, 29, 198-200.
- De Ayala, R. J., Dodd, B. G. & Koch, W. R. (1992). A comparison of the partial credit and graded response models in computerized adaptive testing. *Applied Measurement in Education*, 5, 17-34.
- De Ayala, R. J., Dodd, B. G. & Koch, W. R. (1991). Partial credit analysis of writing ability. *Educational and Psychological Measurement*, 51, 103-114.
- Clifford, P. R., Edmundson, E. W., Koch, W. R. & Dodd, B. G. (1991). Ascertaining the relationship between life satisfaction and drug use among college students. *International Journal of the Addictions*, 26, 45-53.
- Dodd, B. G. (1990). The effect of item selection procedure and stepsize on computerized adaptive attitude measurement using the rating scale model. *Applied Psychological Measurement*, 14, 355-366.
- De Ayala, R. J., Dodd, B. G. & Koch, W. R. (1990). A simulation and comparison of

flexilevel and Bayesian computerized adaptive testing. *Journal of Educational Measurement*, 27, 227-239.

Koch, W. R., Dodd, B. G. & Fitzpatrick, S. J. (1990). Computerized adaptive measurement of attitudes. *Measurement and Evaluation in Counseling and Development*, 23, 20-30.

Clifford, P. R., Edmundson, E. W., Koch, W. R. & Dodd, B. G. (1989). Discerning the epidemiology of drug use among a sample of college students. *Journal of Drug Education*, 19, 209-223.

Dodd, B. G., Koch, W. R. & De Ayala, R. J. (1989). Operational characteristics of adaptive testing procedures using the graded response model. *Applied Psychological Measurement*, 13, 129-143.

Koch, W. R. & Dodd, B. G. (1989). An investigation of procedures for computerized adaptive testing using partial credit scoring. *Applied Measurement in Education*, 2, 335-357.

Dodd, B. G. & Koch, W. R. (1987). Effects of variations in item step values on item and test information in the partial credit model. *Applied Psychological Measurement*, 11, 371-384.

Carsrud, A. L., Olm, K. W., Dodd, B. G. & Gaglio, C. M. (1987). Business initiation and success: A simulation study of personalities and organizational design. In N. C. Churchill, J. A. Hornaday, B. A. Kirchhoff, O. J. Krasner, & K. H. Vesper (Eds.), *Frontiers of entrepreneurship research* (254-255). Wellesley, MA: Center for Entrepreneurial Studies, Babson College.

Carsrud, A. L., Ahlgren, R. D. & Dodd, B. G. (1986). Evaluating the effects of a community awareness programme on attitudes toward sheltered work and living projects. *The British Journal of Mental Subnormality*, January, 37-41.

Dodd, B. G. (1985). Breadth and depth in statistics. *Contemporary Psychology*, 30, 639-640.

Carsrud, A. L., Carsrud, K. B., Dodd, B. G., LeUnes, A., Rhine, J. & Trout, S. (1984). Effects of tour configurations on attitudes toward the mentally retarded and their institutional settings. *Applied Research in Mental Retardation*, 5, 99-105.

Carsrud, A. L., Carsrud, K. B., Dodd, B. G. & Edwards, V. J. (1981). A behavior modification training manual and monitoring/feedback system for staff working with the mentally retarded. *JSAS Catalog of Selected Documents in Psychology*, 11, 55. (Ms. 2300)

Carsrud, A. L., Carsrud, K. B., Dodd, B. G., Thompson, M. & Gray, W. K. (1981). Predicting vocational aptitude in the mentally retarded: A comparison of assessment systems. *American Journal of Mental Deficiency*, 86, 275-280.

Carsrud, A. L., Carsrud, K. B. & Dodd, B. G. (1980). Randomly monitored utilization of behavior modification techniques: Long-term effects on clients. *Journal of Consulting and Clinical Psychology*, 48, 704-710.

Technical Reports

Murphy, D. & Dodd, B. G. (2009). *A Comparison of College Performance of Matched AP and Non-AP Student Groups*. (Research Report No. 2009-6), New York: The College Board, 46 pp.

Keng, L. & Dodd, B. G. (2008). *A Comparison of College Performances of AP and Non-AP Student Groups in 10 Subject Areas*. (Research Report No. 2008-7), New York: The College Board, 27 pp.

Hargrove, L., Godin, D. G., & Dodd, B. G. (2008). *College Outcomes Comparisons by AP and Non-AP High School Experiences*. (Research Report No. 2008-3), New York: The College Board, 51 pp.

Scammacca, N. K. & Dodd, B.G. (2005). *An Investigation of Educational Outcomes for Students Who Earn Credit through the College-Level Examination Program*. (Research Report No. 2005-5), New York: The College Board, 22 pp.

Boyd, A. M., Dodd, B. G. & Fitzpatrick, S. J. (2004). *A Comparison of Exposure Control Procedures in CAT Systems Based on Different Measurement Models for Testlets*. Washington, DC: Association of American Medical Colleges. (PDF, 27 pages, 181 KB)

Davis, L. L. & Dodd, B. G. (2004). *An Examination of Testlet Scoring and Item Exposure Constraints in the Verbal Reasoning Section of the MCAT*. Washington, DC: Association of American Medical Colleges. (PDF, 45 pages, 321 KB)

Dodd, B. G., Fitzpatrick, S. J., De Ayala, R. J. & Jennings, J. A. (2002). *An investigation*

of the validity of AP grades of 3 and a comparison of AP and non-AP student groups. (Research Report No. 2002-9), New York: The College Board, 57 pp.

Barrett, M. J. & Dodd, B. G. (1998). *The program of course placement and credit by examination at The University of Texas at Austin 1995 - 1996.* (Research Bulletin 98-1), Austin: The University of Texas, Measurement and Evaluation Center, 18 pp.

Kelley, H. P., Fitzpatrick, S. J., Hou, L. & Dodd, B. G. (1997). *Standard setting study for the University of Wisconsin College-Level Placement Test in French for use in course placement and credit by examination in French 506, 507, 312K, and 312L at The University of Texas at Austin: Spring 1997.* (Research Bulletin 97-1). Austin: The University of Texas, Measurement and Evaluation Center, 27 pp.

Kelley, H. P., Fitzpatrick, S. J., Hou, L. & Dodd, B. G. (1997). *Standard setting study for the University of Wisconsin College-Level Placement Test in Spanish for use in course placement and credit by examination in Spanish 506, 507, 312K, and 312L at The University of Texas at Austin: Spring 1996.* (Research Bulletin 96-2). Austin: The University of Texas, Measurement and Evaluation Center, 27 pp.

Yockey, R. D., Barrett, M. J., Dodd, B. G. & Fitzpatrick, S. J. (1996). *Reevaluation of criterion score ranges for the CLEP Subject Examination in American Government and UT Austin Test on Texas Government for use in credit by examination in Government 310L at The University of Texas at Austin: Fall semester 1995 and Spring semester 1996.* (Research Bulletin 96-1). Austin: The University of Texas, Measurement and Evaluation Center, 12 pp.

