



Sireci Psychometric Services, Inc.
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Sireci Psychometric Services, Inc. (SPS) is a network of Ph.D.-level psychometricians, educational researchers, and technology specialists that provides a wide variety of services to testing agencies; state and national departments of education, research institutions, professional associations, and other individuals and organizations. Established in 1989 and incorporated in 2006, SPS has conducted several formative audits of testing programs, and has provided services in the areas of test development, computer-based test design, test equating, item calibration, standard setting, conducting validity studies, and authoring technical manuals and other documentation for testing programs. In addition, SPS has provided seminars and training workshops for several organizations. Current and recent clients served by SPS include,

- Achieve
- ACT
- American Institute for Certified Public Accountants
- Association of American Medical Colleges
- Buros Center for Testing
- Center for Applied Linguistics
- College Board
- Curriculum Associates
- Data Recognition Corporation
- EdCount
- Educational Records Bureau
- Educational Testing Service
- Federation of State Boards of Physical Therapy
- Federation of State Medical Boards
- Gallup
- Graduate Management Admissions Council
- Learn.com
- Measured Progress
- National Academy of Sciences
- National Board on Professional Teaching Standards
- National Center on Educational Outcomes
- Questar
- SMARTER Balanced
- State Departments of Education in Florida, Maine, Mississippi, Montana, New Hampshire, Puerto Rico, New York, Rhode Island, Texas, Vermont
- WestEd

SPS is led by Stephen G. Sireci, Ph.D. who assembles teams of psychometricians and researchers to best serve the needs of the services needed by individual clients. All psychometric staff have doctorates in measurement or related fields and have extensive experience in educational testing and successful completion of research studies. Currently, the SPS psychometric team includes Kyung T. Han, Craig S. Wells, Wendy Lam, Jennifer Randall, April L. Zenisky, Lisa A. Keller, Kim Colvin, and Drey Martone. Other psychometricians used in the past include Krista Breithaupt, Ron Hambleton, Thanos Patelis, Kevin Sweeney, and Andrew Wiley. Brief biographies of current SPS staff follow.

Stephen G. Sireci, P.D.

Dr. Sireci is President of Sireci Psychometric Services, Inc., and Professor and Director of the Center for Educational Assessment in the College of Education at the University of Massachusetts Amherst. He earned his Ph.D. in psychometrics from Fordham University and his master and bachelor degrees in psychology from Loyola College in Maryland. Before UMASS, he was Senior Psychometrician at the GED Testing Service, Psychometrician for the Uniform CPA Exam and Research Supervisor of Testing for the Newark NJ Board of Education. He is known for his research in evaluating test fairness, particularly issues related to content validity, test bias, cross-lingual assessment, standard setting, and sensitivity review. He is the author of over 100 publications and conference papers. He currently serves or has served on several advisory boards including the National Board of Professional Teaching Standards Assessment Certification Advisory Panel, the Texas Technical Advisory Committee, and the Puerto Rico Technical Advisory Committee. He is also a Fellow of the American Educational Research Association and a Fellow of Division 5 of the American Psychological Association. Formerly, he was President of the Northeastern Educational Research Association (NERA), Co-Editor of the International Journal of Testing, a Senior Scientist for the Gallup Organization and a member of the Board of Directors for the National Council on Measurement in Education. In 2003 he received the School of Education's Outstanding Teacher Award, in 2007 he received the Chancellor's Medal, which is the highest faculty honor at UMASS, and in 2012 he received the Conti Faculty Fellowship from UMass. He has also received the Thomas Donlon Award for Distinguished Mentoring and the Leo Doherty Award for Outstanding Service from NERA. Professor Sireci reviews articles for over a dozen professional journals and he is on the editorial boards of Applied Measurement in Education, Educational and Psychological Measurement, the European Journal of Psychological Assessment, and Psicothema.

Craig S. Wells, Ph.D.

Dr. Wells is Chief Psychometric Consultant for SPS, and Associate Professor of Educational Policy, Research, and Administration at UMass Amherst. He received his Ph.D. and M.S. in psychometrics from the University of Wisconsin at Madison and his B.A. in psychology (honors) from Castleton State College. He is an active member of the National Council on Measurement in Education, the American Educational Research Association, and Northeastern Educational Research Association and is on the Editorial Board of Applied Measurement in Education. Recently, he received the School of Education's Award for Outstanding Teaching. Professor Wells' research interests center on the development and application of quantitative methods in the behavioral sciences. He is particularly interested in the area of item response theory, especially as related to differential item functioning, assessing model fit, and modeling item response functions nonparametrically, and more generally in the areas of nonparametric statistics and the theory of hypothesis testing. Currently, Professor Wells teaches graduate level courses in statistics, structural equation modeling, nonparametric modeling, and psychometric and statistical modeling.

Kyung (Chris) T. Han, Ed.D.

