**HENRY BRAUN**

**Boisi Professor of Education and Public Policy**

**Department of Measurement, Evaluation, Statistics and Assessment**

**Director, Center for the Study of Testing, Evaluation and Education Policy**

**Lynch School of Education & Human Development, Boston College**

(braunh@bc.edu)

(617 552 4638)

**EMPLOYMENT HISTORY**

2007- Boisi Professor of Education and Public Policy, Boston College

Director, Center for the Study of Testing, Evaluation and Education Policy, Boston College

1999-2006 Distinguished Presidential Appointee, Educational Testing Service, Princeton, NJ [Retired 1/1/2007]

2000-2001 Managing Director, ETS Literacy Services, Educational Testing Service, Princeton, NJ

1990-1999 Vice President for Research Management, Educational Testing Service, Princeton, NJ

1982-1990 Executive Director, Division of Statistical and Psychometric Research, Educational Testing Service, Princeton, NJ

1981-1982 Senior Research Scientist, Division of Measurement, Statistics, and Data Analysis Research, Educational Testing Service, Princeton, NJ

1979-1981 Research Scientist, Division of Measurement, Statistics, and Data Analysis Research, Educational Testing Service, Princeton, NJ

1978-1979 Faculty Associate, Office of Population Research, Princeton University, Princeton, NJ

1973-1979 Assistant Professor, Department of Statistics, Princeton University, Princeton, NJ (Director of Graduate Studies, 1974-77)

**EDUCATION**

Stanford University 1974 Ph.D. Mathematical Statistics

Stanford University 1972 M.S. Mathematical Statistics

McGill University 1970 B.S. Mathematics (honors)

**AWARDS AND HONORS**

Elected Member, American Academy of Arts & Sciences (2023)

NCME Career Award for Contributions to Educational Measurement (2023)

AERA. E.F. Lindquist Award (2021)

AERA (Division D). Robert L. Linn Memorial Lecture Award (2018)

National Academy of Education, Elected Member (2017)

Anne Anastasi Lecture, Fordham University (2014)

Thomas Alexander Fellowship, OECD (2014)

Fellow, American Educational Research Association (2009)

Co-recipient of the National Council for Measurement in Education Award for Outstanding Technical Contribution to the Field of Educational Measurement (1999)

Fellow, American Statistical Association (1991)

Co-recipient, Palmer O. Johnson Award of the American Educational Research Association (1986)

**VISITING APPOINTMENTS**

1995-2008 Consulting Research Faculty, Fielding Graduate University

1985 Visiting Professor (part-time), Rutgers University, New Brunswick, NJ

1984-1989 Visiting Lecturer, Woodrow Wilson School for Public and International Affairs, Princeton University, Princeton, NJ

1982-1988 Member of the Research Staff, Office of Population Research, Princeton University, Princeton, NJ

1978-1981 Visiting Investigator, Sloan-Kettering Institute for Cancer Research, New York, NY

1977-1978 Visiting Statistician and External Lecturer, Institute of Mathematical Statistics, University of Copenhagen

**SPECIAL LECTURESHIPS**

1997 Department of Educational Technology, East China Normal University, Shanghai, China

1996 National Centre for University Entrance Examinations, Tokyo, Japan

1992 National Institute for Testing and Evaluation, Jerusalem, Israel

1979-80 VUB Professorship, The Free University of Brussels, Belgium

**OTHER TEACHING EXPERIENCE**

1986 Lecturer, Summer Seminar of the East-West Center, Population Institute, Honolulu, Hawaii

1985 Lecturer, Short Course on "Survival Analysis," Centers for Disease Control, Atlanta, Georgia

1984 Summer Institute, Franklin and Marshall College, Lancaster, PA

1976-1998 Lecturer, Short Courses on "Advances in Data Analysis," University Associates

**CONSULTING EXPERIENCE (Selected)**

2017- Curriculum Associates

2016- IEA (Amsterdam)

2015-2016 National Education Association

2010- Organization for Economic Cooperation & Development (OECD)

2007- Educational Testing Service

2007 Connecticut Teachers Association

2007-08 Cisco Systems

2001 U.S. Department of Education (PT3), Washington, DC

1993 U.S. Department of Labor (SCANS), Washington, DC

1989 Department of Health, State of New Jersey

1988 U.S. Sentencing Commission, Washington, DC

1986-1988 Centers for Disease Control, Atlanta, GA

1986-1987 Commonwealth Fund, New York

1978-1983 Biostatistical Laboratory, Sloan-Kettering Institute for Cancer Research, New York