Fitzpatrick, S. J., McCormack, D. W., Kelley, H. P. & Dodd, B. G. (1994). *Standard-setting study of the UT Austin test for credit in Japanese:--Fall 1991 through Spring 1993.* (Research Bulletin 93-2). Austin: The University of Texas, Measurement and Evaluation Center, 22 pp.

Bené, N. H., Cheng, N., Trent, L. M. & Dodd, B. G. (1994). *Validity study of The College Board Achievement Test in Mathematics for use in course placement in engineering physics at UT Austin, 1991.* (Research Bulletin 91-1). Austin: The University of Texas, Measurement and Evaluation Center, 12 pp.

- Dodd, B. G. (1994). Discussant comments on the NCME symposium "Technical issues related to the introduction of the new SAT and PSAT/NMSQT." In I. Lawrence, N. Dorans, M. Fegenbaum, N. Feryok, A. Schmitt, & N. Wright, *Technical issues of the new SAT* (Research memorandum 94-10). Princeton, NJ: Educational Testing Service, 144 pp.
- Castañeda-English, P., Schneider, J. & Dodd, B. G. (1994). *Procedures for the 1993 Annual Texas Testing Conference* (Special Report 94-1). Austin: The University of Texas, Measurement and Evaluation Center.
- Barrett, M. J., Cheng, S., Fitzpatrick, S. J., Kelley, H. P. & Dodd, B. G. (1993). *Standard-setting study of College Board Mathematics Level I and II Achievement Tests for use in course placement and credit by examination in Mathematics 305G at The University of Texas at Austin* (Research Bulletin 93-1). Austin: The University of Texas, Measurement and Evaluation Center.
- Smith, N. J., Fitzpatrick, S. J. & Dodd, B. G. (1993). *Results of the administration of the computerized Grammar, Spelling and Punctuation Test to College of Communication students on July, 7 1992* (Research Bulletin 92-3). Austin: The University of Texas, Measurement and Evaluation Center.
- Smith, N. J., Fitzpatrick, S. J. & Dodd, B. G. (1993). *Results of the administration of the computerized Grammar, Spelling and Punctuation Test to the College of Communication Summer 1992 MICOM group* (Research Bulletin 92-2). Austin: The University of Texas, Measurement and Evaluation Center.
- Bené, N. H., Dodd, B. G. & Kelley, H. P. (1992). *Validity studies of UT Austin Tests for use in credit by examination in cellular and molecular biology (BIO 302) and structure and function of organisms (BIO 303)* (Research Bulletin 91-2). Austin: The University of Texas at Austin, Measurement and Evaluation Center.
- Trent, L. M., Barrett, M. J., Dodd, B. G. & Kelley, H. P. (1992). *Two-semester validity study of the use of the College Board achievement test in mathematics level I for placement into M 403K at UT Austin Fall 1988 and Spring 1989* (Research Bulletin 90-3). Austin: The University of Texas at Austin, Measurement and Evaluation Center.
- Morrison, C. A., Fitzpatrick, S. J., Dodd, B. G. & Hagen, A. S. (1988). *The U.T. Austin Teacher Assessment Project*. Austin: The University of Texas at Austin,

Measurement and Evaluation Center.

Kittrell, A. T., Dodd, B. G., De Ayala, R. J. & Kelley, H. P. (1986). *Equivalence of scores on The College Board Achievement Test in English Composition with scores on both the Verbal Section of the SAT and the English Usage Test of the ACT Assessment, The University of Texas at Austin, 1982-1983* (Research Bulletin 86-2). Austin: The University of Texas at Austin, Measurement and Evaluation Center.

Dodd, B. G., Curran, L. T. & Slover, J. A. T. (1985). *Equivalent scores on the GRE-Verbal Subscale and the Miller Analogies Test at The University of Texas at Austin, Spring 1985* (Research Bulletin 85-3). Austin: The University of Texas at Austin, Measurement and Evaluation Center.

De Ayala, R. J., Curran, L. T., Dodd, B. G. & Slover, J. A. T. (1985). *Equivalent scores on the Scholastic Aptitude and the Graduate Management Admission Tests at The University of Texas at Austin, Spring 1985* (Research Bulletin 85-2). Austin: The University of Texas at Austin, Measurement and Evaluation Center.

Curran, L. T., De Ayala, R. J., Dodd, B. G. & Slover, J. A. T. (1985). *SAT-GRE equivalent scores at The University of Texas at Austin, Spring 1985* (Research Bulletin 85-1). Austin: The University of Texas at Austin, Measurement and Evaluation Center.

Dodd, B. G. & Kelley, H. P. (1984). *Equivalent scores on the SAT Mathematical Scale and The College Board Achievement Test in Mathematics Level I at The University of Texas at Austin, 1982-1983* (Research Bulletin 84-9). Austin: The University of Texas at Austin, Measurement and Evaluation Center.

Appenzellar, A. B., Dodd, B. G. & Kelley, H. P. (1983). *Validity studies of College Board achievement tests in Physics and Mathematics for use in course placement in Engineering Physics at The University of Texas at Austin, 1981-1983* (Research Bulletin 83-12). Austin: The University of Texas at Austin, Measurement and Evaluation Center.

Dodd, B. G. & Kelley, H. P. (1983). *SAT-ACT equivalent scores at The University of Texas at Austin, 1980-1983* (Research Bulletin 83-9). Austin: The University of Texas at Austin, Measurement and Evaluation Center.

- Dodd, B. G., Appenzellar, A. B., Dansby, A. A. & Kelley, H. P. (1982). *Relation of scores on the CLEP Subject Examination, Introduction to Management, to student performance in Management 3013, 3023, and 5003 at U.T. San Antonio, Spring 1981* (Research Bulletin 82-16). Austin: The University of Texas at Austin, Measurement and Evaluation Center.
- Dodd, B. G., Appenzellar, A. B., Dansby, A. A. & Kelley, H. P. (1982). *Relation of scores on the CLEP Subject Examination in Introductory Marketing to student performance in Marketing 3013 at U.T. San Antonio, Spring 1981* (Research Bulletin 82-15). Austin: The University of Texas at Austin, Measurement and Evaluation Center.
- Dodd, B. G., Appenzellar, A. B., Dansby, A. A. & Kelley, H. P. (1982). *Relation of scores on the CLEP Subject Examination in Introductory Accounting to student performance in Accounting 2023 at U.T. San Antonio, Spring 1981* (Research Bulletin 82-14). Austin: The University of Texas at Austin, Measurement and Evaluation Center.
- Dodd, B. G. & Stipnieks, A. (1981). *Evaluation of the VENCEREMOS Bilingual Education Program in the New Braunfels Independent School District: Interim evaluation report for 1980-1981*. New Braunfels, TX: New Braunfels Independent School District.
- Appenzellar, A. B., Dodd, B. G. & Kelley, H. P. (1980). *Validity Study of two College Board German tests for use in course placement and credit by examination at The University of Texas at Austin, 1979-1980* (Research Bulletin 80-9). Austin: The University of Texas at Austin, Measurement and Evaluation Center.
- Dodd, B. G., Appenzellar, A. B. & Kelley, H. P. (1980). *Validity study of CLEP Subject Examination in American Government for use in placement and credit by examination, The University of Texas at Austin, Spring Semester 1980* (Research Bulletin 80-8). Austin: The University of Texas at Austin, Measurement and Evaluation Center.

