CRESSTCON'18

MONDAY, OCT. 1, 2018

7:00 **Networking Breakfast**
Plateia Restaurant

8:30 **Introduction to CRESSTCON'18**
Li Cai, Director, Professor of Education and Psychology, UCLA CRESST and GSE&IS
Centennial Hall CD

8:35 **Keynote Speaker: Marcelo Suárez-Orozco, Wasserman Dean, UCLA GSE&IS**
Children of Immigration
In the 21st century, immigration is the human face of globalization: the sounds, colors, and scents of a miniaturized, interconnected, and fragile world. Mass migration is generating a deep demographic transformation—giving rise to the children of immigrants as the fastest growing sector of the child and youth population in a number of high and middle-income countries across the world. If the 20th century was the century of mass migrations, the 21st century will be the century of the children of immigrants — their schooling, their identities, their job prospects, their citizenship and well-being.
Centennial Hall CD

9:35 **Break**

9:45 **Plenary Session: Accelerating Excellence and Equity: Challenges and Solutions**
In this plenary session, panelists will discuss how to prepare kids for success in school and in life by fostering and accelerating educational excellence and ensuring equal access to quality educational opportunities.

Eva Baker, CRESST Founding Director and Distinguished Professor Emerita, UCLA and GSE&IS
Kim Gomez, Professor, UCLA GSE&IS
Mary Hewitt, Executive Director, Los Angeles County Alliance for Boys & Girls Clubs
David Lowenstein, Senior Director of the CPB-PBS Ready to Learn Initiative, session moderator
Centennial Hall CD

11:00 **Keynote Speaker: Bror Saxberg, Vice President, Learning Science at Chan Zuckerberg Initiative (CZI)**
Learning Engineering: The Art of Applying Evidence-Based Learning at Scale
Too often, learning environments at scale are designed around how we wish learning worked. Unfortunately, learning, like human biology, is an inconveniently designed system. It requires real effort to help designers become able to apply what's known about learning and evidence-gathering about learning at scale — and we need this to help learners at all ages deal more reliably with ever-changing work contexts.
Centennial Hall CD

12:00 **Lunch**
Plateia Restaurant

LEARNING TOGETHER

1:30   Concurrent Breakout Sessions

Social Emotional Learning as the New Frontier: Frameworks, Measurement, and Interventions
In this session, our presenters will share results from the latest research on SEL including work from interventions that also serve as opportunities for formative assessment (Berlinski), data from multiple reporters of SEL (Buckley), descriptives highlighting racial/ethnic differences in feelings of belonging in school (Graham), and a framework for game-based assessment of SEL for young children (Schenke).
Jessica Berlinski, Ripple Effects • Katie Buckley, Transforming Education
Sandra Graham, UCLA GSE&IS • Katerina Schenke, UCLA CRESST
Pinnacle Room

Identifying English Learners: The ELPA21 Dynamic Screener
This session will describe efforts to develop an efficient and accurate test used for the initial identification of students who are potential English learners in eight states of the English Language Proficiency Assessment for the 21st Century (ELPA21). This is a high-stakes test — determining students' eligibility for English language development services — and ELPA21's online screener has broken the mold of legacy screeners in states.
Mark Hansen, UCLA CRESST • EunHee Keum, UCLA CRESST • Michelle McCoy, ELPA21
Cat Still, ELPA21 • Kara Schlosser, ELPA21, discussant
Odyssey Room

Technology in Instruction and Assessment
This breakout session will focus on the analysis, interpretation, and modeling of multimodal educational assessment data and its use to inform instruction. Technology is the common denominator that allows for the mining and fusion of data from different sources, providing inferences from student behavior. The reliability of software algorithms and models can complement human common sense and bigger picture assessment ratings. Our session speakers will share on these topics, describing their work, insights, challenges, and the road ahead.
Adnan Darwiche, UCLA CS • Jennie Grammer, UCLA GSE&IS • Markus Iseli, UCLA CRESST
Rajesh Jha, SimInsights • Terry Vendlinski, TVATE, discussant
Pathways Room