1979-1982 Employment litigation

1974-1978 NBC Election News

**EDITORIAL DUTIES**

2017- Associate Editor, Educational Evaluation and Policy Analysis

2013-2019 Associate Editor, Journal of Educational Change

2007- Associate Editor, Education Policy Analysis Archives

1982-1992 Associate Editor, Journal of Educational Statistics

1979-1986 Associate Editor, Journal of the American Statistical Association

**AFFILIATIONS**

American Educational Research Association

National Council on Measurement in Education

**PATENTS**

Computer-based simulation examination of architectural practice. U.S. Patent #6,056,556 (May 2000)

**SERVICE**

Served as a member of panels under the aegis of the Institute of Education Sciences, National Science Foundation, National Institutes of Health and Board on Testing and Assessment. Recent memberships include:

2019- Technical Advisory Committee, Department of Education, Michigan

2018- New Meridian Corp., Technical Advisory Committee

2017- National Academy of Education, Research Advisory Council

2016- National Council for Measurement in Education, Publications Committee

2016- Technical Advisory Committee, Department of Education, Arkansas

2013- Board of Trustees, National Center for Assessment (NCIEA)

2013- Technical Executive Group, IEA

2011- Educator Effectiveness Technical Advisory Committee, State of Georgia

2010-2017 Technical Advisory Committee, Partnership for the Assessment of College and Career Readiness (PARCC)

2009- Technical Advisory Group, Program for the International Assessment of Adult Competencies (PIAAC), OECD/ ETS

2008-2018 MCAS Technical Advisory Committee, Massachusetts State Department of Education

1996- International Advisory Board, National Institute for Testing and Evaluation, Jerusalem, Israel

**PAST SERVICE**

2015-2017 Steering Committee, National Academy of Education, Working Group on International Large-scale Assessment Surveys

2014-2016 Technical Advisory Committee, PACE, New Hampshire

2014-2016 Chair, Research Advisory Committee, The College Board

2007-2016 Chair, Technical Review Panel, National Indian Education Study (National Center for Education Statistics and Office of Indian Education)

2013 Chair, Working Group on value-added measurement, AHELO (OECD)

2012-2015 Technical Advisory Committee, Illinois State Board of Education

2011 Steering Committee, Workshop on Key National Education Indicators (BOTA, National Research Council)

2010-2011 Technical Advisory Committee, Non-tested grades and subjects, Louisiana State Department of Education

2010-2011 Massachusetts Task Force on the Evaluation of Teachers and Administrators

2009-2011 Statistics and Modeling Scientific Review Panel, Institute of Education Sciences, U.S. Department of Education

2008-2009 Chair, Committee on Value-added Methodologies for Instructional Improvement, Program Evaluation, and Accountability (BOTA, The National Research Council).

2007-2008 Study Panel on Incentives in Test- based Accountability Systems (BOTA, The National Research Council)

2007 Study Panel on the Introduction of Computer-based Testing in National Longitudinal Studies (National Institute of Statistical Sciences)

1998 International Advisory Committee, National Center for University Entrance Examinations (Japan)

1990-1993 Science Advisory Board, Rider College

1990-1991 Testing Committee attached to SCANS, US Department of Labor

1989-1992 Chairman, Management Committee, Journal of Educational Statistics

1987-1989 Management Committee, Journal of Educational Statistics

1978-1984 Advisory Council, Multi-City Air Pollution and Health Study, Harvard School of Public Health

**DOCTORAL STUDENTS**

Donna F. Stroup [Chair] Princeton University (1981)

Amy Schmidt Graduate Center, CUNY (2000)

Wei Tao Boston College (2008)

Yi Shang [Chair] Boston College (2009)

Kathleen Trong Boston College (2009)

Yun Xiang [Chair] Boston College (2009)

Dana Diaconu [Chair] Boston College (2012)

Terry Lee-St. John [Chair] Boston College (2013)

Matthew Welch Boston College (2012)

Caroline Wang [Chair] Boston College (2012)

Yan Zhao [Chair] Boston College (2014)

Katherine Shields Boston College (2014)

Jiefeng Hu [Chair] Boston College (2015)

Chen An [Chair] Boston College (2015)

Beth Morton [Chair] Boston College (2017)

Dana Milne [Chair] Boston College (2017)

Raquel Magadin [Chair] Boston College (2017)

Ariane de Gayardon Boston College (2017)

Martin Hooper Boston College (2017)

Bercem Akbayim [Chair] Boston College (2018)

Courtney Castle [Chair] Boston College (2018)

Avery Newton Boston College (2019)

Jing Jiang Boston College (2019)

Shiya Yi [Chair] Boston College (2020)

David Bamat [Chair] Boston College (2021)

Gulsah Gurkan [Chair] Boston College (2021)

Kaitlyn Tuthill [Chair] Boston College (2022)

Noman Khanani Boston College (2022)

Jenny Jung Boston College (2024, expected)

Jorge Mahecha [Chair] Boston College (2025, expected)

Larry Kaplan Boston College (2025, expected)

**BOOKS, MONGRAPHS, AND SPECIAL PUBLICATIONS**

*Another Look at U.S. Gender-based Wage Disparities: Insights from PIAAC.* (with G.Gurkan).(2023). Princeton, NJ: ETS Center for Human Capital and Education.