Jemelka, R., Dodd, B., Thomas, G. & Bryant, M. (1980). *Evaluation of the VENCEREMOS Bilingual Education Program in the New Braunfels Independent School District: Interim Evaluation Report for 1979-1980*. New Braunfels, TX: New Braunfels Independent School District.

Dodd, B. G., Appenzellar, A. B. & Kelley, H. P. (1975). *Validity study of the CLEP Subject Examination in Introductory Sociology at The University of Texas at Austin, 1974-1975: Credit by examination in Sociology 302* (Research Bulletin 75-3). Austin: The University of Texas at Austin, Measurement and Evaluation Center.

Professional Paper Presentations

Brown, R., Chang, W., Hembry, I. F., Haring, S., & Dodd, B. G. (2014, April). Evaluation of the effect of blended course format on student performance. Paper presented at the annual Meeting of the American Educational Research Association, Philadelphia, PA.

Leroux, A. J. & Dodd, B. G. (2014, April). *A comparison of exposure control procedures in CATs using the GPC model*. Paper to be presented as the annual meeting of the American Educational Research Association, Philadelphia, PA.

Park, R., Pituch, K. A., Kim, J., Chung, H., & Dodd, B. G. (2014, April). *Comparing the performance of multivariate multilevel modeling to traditional analyses with complete and incomplete data*. Paper to be presented as the annual meeting of the American Educational Research Association, Philadelphia, PA.

Park, R., Seol, J., Kim, J. & Dodd, B. G. (2014, April). *The impact of statistical constraints on classification accuracy for multistage tests*. Paper to be presented as the annual meeting of the American Educational Research Association, Philadelphia, PA.

Chang, W. & Dodd, B. G. (2013, April). *A comparison of the MFI and GMIR item selection criteria in computerized adaptive testing using the generalized partial credit model*. Paper presented at the annual meeting of the American Educational Research

Association, San Francisco, CA.

Galindo, J. L., Park, R. & Dodd, B. G. (2013, April). *The effect of test structure, routing test length, and total test length on multistage testing using the 3PL testlet response theory model*. Paper presented at the annual meeting of the National Council on Measurement in Education, San Francisco, CA.

Kim, J., Park, R., Chung, H., & Dodd, B. G., & Pituch, K. A. (2013, April). *The impact of data format on PROC NLMIXED estimation of item response theory parameters*. Paper presented at the annual meeting of the American Educational Research Association, San Francisco, CA.

Leroux, A. & Dodd, B. G. (2013, April). *A comparison of stopping rules for computerized adaptive screening measure using the Rasch model*. Paper presented at the annual meeting of the American Educational Research Association, San Francisco, CA.

Moyer, E. L. & Dodd, B. G. (2013, April). *Effects of computer adaptive testing stopping rules on precision and efficiency*. Paper presented at the annual meeting of the American Educational Research Association, San Francisco, CA.

Park, R., Pituch, K. A., Kim, J., Dodd, B. G., Chung, H. (2013, April). *Marginal maximum likelihood estimation of parameters for the IPL-AG IRT model*. Paper presented at the annual meeting of the American Educational Research Association, San Francisco, CA.

Dodd, B. G. (2012, April). *Setting academic preparedness standards for job training programs: Are we prepared?* Discussant for symposium at the annual meeting of the National Council on Measurement in Education, Vancouver, BC.

Dodd, B. G. (2012, April). *Are You a Next Generation Methodologist? Transitioning From Graduate Student to Professional in a Next Generation Research & Assessment World*. Panel member for the symposium at the annual meeting of the American Educational Research Association, Vancouver, BC.

Galindo, J. L., Moyer, E. L., & Dodd, B. G. (2012, April). *Effectiveness of two modifications to the weighted penalty model for balancing flexible test constraints*.

Paper presented at the annual meeting of the Educational Research Association, Vancouver, BC.

Kim, J., Chung, H., Park, R., & Dodd, B. G. (2012, April). *Comparing panel designs with routing methods in multistage test with the partial credit model*. Paper presented at the annual meeting of the Educational Research Association, Vancouver, BC.

Moyer, E. L., & Dodd, B. G. (2012, April). *Effects of computerized adaptive test stopping rules on ability classifications*. Paper presented at the annual meeting of the American Educational Research Association, Vancouver, B.C.

Park, R., Kim, J., Chung, H., & Dodd, B. G. (2012, April). *Enhancing pool utilization in constructing the multistage test using mixed-format tests*. Paper presented at the Annual Meeting of the National Council on Measurement in Education, Vancouver, B.C.

Whittaker, T. A., Chang, W., & Dodd, B. G. (2012, April). *The performance of IRT model selection methods with mixed-format tests*. Paper presented at the annual meeting of the American Educational Research Association, Vancouver, B.C.

Chung, H., Kim, J., & Dodd, B. G. (2011, August). *Application of Markov chain monte carlo (MCMC) technique in item response theory (IRT) model estimation*. Paper presented at the annual meeting of the American Psychological Association, Washington, DC.

Chen, L. & Dodd, B. G. (2011, April). *The effects of test structure, routing testing length, total test length for multistage testing using the generalized partial credit model*. Paper presented at the annual meeting of the National Council on Measurement in Education, New Orleans, LA.

Chen, L. & Dodd, B. G. (2011, April). *Effect of test design and test length for multistage testing on different examinee trait distributions using the generalized partial credit model*. Paper presented at the annual meeting of the American Educational Research Association, New Orleans, LA.

Kim, J., Chung, H., Park, R., & Dodd, B. G. (2011, April). *A comparison of panel designs in multistage test based on the partial credit model*. Paper presented at the

annual meeting of the American Educational Research Association, New Orleans, LA.

Lee, H. Y., Dodd, B. G., & Ho, T. (2011, April). *A comparison of item selection procedures with exposure control procedures under matched and mismatched conditions of item pool and ability distribution: Computerized adaptive testing with the partial credit model*. Paper presented at the annual meeting of the American Educational Research Association, New Orleans, LA.