Dr. Han is Chief Psychometric Consultant for SPS, and Senior Psychometrician and Director for the Graduate Management Admissions Council. He received his doctorate in Research and Evaluation Methods/Psychometrics in 2008 from the University of Massachusetts Amherst and his Bachelors in Business Administration (with concentrations in Education and Science of Policy Administration) from Sung-Kyun-Kwan University in Seoul, S. Korea. He has received numerous awards for his accomplishments in psychometrics including the *Significant Contribution to Educational Measurement Award* from Division D of the American Educational Research Association, and three awards from the National Council on Measurement in Education (*NCME Annual Award*, *Alicia Cascallar Award for Outstanding Paper by Early Career Scholar*, and *Jason Millman Promising Measurement Scholar Award*). He is on the editorial board of the *Journal of Computerized Adaptive Testing* and reviews manuscripts for a dozen other measurement journals. He has more than 25 publications in peer-reviewed journals and book chapters and has developed several psychometric computer software packages such as *WinGen* and *SimulCat*. He is widely sought after for his research in item response theory, computerized-adaptive testing, test design, and scaling and equating, and has delivered numerous invited seminars and workshops in the USA, Korea, and Poland.

Wendy Lam, Ed.D.

Dr. Lam is Director of Psychometrics for Sireci Psychometric Services, Inc., and President of Broci Consultants, Inc. in Calgary, Alberta, Canada. She received her doctorate in Psychometric Methods from the University of Massachusetts Amherst in 2011. She is known for her work in item response theory modeling and test development. Prior to SPS, Dr. Lam has worked as a psychometrician for Alpine Testing and Harcourt, and has consulted with Paragon Language Testing, e-Metric, and several other testing and educational research organizations.

Jennifer Randall, Ph.D.

Dr. Randall is a Consultant for SPS, Associate Professor of Educational Policy, Research, and Administration, and Associate Dean for Academic Affairs at the College of Education at the University of Massachusetts Amherst. She received her Doctorate from Emory University in Atlanta, and earned a BA in Psychology and History, and a Master of Arts in Teaching, from Duke University. Dr. Randall's current research interests include formative assessment, survey research, test accommodations for students with disabilities, and applications of the Rasch IRT model. Her areas of specialization include research methodology, classroom assessment, and program evaluation. Professor Randall's work has been published in several academic journals including the *Journal of Educational Measurement*, *Applied Measurement in Education*, and the *Journal of Educational Research*.

April L. Zenisky, Ed.D.

Dr. Zenisky is a Consultant for SPS, and Research Professor and Director of Computer-Based Testing Initiatives at the Center for Educational Assessment, University of Massachusetts Amherst. She received her doctorate in 2004 from the University of Massachusetts Amherst and her Bachelor's in English and psychology from Amherst College. Her doctoral dissertation evaluated the effects of selected multi-stage testing design variables on the psychometric quality of licensure exams. She is a nationally renowned expert in the areas of large-scale assessment and computer-based testing. Her research has been published in *Applied Measurement in Education*, *the Journal of Educational Measurement*, and in several books and encyclopedias related to measurement and educational research. Currently, she oversees the computer-based testing program for adult basic education students in Massachusetts. Dr. Zenisky's research interests include innovative item types for computer-based testing, performance assessment, and computerized test designs. She is also Associate Editor for the *International Journal of Testing*.

Lisa A. Keller, Ed.D.

Dr. Keller is a Consultant for SPS and an Associate Professor of Educational Policy, Research, and Administration at the University of Massachusetts Amherst. She earned her doctorate in psychometrics and her M.S. in mathematics with an option in statistics from the UMass in 2002, and her B.S. in mathematics (magna cum laude) from St. Michael's College in 1993. Dr. Keller has expertise in multivariate statistics, Bayesian analysis, and psychometrics. She has served as an extended visiting scholar at Measured Progress, where she participates in standard setting, and conducts research with the psychometric staff. Her primary research interests focus on equating methodology and parameter estimation in Item Response Theory as well as applications of Generalizability Theory. Her work has been published in *Applied Measurement in Education*, *Applied Psychological Measurement*, *the Journal of the American Statistical Association*, *the Journal of Experimental Education* as well as in several encyclopedias related to social science research and psychometrics.

Kim Colvin, Ed.D.

Dr. Kimberly Colvin is a Consultant for Sireci Psychometric Services and Assistant Professor in the University at Albany's Division of Educational Psychology and Methodology. She received her doctorate in psychometrics from the University of Massachusetts Amherst and completed a post-doctoral research fellowship at the Massachusetts Institute of Technology (MIT). She holds a bachelor's and a master's degree in statistics and a master's in mathematics curriculum and instruction. For ten years she was a high school math teacher in central New York. Dr. Colvin's research focuses on computer-based assessments as well as the use of item response theory in the development and analysis of educational and psychological instruments.

Andrea Martone, Ed.D.

Dr. Martone is a Consultant for SPS and Associate Professor in the Teacher Education Department at the College of Saint Rose in Albany, NY. Previously, she was a Senior Research Associate in the Center for Educational Assessment at the University of Massachusetts where she oversaw the Massachusetts Adult Proficiency Test in Mathematics computerized-adaptive testing program. She is an expert in alignment methodology, common core standards, working with pre-service and in-service teachers on issues of formative and summative assessment, and she has published on topics such as alignment and the professional development of teachers.