*A New Strategy for TIMSS Quality Assurance: Design and Implementation.* (with M. von Davier). (2023). Boston College: TIMSS and PIRLS International Study Center.

*Modifying Procedures for Declaring Significant Trends in TIMSS and PIRLS.*(with M. von Davier) (2023). Boston College: TIMSS and PIRLS International Study Center.

*The Cognitive Outcomes of Liberal Education*. White Paper. (2018). New York: Mellon Foundation.

*Choosing our Future: A Story of Opportunity in America*. Documentary Film. (Co-executive producer with I. Kirsch). (2016). Retrieved from https://vimeo.com/user20093090/review/174568134/f0eb6069d6

*Choosing our Future: A Story of Opportunity in America*. Monograph. (with I. Kirsch, M. Lennon, & A. Sands). Princeton, NJ: Educational Testing Service. (2016). Retrieved from http://opportunityproject.ets.org/

*Review of evaluation and assessment in the Netherlands* (with D. Nusche, G. Halasz, & P.Santiago). Paris: OECD. (2014).

International Survey Assessments: The other side of the coin. *Education Week* blog.

*Data-driven Improvement and Accountability* (with A. Hargreaves). Policy Brief. Boulder, CO: National Education Policy Center. (2013).

*Leading for All: A research report of the development, design, implementation and impact of Ontario’s “Essential for Some, Good for All” initiative* (with A. Hargreaves and others). Toronto, Ontario: Council of Ontario Directors of Education. (2012).

*The Many Facets of Growth Modeling*. Briefing Paper for the PARCC Leadership Team (September, 2012).

Educator Accountability: A magic bullet… or just a bullet? *Educator Echo* (in Hebrew). (2011).

*Issues in Measuring Growth and Conducting Productivity Analyses*. Princeton, NJ: The Center for K-12 Assessment and Performance Management at ETS (2010).

*The Relationship Between Mathematics Teachers’ Content Knowledge and Students’ Mathematics Achievement: Exploring the Predictive Validity of the Praxis Series Middle School Mathematics Test* (with R. Tannenbaum and C. Trapani). Princeton, NJ: Educational Testing Service (2009).

*Exploring What Works in Science Instruction: A Look at the Eighth Grade Science Classroom* (with R. Coley, Y. Jia, and C. Trapani). Princeton, NJ: Policy Information Center, Educational Testing Service (2009).

*Measuring Improvements in Learning Outcomes: Best Practices to Assess the Value-added of Schools*. (with the OECD Value-added Expert Group). Paris, France: OECD (2008).

*America’s Perfect Storm: Three Forces Changing our Nation’s Future* (with I. Kirsch, K. Yamamoto, and A. Sum). Princeton, NJ: Policy Information Center, Educational Testing Service. (2007).

*A Closer Look at Charter Schools Using Hierarchical Linear Modeling* (with F. Jenkins and W. Grigg). U.S. Department of Education, National Center for Education Statistics, Institute of Education Sciences (NCES 2006-260). Washington, DC: U. S. Government Printing Office.

*Comparing Private Schools and Public Schools Using Hierarchical Linear Modeling* (with F. Jenkins and W. Grigg). U.S. Department of Education, National Center for Education Statistics, Institute of Education Sciences (NCES 2006-461). Washington, DC: U. S. Government Printing Office.

Using Assessment to Improve Education in Developing Nations. pp. 1-46 in *Improving Education through Assessment, Innovation, and Evaluation*, (with Anil Kanjee, Eric Bettinger, and Michael Kremer). Cambridge, MA: American Academy of Arts and Sciences. (2006).

*Using Student Progress to Evaluate Teaching: A Primer on Value-added Models*. Princeton, NJ: Policy Information Center, Educational Testing Service. (2005).

Bejar, I. I., & Braun, H. (1999). *Architectural simulations: From research to implementation: Final report to the National Council of Architectural Registration Boards* (ETS RM-99-2) Princeton, NJ: Educational Testing Service.

*Testing handicapped people* (with W. Willingham, M. Ragosta, R. Bennett, D. Rock, & D. Powers). Needham Heights, MA: Allyn & Bacon, 1988.

*Athletics and academics in the freshman year: A study of the academic effects of freshman participation in varsity athletics* (with I. Broudy, J. Flaugher, N. Robertson, J. Maxey, M. Kane, & R. Sawyer). American Association of Collegiate Registrars and Admissions Officers, 1984.

**EDITED VOLUMES**

*International Education Assessments: Cautions, Conundrums, and Common Sense*. J.D. Singer, H.I. Braun and N. Chudowsky (Eds.). Washington DC: National Academy of Education. (2018).