Moyer, E. L, Galindo, J. L., & Dodd, B. G. (2011, April). *Balancing flexible constraints and measurement precision in computer adaptive tests*. Paper presented at the annual meeting of the American Educational Research Association, New Orleans, LA.

Park, R., Kim, J., Chung, H., & Dodd, B. G. (2011, April). *Automated test assembly of multistage tests based on mixed-format tests using linear programming*. Paper presented at the annual meeting of the National Council on Measurement in Education, New Orleans, LA.

Park, R., Kim, J., Dodd, B. G. & Chung, H. (2011, April). *Linear programming modeling using the derivative objective function for automated test assembly*. Paper presented at the annual meeting of the American Educational Research Association, New Orleans, LA.

Weisenburgh-Snyder, A. Chen, L. & Dodd, B. G. (2011, April) *Using the Rasch model to develop a screening measure for at-risk and advanced beginning readers to enhance response-to-intervention frameworks*. Paper presented at the annual meeting of the American Educational Research Association, New Orleans, LA.

Dodd, B. G. (2010, October). *When research and researchers intersect with policy and policy-makers*. Invited panel participant at the American Educational Research Association Coordinated Committee Meeting, Washington, D.C.

Dodd, B. G. (2010, July). *Measurement models for language arts assessments*. Invited lecture, Meadows Center for Preventing Educational Risk. Austin, TX.

Chen, L. & Dodd, B. G. (2010, May). *An investigation of the optimal test design for multistage testing using the generalized partial credit model*. Paper presented at the annual meeting of the American Educational Research Association, Denver, CO.

- Dodd, B. G. (2010, May). *University of Texas Pearson endowments*. Invited lecture at the Pan-Pearson Research Summit, Denver, CO.
- Grady, M.W., Vaughn, B., & Dodd, B.G (2010, May). *Using group specific priors for ability estimation in computerized adaptive testing: Implications for bias and measurement precision*. Paper presented at the annual meeting of the National Council on Measurement in Education, Denver, CO.
- Ho, T. & Dodd, B. G. (2010, May). *A comparison of item selection procedures for mixed-format tests based on the generalized partial credit model*. Paper presented at the annual meeting of the American Educational Research Association, Denver, CO.
- Ho, T. & Dodd, B. G. (2010, May). *A comparison of item selection procedures for mixed format tests based on the testlet response theory model*. Paper presented at the annual meeting of American Educational Research Association, Denver, CO.
- Kim, J., Chung, H., & Dodd, B. G. (2010, May). *Panel design variations in multistage test using mixed-format tests*. Paper presented at the annual meeting of the American Educational Research Association, Denver, CO.
- Kim, J., Chung, H., & Dodd, B. G. (2010, May). *Comparing routing methods in the multistage test based on the partial credit model*. Paper presented at the annual meeting of the American Educational Research Association, Denver, CO.
- Kim, J., Chung, H., & Dodd, B. G. (2010, May). *Comparing computer-based classification testing approaches using mixed-format tests with the generalized partial credit model*. Paper presented at the annual meeting of the National Council on Measurement in Education, Denver, CO.
- Lee, H. Y. & Dodd, B. G. (2010, May). *Comparison of exposure controls, item pool characteristics, and population distribution: CAT with the partial credit model*. Paper presented at the annual meeting of the American Educational Research Association, Denver, CO.
- Li, X., Wang, D., & Dodd, B. G. (2010, May). *A comparison of test design variations in multilevel tests*. Paper presented at the annual meeting of the American Educational Research Association, Denver, CO.
- Dodd, B. G., Cook, K. F. & Godin, D. G. (2010, March). *Computer adaptive medical outcome assessment: A comparison of the rating scale and successive interval*

models. Invited lecture, Rice University, Houston, TX.

Dodd, B. G. (2009, July). *A graphical introduction to item response theory*. Invited lecture to the Meadows Center for Preventing Educational Risk. Austin, TX.

Choi, W. S., Grady, M, Dodd, B. G. (2009, April). *New stopping rule for computerized adaptive testing*. Paper presented at the annual meeting of American Educational Research Association, San Diego, CA.

Grady, M. & Dodd, B. G. (2009, April). *A comparison of item exposure control procedures for mixed-format adaptive tests with the generalized partial credit model*. Paper presented at the annual meeting of National Council on Measurement in Education, San Diego, CA.

Ho, T. & Dodd, B. G. (2009, April). *A comparison of item selection procedures using different ability estimation methods in CAT based on the generalized partial credit model*. Paper presented at the annual meeting of National Council on Measurement in Education, San Diego, CA.

Ho, T., Dodd, B. G., & Hsin, Y. (2009, April). *A comparison of item exposure control procedures using different ability estimation methods in CAT based on the generalized partial credit model*. Paper presented at the annual meeting of American Educational Research Association, San Diego, CA.

Keng, L. & Dodd, B. G. (2009, April). *A comparison of the performance of testlet-based computer adaptive tests and multistage tests*. Paper presented at the annual meeting of National Council on Measurement in Education, San Diego, CA.

Chen, P., Dodd, B.G. & Wu, H. (2008, March). *A sampling approach to assemble polytomous items based on the generalized partial credit model*. Paper presented at the annual meeting of the National Council on Measurement in Education, New York.

Godin, D. & Dodd, B. G. (2008, March). *A comparison of college performance of AP and non-AP student groups in science and mathematics: A large statewide study*. Paper presented at the annual meeting of the American Educational Research Association, New York.

Hargrove, L., Godin, D. & Dodd, B. G. (2008, March). *College outcomes by gender and*

ethnicity: Does subject-specific AP[®] experience matter? Paper presented at the annual meeting of the American Educational Research Association, New York.

Ho, T. & Dodd, B. G. (2008, March). *Item exposure constraints for mixed-format tests with the partial credit model*. Paper presented at the annual meeting of the American Educational research Association, New York.

Keng, L., Ho, T., Chen, T. & Dodd, B. G. (2008, March). *A comparison of item and testlet selection procedures in computerized adaptive testing*. Paper presented at the annual meeting of the National Council on Measurement in Education, New York.

Kim, J., Tseng, C. H., Chung, H. & Dodd, B. G. (2008, March). *A comparison of test designs variations in panel structures of computerized adaptive testing systems under the partial credit model*. Paper presented at the annual meeting of the American Educational Research Association, New York.

Murphy, D. & Dodd, B. G. (2008, July). *A comparison of college performance of matched AP and Non-AP Student Groups*. Paper presented at the Annual Advanced Placement Conference, Seattle.

Tseng, C. H. & Dodd, B. G. (2008, March). *A comparison of exposure control procedures on CAT using the generalized partial credit model*. Paper presented at the annual meeting of the National Council on Measurement in Education, New York.

Chen, P., Park, I. & Dodd, B. G. (2007, November). *An investigation of testlet information functions with testlet data*. Paper presented at the annual meeting of the Florida Educational Research Association, Tampa.

