

ABOUT THE AUTHORS



Uri Treisman is professor of mathematics and of public affairs at The University of Texas at Austin, where he directs the Charles A. Dana Center. He serves on the AACC 21st-Century Commission on the Future of Community Colleges and on the CCCSE National Advisory Board and is actively involved in organizations that work to improve American K–12 education. He was named a MacArthur Fellow in 1992 for his work on nurturing minority student achievement in college mathematics and 2006 Scientist of the Year by the Harvard Foundation of Harvard University for his outstanding contributions to mathematics. In all of his work, Treisman advocates for equity and excellence in education for all children.



Mark C. Hoglebe is an Institutional Researcher in the Department of Education, Washington University in St. Louis. He compiles data and conducts research about K-12 attainment and other education indicators for the Center for the Study of Regional Competitiveness in Science and Technology. He received his Ph.D. in educational psychology from the University of Georgia and has taught courses in applied statistics, research methods, tests and measurement, and GIS for education researchers. His interests include research and evaluation methodologies in applied settings, education in mathematics, science, and technology fields, and using GIS to give geospatial perspective to social science data.



William F. Tate is the Edward Mallinckrodt Distinguished University Professor in Arts & Sciences and the Director of the Center for the Study of Regional Competitiveness in Science and Technology at Washington University in St. Louis. His research interests include the social determinants of science, mathematics, engineering, and technology attainment. In addition, he is interested in the application of geospatial and epidemiological models in investigations of questions related to social disparities (e.g., education, health, and human development).



Christopher C. Jett received his doctorate in Teaching and Learning with a concentration in Mathematics Education from Georgia State University in Atlanta, GA and is now an Assistant Professor in the Department of Mathematics at the University of West Georgia in Carrollton, GA. He employs a culturally responsive praxis to teaching mathematics content courses to prospective mathematics teachers. His research interests include employing a critical race philosophical and theoretical framework to mathematics education research and investigating the experiences of successful African American male students in undergraduate mathematics.



Erika C. Bullock is a doctoral candidate in mathematics education in the Department of Middle-Secondary Education and Instructional Technology in the College of Education at Georgia State University. Her research interests include exploring teacher professionalism, urban mathematics education, and mathematics education policy from a critical postmodern theoretical (and methodological) perspective. She is a Southern Regional Education Board Dissertation Fellow, graduate student chair of AERA's Division G – Social Context of Education, and the assistant to the editor-in-chief of the *Journal of Urban Mathematics Education*.

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Alfinio Flores is the Hollowell Professor of Mathematics Education at the University of Delaware. He teaches mathematics and mathematics methods courses to prospective secondary teachers. His interests are the use of computers, graphing calculators and concrete materials to develop understanding of mathematical concepts; professional development of teachers of mathematics; and equity in mathematics teaching and learning. He has published over 120 articles and book chapters and presented at national and international conferences. He has conducted activities for students in schools ranging from Kindergarten to 12th grade, and conducted professional development sessions for teachers of mathematics in elementary and secondary schools and for instructors of mathematics in universities in 32 states in two countries.



Kelly Kimpton is a Senior Mathematics Education major at the University of Delaware. She is a participant of the university's Mathematics Club, a tutor at the Mathematics Tutorial Lab, and a member of the Club Tennis Team. Kelly undertook an undergraduate research position in Spring 2012 to explore in depth the gender difference in today's mathematics classroom and its effects on young girl mathematicians. She has received the Carl J. and Eleanor Reese Scholarship for Mathematical Excellence and the Secondary Education Award for Educational Promise.



Robert Q. Berry, III, Ph.D. is an Associate Professor in the Curry School of Education with an appointment in Curriculum Instruction and Special Education at the University of Virginia. A former mathematics teacher, he teaches mathematics methods courses in the teacher education program and directs graduate level mathematics education seminars. Berry has extensive experience in classroom observation and has collaborated with other researchers to develop an observation instrument, *Mathematics Scan* (M-Scan), which measures mathematics teaching practices. Much of Dr. Berry's research has focused on equity issues in mathematics education with a particular focus on Black boys. Berry serves on the Board of Directors for the National Council of Teachers of Mathematics (NCTM 2011-2014). He was recognized as the 2011 Mathematics Educator of the Year by the Virginia Council of Teachers of Mathematics (VCTM), and is the recipient of the University of Virginia's 2011 All University Teaching Award.



Kateri Thunder is an Assistant Professor in the Middle, Secondary, and Mathematics Education Department at James Madison University, where she teaches courses on inclusive early childhood and elementary mathematics methods. In addition, she teaches mathematics specialist courses throughout Virginia. She received her Ph.D. in Mathematics Education from the University of Virginia. Dr. Thunder's research focuses on three areas of mathematics education: the experiences of African American children in mathematics education, early childhood mathematics instruction, and writing-to-learn strategies in mathematics instruction.



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Julia Kaufman is a Research Associate at University of Pittsburgh and a RAND Adjunct. Her research focuses on how instructional policies and programs can support high-quality teaching and learning. She is also interested in the development of measures that can yield the best evidence about the quality of teachers' instruction. Her expertise includes applying rigorous mixed methods designs to understand the factors influencing teacher instruction and student performance in school. She recently completed an IES-funded Carnegie Mellon and RAND Traineeship (*CMART*) in interdisciplinary education research.