*The dynamics of opportunity in America: Evidence and perspectives*. I. Kirsch and H. I. Braun (Eds.). New York: Springer. (2016).

*The challenges to measurement in an era of accountability*. H. Braun (Ed.). New York: Routledge. (2016).

*Getting value out of value-added*. H. Braun, N. Chudowsky, & J. Koenig (Eds.). Washington, DC: C. National Academies Press, 2010., 27

*The role of constructs in psychological and educational measurement*. H. Braun, D. N. Jackson, & D. E. Wiley (Eds.). Hillsdale, NJ: Lawrence Erlbaum, 2002.

*The collected works of John Tukey, Vol. VIII. (Multiple Comparisons)*. H. Braun (Ed.). New York, NY: Chapman & Hall, Inc., 1994.

*Test validity*. H. Braun & H. Wainer (Eds.). Hillsdale, NJ: Lawrence Erlbaum, 1988.

**IN REFEREED JOURNALS**

Expertise on Offer: Why Isn’t Anyone Buying? Braun, H.I. (2023). Journal of Educational and Behavioral Statistics, 48(5), 547-572. doi: 10.3102/10769986231160671

Applying Variable- and Person-centered Approaches in the Study of Higher Education Learning Outcomes (with E. Angel, A. Friedman). Journal of Moral Education (2023). DOI: 10.1080/03057240.2023.2252615

Accountability and Assessment in U.S. Education: Let’s not let another crisis go to waste! (with S.F. Marion). *Assessment in Education: Principles, Policy & Practice*. (2022).

An Enhancement to the Theory and Measurement of Purpose (with L. Ludlow, T. O’Keefe, E. Angell, O. Szendey, C. Matz, B. Howell). *Practical Assessment, Research and Evaluation*, 27(4). <https://scholarworks.umass.edu/pare/vol27/iss1/4> (2022)

Measuring Purpose in Life in College Students: An Assessment of Invariance Properties by College Year and Undergraduate School (with E. Angell, L. Ludlow, O. Szendey, C. Matz-Costa, T. O’Keefe). *International Journal of Educational Methodology*, 7(4), 603-614. (2021).

Data in the Educational and Social Sciences: It’s Time for Some Respect. *International Journal of Educational Methodology*, 7(3), 447-463. (2021).

College Students’ Critical Thinking: Assessment and Interpretation (with E. Angel, A. Friedman, M. Baez-Cruz). *Journal of Higher Education Theory and Practice* 21(10), 36-53. (2021).

Large-scale Assessments in Education Defensible Inferences from a Nested Sequence of Logistic Regressions: A Guide for the Perplexed (with G. Gurkan, Y. Benjamini). *Large-Scale Assessments in Education* (2021).

Promoting Liberal Education Through the Longitudinal Study of Critical Thinking: A Rationale and Plan (with K. Borowiec). *Journal of Supranational Policies of Education*, 13, 125-144. (2021).

Performance Assessment of Critical Thinking: Conceptualization, Design and Implementation (with R. Shavelson, O. Zlatkin-Troitschanskaia, K. Borowiec). *Frontiers in Education*. (2020).

Changing Times, Changing Needs: Enhancing the Utility of International Large-Scale Assessments (with I. Kirsch). *Large-Scale Assessments in Education*. (2020)

Novice Middle School Teachers’ Preparedness for Teaching and the Helpfulness of Supports: A Survey of One State. (with B. Chaney and F. Jenkins). *Education Policy Analysis Archives,* 28, 107. (July 20, 2020).

The Boston College Living a Life of Meaning and Purpose (BC-LAMP) Portfolio: An Application of Rasch/Guttman Scenario Methodology. (with L. Ludlow, E. Angel, O. Szendey, et al.). *Journal of Applied Measurement*, 21(2), 134-153. (2020).

International Large-Scale Assessments to Monitor Education Systems (with J.D. Singer). *American Academy of Political and Social Science*, 75-92. (2019).

Performance Assessment and Standardization in Higher Education: A Problematic Conjunction*? British Journal of Educational Psychology*. (2019).

How long is the shadow? The relationships of family background to selected adult outcomes. *Large-Scale Assessments in Education* 6:4. https://doi.org/10.1186/s40536-018-0058-x. (2018)

Commentary on Special Issue Papers. *Educational Measurement: Issues and Practice*, 37(4), 57-60. http://dx.doi.org A/10.1111/emip.12232 (2018).

Examining Estimates of Intervention Effectiveness Using Sensitivity Analysis (with C. An). *Educational Measurement: Issues and Practice*, 37(2), 45-53. (2018).

Testing International Assessments: Rankings Get Headlines, But Often Mislead (with J.D. Singer). *Science*, 360 (6384), 38-40. (6 April, 2018).