Hargrove, L., Godin, D. & Dodd, B. (2007, October). *College performance statewide: AP[®] English Language and non-AP groups*. Invited presentation at the Double the Numbers Conference, Washington DC.

Hargrove, L., Godin, D., & Dodd, B. (2007, October). *College performance in review: Texas AP and non-AP groups*. Invited presentation at the AP Conference for District and School Administrators and AP Coordinators, San Antonio.

Hargrove, L., Godin, D. & Dodd, B. (2007, June). *College outcomes and the AP experience: Does the AP grade “2” matter?* Invited presentation at the AP Conference for District and School Administrators and AP Coordinators, San Antonio.

Keng, L. & Dodd, B. G. (2007, June). *An investigation of college performance of Advanced Placement (AP) and non-AP student groups.* Invited presentation at Service Training Meeting at the College Board Southwestern Regional Office, Austin.

Dodd, B. G., Godin, D. & Keng, L. (2007, May). *A comparison of college performance of AP and non-AP student groups in science and mathematics.* Invited presentation at the Conference on Advanced High School Course work in Science and Mathematics, Harvard-Smithsonian Center for Astrophysics, Cambridge, MA.

Hargrove, L., Godin, D. & Dodd, B. (2007, April). *College outcomes and the AP experience: Does the AP grade “2” matter?* Paper presented at the annual meeting of the American Educational Research Association, Chicago.

Keng, L. & Dodd, B. G. (2007, April). *An investigation of college performance of Advanced Placement (AP) and non-AP student groups.* Paper presented at the annual meeting of the American Educational Research Association, Chicago.

Godin, D., Hargrove, L. & Dodd, B. G. (2006, July). *A comparison of college outcome measures for AP and other student groups.* Paper presented at the Annual Advanced Placement Conference, Lake Buena Vista, FL.

Keng, L. & Dodd, B. G. (2006, July). *An investigation of college performance of Advanced Placement (AP) and Non-AP student groups.* Paper presented at the Annual Advanced Placement Conference, Lake Buena Vista, FL.

Godin, D., Dodd, B. & Hargrove, L. (2006, April). *An evaluation of the AP experience using college outcome measures.* Paper presented at the annual meeting of the American Educational Research Association, San Francisco.

- Macken-Ruiz, C., Hargrove, L. & Dodd, B. (2006, April). *CAT ability estimation with varying item exposure controls and types of DIF using the partial credit model*. Paper presented at the annual meeting of the American Educational Research Association, San Francisco.
- McClarty, K. L., Sperling, R. & Dodd, B. G. (2006, April). *A variant of the progressive-restrictive item exposure control procedure in computerized adaptive testing systems based on the 3PL and the partial credit model*. Paper presented at the annual meeting of the American Educational Research Association, San Francisco.
- Boyd, A. M., Dodd, B. G. & Fitzpatrick, S. J. (2005, April). *Comparison of the progressive restricted and Symptom-Hetter exposure control procedures in testlet-based CAT systems*. Paper presented at the annual meeting of the American Educational Research Association, Montreal, Canada.
- Dodd, B. G., Cook, K. F. & Godin, D. G. (2005, April). *Computer adaptive medical outcome assessment: A comparison of the rating scale and successive interval models*. Paper presented at the annual meeting of the American Educational Research Association, Montreal, Canada.
- Williams, N. J., Whittaker, T. A., Dodd, B. G., Chun, H. & Taff, K. (2005, April). *Do examinees understand score reports for alternative methods of scoring CBTs?* Paper presented at the annual meeting of the American Educational Research Association, Montreal, Canada.
- Furlow, C. F., Boyd, A. M. & Dodd, B. G. (2004, July). *Response bias and differential item functioning in attitude data*. Paper presented at the 112th Annual Convention of the American Psychological Association, Honolulu.
- Dodd, B.G. (2004, May). *The use of polytomously-scored items in computer based- tests*. Invited visiting scholar presentation at ACT, Iowa City.
- Davis, L. & Dodd, B. G. (2004, April). *Strategies for controlling item exposure in computerized adaptive testing with the partial credit model*. Paper presented at the annual meeting of the National Council on Education in Education, San Diego.
- Dodd, B. G. (2004, April). *Publish don't perish: How to turn conference papers into*

publication. Invited address for the Graduate Student Council; American Educational Research Association, San Diego.

Boyd, A. M. & Dodd, B. G. & Fitzpatrick, S. J. (2003, April). *Comparison of exposure control procedures in computerized adaptive testing systems based on different measurement models for testlets*. Paper presented at the annual meeting of the National Council on Measurement in Education, Chicago.

Burt, W., Kim, S., Davis, L. & Dodd, B. G. (2003, April). *Three exposure control techniques in CAT using the partial credit model*. Paper presented at the annual meeting of the Educational Research Association, Chicago.

Chen, G. A., LePhuoc, P., Guzman, M. R., Rude, S. & Dodd, B. G. (2003, August). *Exploring the complexity of Asian American racial identity*. Paper presented at the 111th Annual Convention of the American Psychological Association, Toronto, Canada.

Dodd, B. G. (2003, April). *Uncovering the mystics of publishing*. Invited member of panel for the Graduate Student Council; American Educational Research Association, Chicago.

Dodd, B. G., DeAyala, R. J., Fitzpatrick, S. J. & Jennings, J. A. (2002, February). *An investigation of the validity of AP grades of 3 and a comparison of AP and non-AP student groups*. Paper presented at the annual Southwestern Regional Assembly Meeting of The College Board, Houston.

Jennings, J. A., Dodd, B. G. & Fitzpatrick, S. J. (2001, April). *An investigation of the impact of items that exhibit mild non-uniform DIF on ability estimation in CAT*. Paper presented at the annual meeting of the National Council on Measurement in Education, Seattle.

Davis, L., Pastor, D. A., Chiang, C., Dodd, B. G. & Fitzpatrick, S. J. (2000, April). *An examination of exposure control and content balancing restrictions on item selection in CATs using the partial credit model*. Paper presented at the annual meeting of the American Educational Research Association, New Orleans.

Gorin, J. S., Dodd, B. G., Fitzpatrick, S. J. & Shieh, Y. Y. (2000, April). *Computerized adaptive testing with the partial credit model: Estimation procedures, population distributions, and item pool characteristics*. Paper presented at the annual meeting of the American Educational Research Association, New Orleans.