Telemetry Data and Applications (Structured Poster Session)
This structured poster session will present current R&D on the use of telemetry (or process data) in games and simulations for learning and measurement purposes. The session will open with brief remarks by the organizer (Chung), followed by the opportunity for the audience to engage in in-depth discussions with presenters. A range of topics is covered — the design of telemetry systems, the processing and analysis of telemetry data, using telemetry data in adaptive systems, and using telemetry data for measurement purposes. The set of work illustrates innovative applications spanning different ages, content, disciplines, and methodological approaches.
Greg Chung, UCLA CRESST • Teanna Feng, UCLA CRESST • Jina Kang, Utah State
Alan Koenig, UCLA CRESST • Anna Lee, UCLA CRESST • Thomas Maierhofer, UCLA CRESST
Betsy McCarthy, WestEd • Elizabeth Owen, Age of Learning Inc. • Charles Parks, UCLA CRESST
Elizabeth Redman, UCLA CRESST • Manie Tadayon, UCLA/Electrical and Computer Engineering
Centennial Hall AB

3:00   Concurrent Breakout Sessions

Understanding Simulation and Gameplay Data
This session will highlight research that pushes forward on the frontiers of learning and assessment by using technology to capture and analyze data in new and unobtrusive ways. Participants will discuss ways to capitalize and build on the possibilities of using telemetry to make current assessment, evaluation, and data-driven decisions more efficient, data rich, and adaptive. With innovative games and simulations that support future learning, participants will demonstrate how this work is making significant contributions to the national research and development agenda.
Girlie Delacruz, LRNG • David Feldon, Utah State • Jenny Kao, UCLA CRESST
John Lee, UCLA CRESST
Pathways Room

STEM & Equity
This session will provide multiple perspectives on connections between equity and STEM. In particular, presenters will explore how they conceptualize the notion of equity (specifically in the area of STEM/STEM-based initiatives), and how it guides them in their work.
Roxana Hadad, Northeastern Illinois University • Imelda Nava, Center X/TEP/UCLA
Christine Ong, UCLA CRESST
Odyssey Room

Innovations in Statistical Methodology and Psychometrics
In this session, the presenters will cover recent developments in latent variable modeling, multilevel modeling, and computational approaches to the analysis of data from educational assessment and evaluation studies. Topics include multidimensional item response theory, Bayesian hierarchical models, and deep learning.
Li Cai, UCLA CRESST • Kilchan Choi, UCLA CRESST • MJ Jeon, UCLA GSE&IS • Ying Nian Wu, UCLA
Pinnacle Room

4:30   Innovation Showcase
The Innovation Showcase will feature designers, researchers, and practitioners who will demo their latest tech and research and present scientific posters. The universities and organizations showcasing their work include SimInsights, SonoSim, University of Helsinki, Finland, Office of Naval Research, Naval Education and Training Command, Khan Academy, Virginia Tech, Educational Testing Service, UC Davis, Twin Cities PBS, UC Irvine, Age of Learning Inc., UCLA, ACT & Smart Sparrow, ACTNext by ACT, ClassCalc, EDC, SRI, USC, PBS KIDS, and UCLA CRESST.
Centennial Hall AB

TUESDAY, OCT. 2, 2018

7:00 **Networking Breakfast**
Plateia Restaurant

8:30 **Introduction: Applying What We Know**
Li Cai, Director, Professor of Education and Psychology, UCLA CRESST and GSE&IS
Centennial Hall CD

8:40 **Plenary Session: Current Practices in Evaluation and Assessment in China**
In this plenary session, panelists from Beijing Normal University will discuss contemporary issues related to technology, assessment, and evaluation in China.

Li Yanfang will present The Status of Chinese Primary School Music Teachers and Their Influences on Student's Music Learning, which reports on a large-scale assessment of elementary school music instructors and the effects of teacher demographics, attitudes, and experience on student music interests and achievement.