The use of test scores from large scale assessment surveys: psychometric and statistical considerations (with M. von Davier). *Large-scale Assessments in Education*, 5:17 (2017) (DOI 10.1186/s40536-017-0050-x. (2017)

Taming inflation is never easy. *Measurement: Interdisciplinary Research & Perspective*, 13, pp. 31-34. (2015).

The value in value-added depends on the ecology. *Educational Researcher*, 44(2), pp. 127-131. (2015).

Merits of international assessments. *Quality Assurance in Education*, 22(4), pp. 332-334. (2014).

Value-added modeling and the power of magical thinking. *Ensaio: Evaluation of Public Policies in Education* [Brazil], 21, pp. 115-130 (2013).

Conceptions of validity: The private and the public*. Measurement: Interdisciplinary Research & Perspective*,10, pp. 46-49. (2012).

Can roadmaps tell us whether we are off-course? *Measurement: Interdisciplinary Research & Perspective*. (2011).

An experimental study of the effects of monetary incentives on performance on the 12th grade NAEP reading assessment. (with I. Kirsch & K. Yamamoto). *Teachers College Record* (2011, no. 11)).

The Black-White achievement gap revisited. (with L. Chapman and S. Vezzu). *Education Policy Analysis Archives*, 18(21). September 10, 2010.

An investigation of bias in reports of the National Assessment of Educational Progress (with J. Zhang and S. Vezzu). *Educational Evaluation and Policy Analysis*, 32(1), 24-43. (2010)

Discussion: With choices come consequences. *Educational Measurement: Issues and Practice* (2009).

Using assessment and feedback to enhance learning: Examining the relationship between teachers’ reported use of assessment and feedback and student performance in AP Biology (with E. Ponte, P. Paek, et al.). *Journal of MultiDisciplinary Evaluation*, 6(12), 2009.

The Black-White achievement gap: Do state policies matter? (with Wang, A., Jenkins, F., & Weinbaum, E.). *Education Policy Analysis Archives*, 14(8). Retrieved [4-20-06] http://epaa.asu.edu/epaa/v14n8/. March 20, 2006.

Intuitive test theory (with R. J. Mislevy). *Phi Delta Kappan*, 86(7) pp. 489-497, March, 2005.

Numbers and the remembrance of things past (with H. Wainer). *Chance*, 17(1), pp. 44-48, March, 2004.

Reconsidering the impact of high-stakes testing. *Education Policy Analysis Archives*, 12(1). Retrieved [3-23-04] from http://epaa.asu.edu/epaa/v12n1/, January 5, 2004.

John W. Tukey’s contributions to multiple comparisons (with Y. Benjamini). *Annals of Statistics*, 30(6), 1576-1594, 2003.

On the synergy between assessment and instruction: Early lessons from computer-based simulations (with I. Bejar). *Machine Mediated Learning: An International Journal*, 4(1), 5-25, 1994.

Empirical Bayes analysis of families of survival curves: Applications to the analysis of degree attainment (with R. Zwick). *Journal of Educational Statistics*, 18(4), 285-303, 1993.

Scoring constructed responses using expert systems (with R. Bennett, D. Frye, & E. Soloway).  *Journal of Educational Measurement*, 27(2), 93-108, Summer 1990.

The relationship of expert-system scored constrained free-response items to multiple-choice and open-ended items (with R. Bennett, D. Rock, D. Frye, J. Spohrer, & E. Soloway). *Applied Psychological* *Measurement*, 14(2), 151-162, June 1990.

A new approach to avoiding problems of scale in interpreting trends in mental measurement data. *Journal of Educational Measurement*, 25(3), 171-191, Fall 1988.

Understanding scoring reliability: Experiments in calibrating essay readers. *Journal of Educational Statistics*, 13(1), 1-18, 1988.

Child health, breastfeeding and survival in Malaysia: A random effects logit approach (with M. Montgomery & T. Richards). *Journal of the American Statistical Association*, 81, June 1986.

On the apparent clustering of clonal albumin production and enzyme activity levels (with H. T. Thaler). *Biometrics*, 40, December 1984.

The scale-linkage algorithm: Construction of a universal criterion scale for families of institutions (with T. H. Szatrowski). *Journal of Educational Statistics*, 9(4), 311-330, Winter 1984.

Validity studies based on a universal criterion scale (with T. H. Szatrowski). *Journal of Educational Statistics*, 9(4), 331-334, Winter 1984.

Empirical Bayes estimates of coefficients in the general linear model from data of deficient rank (with D. Jones, D. Rubin, & D. Thayer). *Psychometrika*, 48, 171-187, 1983.

On a new stopping rule for stochastic approximation (with D. F. Stroup). *Zeitschrift fur Wahrscheinlichkeitstheorie und verwandte Gebiete*, 60, 535-554, 1982.