- Jennings, J. A., McNeill, M. K., Dodd, B. G. & Fitzpatrick, S. J. (2000, April). *An investigation of the impact of items that exhibit mild DIF on ability estimation in variable-length CAT*. Paper presented at the annual meeting of the American Educational Research Association, New Orleans.
- McNeill, M. K., Jennings, J. A., Dodd, B. G. & Fitzpatrick, S. J. (2000, April). *An investigation of the impact of polytomous items that exhibit differential item functioning on ability estimation in computerized adaptive tests*. Paper presented at the annual meeting of the American Educational Research Association, New Orleans.
- Pastor, D. A., Dodd, B. G. & Chang, H. (2000, April). *A comparison of item selection techniques and exposure control mechanisms in CATs using the generalized partial credit model*. Paper presented at the annual meeting of the American Educational Research Association, New Orleans.
- Jennings, J. A., McNeill, M. K., Sheih, Y., Dodd, B. G. & Fitzpatrick, S. J. (1999, April). *An investigation of the impact of items that exhibit mild DIF on ability estimation in CAT*. Paper presented at the annual meeting of the National Council on Measurement in Education, Montreal, Canada.
- Pastor, D. A., Chiang, C., Dodd, B. G. & Yockey, R. (1999, April). *Performance of the Simpson –Hetter exposure control algorithm with a polytomous item bank*. Paper presented at the annual meeting of the American Educational research Association, Montreal, Canada.
- Dodd, B. G. & Fitzpatrick, S. J. (1998, September). *Alternatives for scoring computer-based tests*. Invited presentation at the ETS colloquium on computer-based testing: Building the foundation for future assessments, Philadelphia.
- Dodd, B. G. (1998, April). *Trends in computerized adaptive testing – A synthesis of this year's sessions*. Invited symposium presented at the annual meeting of the National Council on Measurement in Education, San Diego.
- Dodd, B. G. & Fitzpatrick, S. J. (1997, March). *The impact of choice of scale transformation on the comparison of information functions based on different IRT models*. Paper presented at the annual meeting of the American Educational Research Association, Chicago.
- Fitzpatrick, S. J. & Dodd, B. G. (1997, March). *The effect on information of a transformation of the parameter scale*. Paper presented at the annual meeting of the American Educational Research Association, Chicago.

- Chen, S., Hou, L. & Dodd, B. G. (1996, April). *A comparison of maximum likelihood estimation and expected a posteriori estimation on CAT using the partial credit model*. Paper presented at the annual meeting of the American Educational Research Association, New York.
- Cheng, S. & Dodd, B. G. (1996, April). *The impact of testlet length, proportion of testlet items, and degree of local dependency on dichotomous and testlet scoring*. Paper presented at the annual meeting of the American Educational Research Association, New York.
- Choi, S. W., Cook, K. F. & Dodd, B. G. (1996, April). *Parameter recovery for the partial credit model using MULTILOG*. Paper presented at the annual meeting of the American Educational Research Association, New York.
- Cook, K. F. & Dodd, B. G. (1996, April). *A comparison of three polytomous IRT models in the context of testlet scoring*. Paper presented at the annual meeting of the American Educational Research Association, New York.
- Dodd, B. G., Fitzpatrick, S. J. & Cook, K. F. (1996, April). *A true score equating technique for comparing the information functions from different IRT models*. Paper presented at the annual meeting of the American Educational Research Association, New York.
- Hou, L., Chen, S., Dodd, B. G. & Fitzpatrick, S. J. (1996, April). *The effect on methods of theta estimation, prior distribution, and number of quadrature points on CAT using the graded response model*. Paper presented at the annual meeting of the American Educational Research Association, New York.
- Dodd, B. G., Binder, S. & Boyd, G. (1995, June). *Transition to college: admission, advising, placement*. Invited faculty for summer institute for the College Board Southwestern Division, San Antonio.
- Chen, S., Hou, L., Fitzpatrick, S. J. & Dodd, B. G. (1995, April). *The effect of population distribution and methods of theta estimation on CAT using the rating scale model*. Paper presented at the annual meeting of the American Educational Research Association, San Francisco.
- Dodd, B. G. (1995, April). *Computerized adaptive testing*. Invited discussant for paper session at the annual meeting of the National Council on Measurement in Education, San Francisco.
- Dodd, B. G. (1995, April). *Recentering the SAT I scores on college campuses*. Paper

presented at the annual meeting of the Texas Association of College Admissions Counselors, Austin.

Dodd, B. G. (1995, February). *Recentering the SAT: What do admission and financial aid professionals need to know?* Measurement specialist panel member for session presented at the annual Southwestern Regional Assembly Meeting of The College Board, Albuquerque.

Dodd, B. G. & Mahoney, S. S. (1994, March). *Computerized Testing: New technology presents new challenges in test administration*. Paper presented at the Eighth Annual Texas Testing Conference, Austin.

Dodd, B. G. (1993, April). *Computerized testing*. Invited discussant for paper session at the annual meeting of the American Educational Research Association, Atlanta.

Dodd, B. G. (1993, April). *Technical issues related to the introduction of the new SAT and PSAT/NMSQT*. Discussant for symposium at the annual meeting of the National Council on Measurement in Education, Atlanta.

Dodd, B. G. & Koch, W. R. (1993, April). *Item and scale information functions for the successive intervals Rasch model*. Paper presented at the Seventh International Objective Measurement Workshop, Atlanta.

Koch, W. R. & Dodd, B. G. (1993, April). *An investigation of procedures for computerized adaptive testing using the successive intervals Rasch model*. Paper presented at the American Educational Research Association, Atlanta.

Dodd, B. G. (1993, January). *Texas Education Agency Evaluation Research Update*. Discussant for symposium at the annual meeting of the Southwest Educational Research Association, Austin.

Dodd, B. G. (1992, October). *Computerized adaptive testing*. Invited paper presented at the annual Fall Conference of the Texas Association of Collegiate Testing Personnel, El Paso.

Dodd, B. G. (1992, April). *Developing scales for student assessment*. Invited discussant for paper session at the annual meeting of the American Educational Research Association, San Francisco.

Dodd, B. G. (1992, February). *Are you ready for the SAT-I and SAT-II?* Invited paper presented at the annual Southwestern Regional Assembly Meeting of The College Board, Fort Worth.