Luo Liang will present Report on the Quality of Compulsory Education in China—Key Findings from The National Assessment of Educational Quality (2015-2017), which focuses on Grade 4 and Grade 8 students, evaluating student achievement in Chinese, mathematics, science, art, moral education, and physical health.

Xin Tao will present Accurate Monitoring of Education Quality: Use of Technology to Support Education Assessment in China, which provides insight into the various testing techniques used to support accurate monitoring of the quality of China's education such as voice recognition technology, human-computer interaction technology, and music electronization.
Centennial Hall CD

9:50 **Break**

10:00 **Concurrent Breakout Sessions**

Improving Statistical Methods in Social Science Research
In this breakout session, graduate student researchers in the Social Research Methodology program at UCLA will present their current work that contributes to advances in psychometrics and quantitative research. Practical guidance to the projects in CRESST, such as the Smarter Balanced Assessment Consortium and the English Language Proficiency Assessment for the 21st Century (ELPA21), and theoretical development in general will be discussed.
Seungwon Chung, UCLA GSE&IS • Sijia Huang, UCLA GSE&IS • Meredith Langi, UCLA GSE&IS
Yon Soo Suh, UCLA GSE&IS
Pinnacle Room

Innovations in Early Childhood Instruction and Assessment
This session will showcase research focused on technology in the instruction and assessment of young children. From digital games to innovative in-school curriculum, our presenters will share their expertise and research in this exciting and evolving arena.
Naomi Hupert, EDC • Elizabeth Redman, UCLA CRESST • Jeremy Roberts, PBS KIDS
Rosa Serratore, Santa Monica-Malibu Unified School District • Phil Vahey, SRI, discussant
Odyssey Room

Assessment Design and Practice
This session focuses on assessment design and practice as the critical linchpins for understanding and improving the quality of education and training.
Sandy Chang, UCLA CRESST • Rebecca Kantar, Imbellus • Harry O'Neil, USC
Jessica Andrews Todd, ETS • Eva Baker, UCLA CRESST, discussant
Pathways Room

Evaluation for Excellence and Equity
Evaluation is the vital key for increasing and improving learning and effectiveness in evidence-based practice. This session will cover a variety of evaluation approaches in a range of contexts, including K-12, higher education, and teacher preparation.
Mark Levis-Fitzgerald, UCLA Center for Educational Assessment • Julia Phelan, UCLA CRESST
Karen Hunter Quartz, Center X • Jia Wang, UCLA CRESST

Centennial Hall A

11:25 **Break**

11:40 **Plenary Session: Equity and Excellence in International Assessment**
In this plenary session, panelists will discuss assessment from an international perspective, particularly examining issues of equity in assessment. Panelists will join us from Finland, China, Chile, and Korea.
Jimin Cho, Korea Institute for Curriculum and Evaluation
Heidi Harju-Luukkainen, University of Helsinki
Leonor Varas, University of Chile
Xin Tao, Beijing Normal University
Li Cai, UCLA CRESST, session moderator
Centennial Hall CD

12:55 **Conference Closing Remarks**
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1:00 **Lunch**
Plateia Restaurant

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2:30 **Robert L. Linn Memorial Lecture: Dr. Xin Tao of Beijing Normal University**
This year's awardee, Professor Xin Tao, is one of the foremost educational assessment and policy researchers in China, having played a major role in designing the National Assessment of Education Quality — colloquially referred to as NAEP's Chinese cousin in the assessment research community — and been in the leadership position of the Collaborative Innovation Center of Assessment toward Basic Education Quality, located at Beijing Normal University.

In this lecture, Professor Xin will discuss the development of modern educational assessment in China, the implementation of large-scale assessment studies in support of educational reform, and policy research to bridge the equity, access, and achievement gap as the country's economy further advances into the 21st century.
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4:15 **Robert L. Linn Memorial Lecture Closing Remarks**
Li Cai, Director, Professor of Education and Psychology, UCLA CRESST and GSE&IS
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