Testing in robust ANOVA (with D. R. McNeil). *Communications in Statistics: Theory and methods*, A10, 149-165, January 1981.

A regression-like analysis of birth interval sequences. *Demography*, 17, 207-221, May 1980.

A simple method for testing goodness-of-fit in the presence of nuisance parameters. *Journal of the Royal Statistical Society*, B 42, 53-63, April 1980.

A three-and-half year experience with double Lumen breast implants (with A. Ellenberg). *Journal of Plastic and Reconstructive Surgery*, 307-313, March 1980.

Statistical methods for measuring and comparing treatment efficacies: Applications to heterotransplants in nude mice (with M. Lesser & L. Helson). *Journal of Experimental Cell Biology*, 126-137, April 1980.

Polynomial bounds for probability generating functions, II. *Zeitschrift fur Wahrscheinlichkeitstheorie und verwandte Gebiete*, 42, 13-21, January 1978.

Stochastic stable population theory in continuous time. *Scandinavian Actuarial Journal*, 185-203, October 1978.

Weak convergence of sequential linear rank statistics. *The Annals of Statistics*, 4(3), 554-575, May 1976.

Polynomial bounds for probability generating functions. *Journal of Applied Probability*, 12, 507-514, September 1975.

**IN EDITED VOLUMES**

21st century skills and learning: A case study of developments and practices in the United States. In Dobryakova, M., Froumin, I., et al. (Eds). *Key Competencies and New Literacy: From Slogans to School Reality.* (with M.K. Russell, & B. Zhu). Moscow, Russia: World Bank. (2023)

ETS research on statistics. In Bennett, R. E., & von Davier, M. (Eds). *Shaping the Landscape of Educational Measurement and Evaluation: Improving Measurement Practice*. New York: Springer. (2017).

Student Growth Measures in Evaluation: Illusions of Fairness? In Hewitt, K.K. & Amrein-Beardsley, A., (Eds.). *Student Growth Measures in Policy and Practice: Intended and Unintended Consequences of High-Stakes Teacher Evaluations*. Palgrave Macmillan: New York. (2016).

The challenges to measurement in an era of accountability: Introduction and overview. In Braun, H. I. (Ed.). *The challenges to measurement in an era of accountability*. New York: Routledge. (2016).

Opportunity in America: Setting the stage. (with I. Kirsch). In Kirsch, I., & Braun, H. I. (Eds.) *The dynamics of opportunity in America: Evidence and perspectives*. New York: Springer. (2016).

The Dynamics of Opportunity in America: A working framework. In Kirsch, I., & Braun, H. I. (Eds.) *The dynamics of opportunity in America: Evidence and perspectives*. New York: Springer. (2016).

The relationship of problem solving in technology-rich environments to literacy and numeracy: Insights from PIAAC. In Kirsch, I., Gonzalez, E., von Davier, M., and Yamamoto, K. (Eds.) *The Importance of* *Skills and How to Assess Them: Results from PIAAC*. New York: Springer (2015).

The Changing Dynamic of Educational Judgment and Decision Making in a Data-Driven World. (with A. Hargreaves, B. Morton and A.Gurn). In Chitpin, S. & Eves, C. (Eds.) *Decision-Making in Educational Leadership: Principle, Policies and Practice*, Springer Books. (2014).

Value-added measurement: Report from the Expert Group Meeting. *AHELO Feasibility Study Report*, Vol. 3, Chap. 10, pp. 9-26. Paris: OECD. (2013).

Prospects for the future: A framework and discussion of directions for the next generation of international large-scale assessments. In M. von Davier, I. Kirsch, K. Yamamoto & E. Gonzalez (Eds.). *The role of international large-scale assessments: Perspectives from technology, economy and educational research* Princeton, NJ: Springer Science and Business Media. (2013). pp. 149-160.

An exploratory analysis of charter schools. (with C. Tang and K. M. Sheehan). In N. Dorans and S. Sinhary (Eds.) *Looking Back: Proceedings of a conference in honor of Paul W. Holland*. New York: Springer Science + Business Media. (2011).

AP Biology teacher characteristics and practices and their relationship to student AP exam performance (with E. Ponte, P. Paek, et al.). In P.M. Sadler, G. Sonnert, R. H. Tai & K. Klopfstein (Eds.) *A Critical examination of the Advanced Placement Program*. Cambridge, MA: Harvard University Press. (2010).

A prospective, progressive, and predictive approach to standard setting (with I.I. Bejar, and R Tannenbaum). In R.W. Lissitz (Ed.), *Assessing and Modeling Cognitive Development in School: Intellectual Growth and Standard Setting*. Maple Grove, MN: JAM press. (2007).

An Enhanced Method for Mapping State Standards onto the NAEP Scale (with J. Qian). In N. Dorans and M. Pommerich (Eds.), *Linking and Aligning Scores and Scales*. New York: Springer. (2007).