- Dodd, B. G. (1991, October). *Responding to student and parent questions about testing for college*. College Level/Measurement Specialist panel member for session presented at the 47th National Conference of the National Association of College Admission Counselors, New Orleans.
- De Ayala, R. J., Dodd, B. G. & Koch, W. R. (1991, April). *An investigation of the robustness of a partial credit model based adaptive test to misfitting items*. Paper presented at the annual meeting of the National Council on Measurement in Education, Chicago.
- Dodd, B. G. & De Ayala, R. J. (1991, April). *Item information as a function of threshold values in the rating scale model*. Paper presented at the Sixth International Objective Measurement Workshop, Chicago.
- Fitzpatrick, S. J. & Dodd, B. G. (1991, April). *A comparison of parameter estimates from the rating scale model and nonmetric multidimensional scaling*. Paper presented at the Sixth International Objective Measurement Workshop, Chicago.
- Triscari, R. S. & Dodd, B. G. (1991, April). *A comparison of classical and item response theory equating methods using a composite score of direct and indirect writing assessment*. Paper presented at the Sixth International Objective Measurement Workshop, Chicago.
- Dodd, B. G. (1990, September). *How to deal with suspected impersonation*. Invited paper presented at the Annual Fall Conference of the Texas Association of Collegiate Testing Personnel, Galveston.
- De Ayala, R. J., Dodd, B. G. & Koch, W. R. (1990, April). *A comparison of the partial credit and graded response models in computerized adaptive testing*. Paper presented at the annual meeting of the American Educational Research Association, Boston.
- Dodd, B. G., Koch, W. R. & De Ayala, R. J. (1990, April). *Operational characteristics of computerized adaptive testing using the partial credit model revisited*. Paper presented at the annual meeting of the American Educational Research Association, Boston.
- Koch, W. R., Dodd, B. G. & De Ayala, R. J. (1990, April). *The effects of item pool information on computerized adaptive testing using the partial credit model*. Paper presented at the annual meeting of the American Educational Research Association, Boston.
- Dodd, B. G. & Paine, G. E. (1990, March). *Test candidates who attempt to cheat--deterrence, detection, and punishment*. Paper presented at the Fourth Annual Texas Testing Conference, Austin.

- Dodd, B. G. (1990, February). *Quantitative and analytical skills needed by today's admission officer*. Invited paper presented at the annual Southwestern Regional Assembly Meeting of The College Board, Corpus Christi.
- Dodd, B. G. (1990, January). *Measurement approaches for educational improvement*. Discussant for symposium conducted at the annual meeting of the Southwest Educational Research Association, Austin.
- De Ayala, R. J., Dodd, B. G. & Koch, W. R. (1989, March). *A comparison of the graded response and partial credit models for assessing writing ability*. Paper presented at the annual meeting of the National Council on Measurement in Education, San Francisco.
- Dodd, B. G., Koch, W. R. & De Ayala, R. J. (1989, March). *Validity of combined essay and multiple choice achievement scores: Classical versus IRT approaches*. Paper presented at the annual meeting of the American Educational Research Association, San Francisco.
- Koch, W. R., Dodd, B. G. & Fitzpatrick, S. J. (1989, March). *An application of the Rasch rating scale model to adaptive attitude measurement*. Paper presented at the Fifth International Objective Measurement Workshop, Berkeley.
- Dodd, B. G. (1989, March). *College credit in the sciences for advanced placement students*. Invited paper presented at the College Board Advanced Placement Conference, Houston.
- Dodd, B. G. & Paine, G. E. (1989, March). *Test candidates who attempt to cheat--deterrence, detection, and punishment*. Paper presented at the Third Annual Texas Testing Conference, Austin.
- Kelley, H. P., Koch, W. R. & Dodd, B. G. (1989, March). *Issues and strategies in managing the development of measurement services offices*. Paper presented at the Third Annual Texas Testing Conference, Austin.
- Dodd, B. G. (1988, September). *Procedures for setting standards of performance on education tests*. Invited paper presented as part of a forum for Test Administrators at the First Annual Fall Conference of the Texas Association of Collegiate Testing Personnel, San Antonio.

- De Ayala, R. J., Dodd, B. G. & Koch, W. R. (1988, April). *A comparison of the nominal and graded response models in computerized testing*. Paper presented as part of symposium on New Developments in Polychotomous Item Scoring and Modeling at the annual meeting of the American Educational Research Association, New Orleans.
- Dodd, B. G., Koch, W. R. & De Ayala, R. J. (1988, April). *Computerized adaptive attitude measurement: A comparison of the graded response and rating scale models*. Paper presented at the annual meeting of the American Educational Research Association, New Orleans.
- Koch, W. R., De Ayala, R. J. & Dodd, B. G. (1988, April). *Operational characteristics of adaptive testing procedures using the graded response model*. Paper presented at the annual meeting of the American Educational Research Association, New Orleans.
- Dodd, B. G. (1988, March). *Developing effective examinations*. Paper presented at the Second Annual Texas Testing Conference, Austin.
- Dodd, B. G. (1988, February). *To CLEP or not to CLEP: That is the question*. Invited paper presented at the annual Southwestern Regional Assembly Meeting of The College Board, Albuquerque.
- Clifford, P. R., Edmundson, E., Koch, W. R., Peterson, F. L., Vacalis, T. D. & Dodd, B. G. (1987, October). *The epidemiology of drug use among college students*. Paper presented at the 115th Annual Meeting of the American Public Health Association, New Orleans.
- Clifford, P. R., Jones, W., Jr., Edmundson, E., Koch, W. R. & Dodd, B. G. (1987, October). *Discerning the relationship between drug use and life satisfaction among college students*. Paper presented at the 115th Annual Meeting of the American Public Health Association, New Orleans.
- Dodd, B. G. (1987, April). *Computerized adaptive testing with the rating scale model*. Invited paper presented at the Fourth International Objective Measurement Workshop, Chicago.
- Carsrud, A. L., Olm, K. W., Dodd, B. G. & Gaglio, C. M. (1987, May). *Business initiation and success: A simulation study of personalities and organizational design*. Paper presented at the 1987 Babson College Entrepreneurship Research Conference, Malibu.
- Dodd, B. G. (1987, February). *How to help teachers build better classroom tests*. Invited paper presented at the Annual Texas Testing Conference, Austin.

- Dodd, B. G. & Koch, W. R. (1986, April). *Relative efficiency analyses for the partial credit model*. Paper presented as part of symposium on Latent Trait Methods for Partial Credit Scoring at the annual meeting of the American Educational Research Association, San Francisco.
- Koch, W. R. & Dodd, B. G. (1986, April). *Operational characteristics of adaptive testing procedures using partial credit scoring*. Paper presented as part of symposium on Latent Trait Methods for Partial Credit Scoring at the annual meeting of the American Educational Research Association, San Francisco.
- Dodd, B. G. & Koch, W. R. (1985, April). *Item and scale information functions for the partial credit model*. Paper presented at the annual meeting of the American Educational Research Association, Chicago.
- Koch, W. R. & Dodd, B. G. (1985, April). *Computerized adaptive attitude measurement*. Paper presented at the annual meeting of the American Educational Research Association, Chicago.
- Carsrud, A. L., Olm, K. W., Thomas, J. B. & Dodd, B. G. (1984, August). *Business profitability: A simulated study of personalities and organizational success*. Paper presented at the annual meeting of the American Psychological Association, Toronto.
- Carsrud, A. L., Dodd, B. G., Helmreich, R. L. & Spence, J. T. (1982, August). *Predicting performance: Effects of scholastic aptitude, achievement motivation, past performance, and attributions*. Paper presented at the annual meeting of the American Psychological Association, Washington, D.C.
- Stipnieks, A. & Dodd, B. (1981). *Summary of findings for the VENCEREMOS Bilingual Education Program in New Braunfels Independent School District*. Paper presented as part of symposium on Designing Valid Bilingual Program Evaluation at the annual meeting of the Evaluation Network Conference, Austin.
- Carsrud, A. L., Carsrud, K. B. & Dodd, B. G. (1980, August). *Randomly monitored staff utilization of behavior modification techniques: Long-term effects on clients*. Paper presented at the annual meeting of the American Psychological Association, Montreal.
- Dodd, B. G. & Stanley, L. R. (1979). *Attribution under conditions of abrupt performance shifts*. Paper presented at the annual meeting of the Southwestern Psychological Association, San Antonio.
- Dodd, B. G. & Stanley, L. R. (1978). *Sequences of success and failure as a determinant of persistence and causal attribution*. Paper presented at the annual meeting of the Southwestern Psychological Association, New Orleans.