Rita Karam is a Policy Researcher in RAND's Education unit. Dr. Karam has extensive experience in investigating educational reforms and programs including math, science and literacy programs. Her research focuses on measuring program implementation and examining implementation effects on school processes and student learning. She holds a Ph.D. in Educational Policy from the University of California, Riverside.



John F. Pane is a Senior Scientist in RAND's Education unit and co-director of the *CMART* IES postdoctoral training program in education research, jointly operated with Carnegie Mellon University. Dr. Pane is an experienced researcher of the implementation and effectiveness of educational innovations, with a focus on math, science, and education technology initiatives. His expertise includes the application of experimental and rigorous quasi-experimental methods in education settings and assessing the impact of new technologies on individuals and organizations. He holds a Ph.D. in Computer Science from Carnegie Mellon.



Brian W. Junker is Professor of Statistics and Associate Dean for Academic Affairs in the Dietrich College at Carnegie Mellon University. His research interests include nonparametric and Bayesian item response theory, hierarchical models for multiple ratings of rich assessment items, psychometric cognitive diagnosis models, methodology for secondary analysis of national education surveys, analysis of large randomized field trials in education, rating protocols for teacher quality, educational data mining, social network analysis, and mixed membership models. He is co-chair of the Design and Analysis Committee for the National Assessment of Educational Progress, and he directs the *CMART* IES postdoctoral training program in education research.

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Youngyoul Oh is an Associate Professor of Mathematics Education at Seoul National University of Education, Seoul, Korea and teaches courses of Mathematics Methods and Problem Solving as well as Elementary Geometry. He received his doctorate in mathematics education from the University of Texas at Austin. He is currently a Visiting Scholar at Teachers College, Columbia University. His research areas include teacher education, student teaching, elementary teachers' pedagogical knowledge, mathematical manipulatives, mathematical modeling, and comparative education.



Angela C. Turrou received her Ph.D. in Education from the UCLA Graduate School of Education and Information Studies, where she is currently conducting post-doctoral research. Angela's program of scholarship is situated at the intersection of teacher education and classroom practice in elementary mathematics. Her work targets the complexity of the interaction among teachers, students, and content as individuals participate together to learn mathematics. In addition to her research activities, Angela teaches in the UCLA Teacher Education Program and facilitates professional development for schoolteachers across Southern California.



Cecilia H. Fernández is a doctoral student in Social Research Methodology at the UCLA Graduate School of Education and Information Studies. She received her M.A. in Social Research Methodology from UCLA, and her B.S. in Mathematics from the Massachusetts Institute of Technology. Cecilia has experience with K-12 mathematics education as a high school mathematics teacher at the Fontana Unified School District, and also through developing an outreach program geared towards middle school children from "under-performing" schools that focused on Science, Technology, Engineering and Mathematics at MIT. Her research interests include the relationship between classroom norms, student mathematical identity, and student participation in the classroom.



Clarence L. Terry, Sr., received an A.B. and M.A.T. (both in Mathematics) from Occidental College and a Ph.D. in Urban Schooling/Mathematics Education from UCLA. He is an Assistant Professor of Education at Occidental College and the Associate Director of the UCLA Black Male Institute in Los Angeles, CA. A former mathematics teacher and coach, his research focuses on the creation of critical race "counterspaces" as an alternative environment for the mathematics education of high school-aged Black males. In these spaces, he explores the impact of critical literacies on the formation of Black males' racial and mathematics identities, as well as their social agency. Dr. Terry also works with K-12 educators developing socially-just and anti-racist pedagogies in school communities across urban Los Angeles and Southern California.



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Ebony O. McGee is an Assistant Professor of Diversity and Urban Schooling at Vanderbilt University's Peabody College and a member of Scientific Careers Research and Development Group at Northwestern University. As a former electrical engineer, she is concerned with science, technology, engineering, and mathematics (STEM) learning and participation among marginalized students of color. Her research focuses on the role of racialized biases in educational and career attainment, resiliency, mathematics identity and identity development in high-achieving marginalized students of color in STEM fields.



Viveka O. Borum is an Assistant Professor in the Mathematics Department at Spelman College. She received her Ph.D. in Mathematics Education from Teachers College, Columbia University. Her research interests include gender and racial issues in mathematics, mentorship, examining the benefits of summer programs in mathematics, and integrating higher-level mathematics in the K-12 curriculum.



Christa Jackson is an Assistant Professor in Mathematics Education at the University of Kentucky. She received her doctorate from the University of Missouri – Columbia in Curriculum and Instruction with an emphasis in Mathematics Education. She is the Co-Director of the P20 STEM Innovation Lab and teaches undergraduate and graduate courses in mathematics education. Her research conceptualizes teachers' knowledge of equity, specifically in teaching mathematics to African American students. Her work focuses on effective mathematics instruction at the elementary and middle levels, strategies to help students who struggle in mathematics, and prospective mathematics teachers' conceptions of equity.



Hoyun Cho is from Seoul, Korea. He has expertise in mathematics education and was awarded a Ph.D. in Mathematics Education from Teachers College, Columbia University in 2012. He is currently an Assistant Professor at Capital University in Columbus, OH, where he teaches elementary and secondary mathematics pedagogy courses and mathematics content courses. His research interests involve student learning with cartoon activities, motivation and interest in mathematics, mathematics content knowledge for pre- and in-service teachers, teacher education, and international comparative studies.