Value-added modeling (with H. Wainer). In C. R. Rao and S. Sinharay (Eds.), *Handbook of Statistics, vol. 27: Psychometrics*. Amsterdam: Elsevier Science. (2007).

Using Assessment to Improve Education in Developing Nations (with A. Kanjee). In J. E. Cohen, D.E.Bloom, and M.B. Malin (Eds.) *Educating All Children: A Global Agenda*. Cambridge, MA: American Academy of Arts and Sciences. (2006).

Rule based methods and mental modeling (with I. I. Bejar & D. M. Williamson). In D. M. Williamson, R. J. Mislevy, & I. I. Bejar (Eds.), *Automated Scoring of Complex Tasks in Computer Based Testing*. Mahwah, NJ: Lawrence Erlbaum. (2006).

Empirical Bayes. In J. Green, G. Camilli, and P. Elmore (Eds.), *Complementary Methods for Research in Education*. Washington, DC: American Educational Research Association. (2006).

Value-Added Modeling: What Does Due Diligence Require? In R. Lissitz (Ed.) *Value Added Models in Education: Theory and Applications*, pp. 19-39, JAM Press, 2005.

Assessment and Technology. In M. Segers, P. Dochy and E. Cascallar (Eds.) *Optimising New modes of Assessment*. Dordrecht, Netherlands: Kluwer, 2003.

A post-modern view of the problem of language assessment. In Anthony John Kunnan (Ed.) *Studies in Language Testing 9: Fairness and validation in language assessment. Selected papers from the 19th Language Testing Research Colloquium*, pp 263-272. Cambridge, UK: University of Cambridge, Local Examinations Syndicate, 2000.

Psychometrics (with S. S. Sireci & H. Wainer). In P. Armitage & T. Colton (Eds.), *Encyclopedia of Biostatistics*. London: John Wiley & Sons Ltd., 1998.

A school-based strategy for achieving and assessing work-readiness skills. In L. B. Resnick & J. G. Wirt (Eds.), *Linking School and Work - Roles for Standards and Assessment*, pp. 223-241. San Francisco, CA: Jossey-Bass, 1996.

Assessing technology in assessment. In E. L. Baker & H. F. O'Neil, Jr. (Eds.), *Technology Assessment in Education and Training*, pp. 231-246. Hillsdale, NJ: Lawrence Erlbaum, 1994.

Empirical Bayes methods: A tool for exploratory analysis. In R. D. Bock (Ed.), *Multilevel Analysis of Educational Data*, pp. 19-55. New York, NY: Academic Press, 1989.

Making test scores fairer with statistics (with H. Wainer). In Judith M. Tanur, et al (Eds.), *Statistics: A Guide to the Unknown*, 3rd Ed., 178-187. Pacific Grove, CA: Wadsworth & Brooks/Cole, 1989.

Predictive Validity (with M. Ragosta and B. Kaplan). In W. Willingham et al. (Eds.), *Testing Handicapped People*, pp. 109-132. Boston: Allyn and Bacon.

Multiple comparisons through orderly partitions: The maximum subrange procedure (with J. W. Tukey). *Principals of Modern Psychological Measurement: A Festschrift for Frederic M. Lord*, pp. 55-65. Hillsdale, NJ: Lawrence Erlbaum, 1983.

Observed score test equating: A mathematical analysis of some ETS equating procedures (with P. W. Holland). In P.W. Holland and D.B. Rubin (Eds.) *Test Equating*, pp. 9-49. New York: Academic Press, 1982.

Hierarchical clustering of nominal data (with D. Jones). In *American Statistical Association 1982 Proceedings of the Social Science Section*, 1982.

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**TECHNICAL REPORTS**

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**PRESENTATIONS (Selected)**

*Expertise on Offer: The Quest for Influence and Impact*. E.F. Lindquist Award Lecture. AERA Annual Meeting, San Diego California, April 24, 2022.

*Addressing Practical Challenges in the International Performance Assessment of Critical Thinking*. AERA Annual Meeting, San Diego California, April 24, 2022.

*Data in the Social Sciences: It’s Time for Some Respect*. R.L. Linn Award Lecture. AERA Annual Meeting. 2019.

*Assessment and Accountability in the Context of ARC System Values*. Thought Leader Presentation, Annual Meeting of the Atlantic Rim Collaboratory, Dublin, Ireland. September 16, 2017.

*Analysis of Data from PIAAC: Methodological Considerations and Preliminary Findings*. Keynote Address. Performance Modeling Workshop, Johannes-Gutenberg University, Mainz, Federal Republic of German. October 19, 2016.

*Choosing our Future*. Keynote Address. National Superintends Roundtable, San Francisco, July 16, 2016.