Dodd, B. G., Stanley, L. R. & Saunders, S. S. (1978). *Effects of acquisition sequence on massed and spaced continuous delay performance*. Paper presented at the annual meeting of the Southwestern Psychological Association, New Orleans.

Wegner, D. M., Rosson, M. B., Dodd, B. G. & Onorato, V. (1978). *Attributional effects on event salience*. Invited paper presented at the annual meeting of the Midwestern Psychological Association, Chicago.

Stanley, L. R. & Dodd, B. G. (1976). *Effects of N-length on the human PREE*. Paper presented at the annual meeting of the Southwestern Psychological Association, Albuquerque.

Editor

Journal of Educational Measurement (2002 - 2004)

d'news (1999 – 2001)

Editorial Boards

Journal of Computerized Adaptive Testing (2012 - present)

Journal of Educational Measurement (2005 - present)

Journal of Applied Measurement (2000 - present)

Educational and Psychological Measurement (1990 - present)

Journal of Experimental Education (1997 - 2006)

Journal of Outcome Measurement (1996 -1999)

Educational Measurement: Issues and Practice (1995 -1997)

Guest Reviewer

6/08 – present *Educational Assessment*

2/08 - present *Archives of Physical Medicine and Rehabilitation*

4/08 - present *Behavior Research Methods*

3/08 - present *Educational Evaluation and Policy Analysis*

11/07 - present *Journal of International Testing*

8/95 - present *Psychological Methods*

1/95 - present *Psychometrika*

5/94 - present *Applied Psychological Measurement*

6/91 - present *Applied Measurement in Education*

11/91 - 2001 *Journal of Chemical Education*

12/91 - 2001 *Journal of Educational Measurement*

6/92 - 12/94 *Educational Measurement: Issues and Practice*

5/90 - 5/93 *Educational Psychologist*

Awards

- Pearson Professorship in Psychometrics 2011 - present
- Dean's Fellow for the Academic Year 2010 - 2011, The University of Texas at Austin
- Appointed as a Fellow, Cissy McDaniel Parker Fellow Fund for 2008-2012
- Appointed as a Fellow to the A. M. Aikin Regents Chair in Junior and Community College Education Leadership for 2005 – 2008
- Visiting Scholar, ACT, Inc., May, 2004
- Big XII Faculty Fellowship, Spring, 2004, The University of Texas at Austin
- Dean's Fellow for Spring, 2003, The University of Texas at Austin
- Dean's Award for Outstanding Research in Education and/or Human Development for the 1988-1989 Academic Year, The University of Texas at Austin
- Benjamin and Dorothy Fruchter Annual Prize for Excellence in Educational Psychology Research at the Doctoral Level for the 1984 Calendar Year, The University of Texas at Austin
- Honorable Mention University of Texas at Austin Outstanding Dissertation Award

Grants

- The Collage Board; August 2013 – May 2014; \$20,100, The Feasibility of a Mixed-Format Multistage Adaptive Test Administration for the SAT Critical Reading Section
- Pearson, 2013-2014, \$33,600. Graduate Student Research Assistantship for the UT Pearson Center for Applied Psychometric Research
- Pearson, 2012-2013, \$33,600. Graduate Student Research Assistantship for the UT Pearson Center for Applied Psychometric Research
- Pearson, 2012-2014, \$30,000 (\$10,000 per year). Gift to support the Pearson Center for Applied Psychometric Research.
- Pearson, 2011-2012, \$33,600. Graduate Student Research Assistantship for the UT Pearson Center for Applied Psychometric Research
- Pearson Foundation, 2011, \$13,563. Gift to support the Pan Pearson Research Conference held at UT in February 2010.
- Pearson, 2010-2011, \$33,600. Graduate Student Research Assistantship for the UT Pearson Center for Applied Psychometric Research.
- Joe E. Covington Award; June 2010 – October 2010, \$7,000, National Conference of Bar Examiners, Applying the Multistage Test Approach to the Multistate Bar Examination
- Pearson Foundation, 2009-2013, \$1,000,000 (\$200,000 per year) endowment for the Pearson Center for Applied Psychometric Research, the Pearson Endowed Professorship in Psychometrics, and the Pearson Endowed Faculty Fellowship in Psychometrics
- The College Board; September, 2009 – October, 2010; \$26,100, Incorporating a Testlet Response Theory-Based Scoring Approach into the SAT: Potential Advantages and Disadvantages

- The College Board, July, 2007 – December, 2007, \$22,850, A Comparison of College Performance of Matched AP and Non-AP Student Groups
- The Association of American Medical Colleges, May, 2007 – October, 2007, \$7,500, Strategies for Controlling Item Exposure in the Physical Science Section of the MCAT with the Partial Credit Model
- The College Board, August 2006 – October 2007, \$26,100, An Examination of Admissions Decisions and Use of Essays
- The College Board, August, 2005 – May, 2006, \$42,280, An Investigation of College Performance of AP and Non-AP Student Groups
- The College Board, July, 2002 – August, 2003, \$25,500, An Evaluation of the College-Level Examination Program: Institutional Implementation and Subsequent Student Performance
- The Association of American Medical Colleges, May, 2002 – October, 2002, \$6,000, A Comparison of Exposure Control Procedures in CAT Systems based on Different Measurement Models for Testlets.
- The Association of American Medical Colleges, May, 2001 – October, 2001, \$6,000, An Examination of Testlet Scoring and Item Exposure Constraints in the Verbal Reasoning Section of the MCAT
- The College Board, September, 2000 – February, 2002, \$52,606, An Investigation of the Validity of AP Grades of 3 and a Comparison of AP and Non-AP Student Groups

Teaching Experience

Graduate Courses:

Test and Scale Construction

Advanced Psychometric Research

Applied Psychometrics

Psychometrics - Measurement and Evaluation

Educational Research Methodology

Psychometrics: Theory and Methods

Computerized Adaptive Testing

Item Response Theory

Advanced Psychometrics Seminar

Undergraduate Courses:

Introduction to Statistics