*Choosing our Future*. Keynote Address. Slate Innovation Summit. Chicago, June 30, 2016.

*Value-added in Evaluation: A Model too Far?* Teachers College. April 6, 2015.

*The VAM Chronicles*. Association of Test Publishers Annual Meeting. March 2, 2015.

*The Future of Assessment*. National Association of Independent Schools Annual Meeting, February 26, 2015.

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*The relationship of problem solving in technology-rich environments to literacy and numeracy: Insights from PIAAC*. PIAAC Invitational Research Conference, November 14, 2013.

*Validating educator accountability systems: An ecological perspective*. Educational Testing Service, Princeton, NJ. July 11, 2013.

*Technology-based formative assessment of 21st century skills*. National Conference on Student Assessment, National Harbor, MD. June 20, 2013.

*Evaluating teacher effectiveness using student progress*. Second Lisbon Research Workshop on Economics, Statistics, and Econometrics of Education. Lisbon, Portugal. January 18, 2013.

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*Accountability in the classroom: A prescription with side-effects*. Statistics Department, Carnegie Mellon University, March 28, 2012.

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*Test-based accountability: What do value-added methods have to offer?* Keynote address, Conference on Education, Van Leer Jerusalem Institute, Israel. January 5, 2012.

*American education policy: Trends, innovations, dilemmas*. Workshop, Van Leer Jerusalem Institute, Israel. January 5, 2012.

*The limits of evaluation*. Workshop, Mandel Leadership Institute, Jerusalem, Israel. January 1, 2012.

*Education Policy: Wandering in the wilderness, looking for the promised land*. June 27, 2011. Educational Testing Service.

*Understanding value-added*. March 15, 2011. Kansas Educators Working Groups.

*An experimental study of the effects of monetary incentives on performance on the 12th grade NAEP reading assessment*. March 2, 2010. Harvard Graduate School of Education.

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*Getting value out of value-added*. May 4, 2010. AERA Annual Meeting.

*Examining the SAT*. March 24, 2010. Georgetown University.

*Getting value out of value-added*. March 4, 2010. SREE Annual Meeting.

*America’s perfect storm: Three forces shaping our nation’s future*. February 5, 2009. School of Social Work, Boston University.

*Getting value from value-added*. May 1, 2009. SERU Symposium, Center for the Study of Higher Education, U. of California (Berkeley)

The Center for Assessment, E. F. Reidy, Jr. Interactive Lecture Series [Keynote Address], Portsmouth, NH, 2008.

AAU Education Deans, Annual Meeting, [Invited Address], 2008.

Israeli Statistical Association, Annual Meeting [Keynote Address], Herzliah, Israel, 2008.

National Institute for Testing and Evaluation, Jerusalem, Israel. 2008.

AERA/NCME, Annual Meetings, New York, 2008.

NEERO, Annual Meeting [Keynote Address], Portsmouth, New Hampshire, 2007.

Polish Central Examination Board, Warsaw, Poland, 2007.

AERA/NCME, Annual Meetings, Chicago, 2007.

AEA-E, Annual Meeting [Keynote Address], Naples, Italy, 2006.

CCSSO, Annual Meeting, San Francisco, CA, 2006.

Carnegie Foundation for the Advancement of Teaching, Centennial Conference, Princeton, NJ, 2006.

Institute for Education Sciences, Research Conference, Washington, DC, 2006.

National Academy of Sciences, Panel on NBPTS, Washington DC, 2006.

AERA/NCME, Annual Meeting, San Francisco, CA, 2006.

Association of Test Publishers, Annual Meeting, Orlando, Fl, 2006.

U. of Tokyo, Graduate School of Education; Japan Association for Research on Testing; National Center for University Entrance Examinations; Benesse Corporation, Tokyo, Japan, 2005.

Annual Meeting, AERA/NCME, Montreal, Canada, 2005.

National Council of State Legislatures, Napa, CA, 2005.

National Association of State Boards of Education, Washington, DC, 2005.

Conference on Value-added Models in Education, U. of Maryland, 2004.

Education Commission of the States, Orlando, CA, 2004.

Annual Meeting, AERA/NCME, San Diego, CA, 2004.

“Whither Assessment” Conference, Qualifications and Curriculum Authority, London, England, 2002.

State Adult Education Directors, U.S. Department of Education, Annual Meeting, Washington, DC, 2002.

Joint Statistical Meetings, New York, 2002.

Multiple Comparisons Procedures 2002, Baltimore, MD, 2002.

“Performance Assessments for Adult Education” Workshop, Board on Testing and Assessment, Washington, DC, 2001.

Special Meeting on Assessment, National Center for University Entrance Examinations, Tokyo, Japan 2001.

Annual Meeting, European Association for Research on Language & Instruction, Maastricht, Netherlands, 2000. [Closing Address]