

# Virtual IOMW 2020 :: Program at A Glance

Pacific Time	Wednesday, Feb 3, 2021	Thursday Feb 4, 2021	Friday Feb 5, 2021	Saturday Feb 6, 2021	Monday, Feb 8, 2021			
9:00		Opening (9am)	Podium 2 (9-10am)	Keynote 2 Neal Kingston (9-10am)	Workshop (9-noon) BEAR Assessment System			
9:15		Keynote 1 Luca Mari (9:15-10:15)	2A			2B		
9:30			Break			Break		
9:45			Break			Spotlight (10:15-45)		
10:00	Workshop (10-noon) Mixture Model in Mplus	Podium 1 (10:30-11:30)	Spotlight 2 (10:15-10:45)	4a		4b		
10:15		Break		Break				
10:30		1A	1B	1C		Podium 3 (11-noon)		
10:45		Break		1A		1B	1C	
11:00		Break		Break		Break		
11:15		Spotlight 1 (11:45-12:15)		Break		Break		
11:30		Break		Break		Break		
11:45		Break		Break		Break		
noon	Break		Break		Break			
12:15	Poster Session (12:30-1:30)		Spotlight 3 (12:15-12:45)	Roundtable 2 (12:15-1:15)				
12:30	A		Break		2A	2B		
12:45	B		Break		Break			
1:00	C		:: Happy Hour :: (1-2pm)		Break			
1:15					Closing (1:30-2pm)			
1:30								
1:45								
2:00								

# THURSDAY, FEBRUARY 4, 2021

To join a Zoom session, you need to sign into your Zoom account (you can create one for free [here](#)). For technical issues, contact the Zoom host listed. Want to join via phone? Please find a call-in number [here](#). Abstracts and presentation materials can be found at <https://www.iomw.org/>

Thursday, 9:00 am (PST)

## Opening Session

<https://berkeley.zoom.us/j/92430529377>

**Facilitator: Veronica Santelices**

Zoom host: [yukie.toyama@berkeley.edu](mailto:yukie.toyama@berkeley.edu); 415-533-4508

Thursday, 9:15 am (PST)

## Keynote 1: Luca Mari

<https://berkeley.zoom.us/j/92430529377>

**Facilitator: Mark Wilson**

Zoom host: [yukie.toyama@berkeley.edu](mailto:yukie.toyama@berkeley.edu); 415-533-4508

**Title: Measurement, computation, simulation, etc: is there still a difference in the "big data" age?**

**Abstract:** *Is there a difference between a measurement and a computation? In a context in which more and more processes are digitized and the presence of models is acknowledged as unavoidable (so that the traditional distinction between direct and indirect methods of measurement seems to be lost, under the hypothesis that only indirect measurement is possible), does a difference remain between measurement and computation? And what does the answer imply for the interpretation of the authoritative role of measurement as an epistemic foundation for science? The talk proposes a preliminary analysis, deploying a critical realism approach, to address this issue.*

Break, 10:15 am (PST)

Thursday, 10:30 am (PST)

## Podium Presentations 1A

**Theme: Applications of explanatory Rasch and facet models**

<https://berkeley.zoom.us/j/92430529377>

**Chair: Perman Gochyev**

Zoom host: [yukie.toyama@berkeley.edu](mailto:yukie.toyama@berkeley.edu); 415-533-4508

### PP1A.1

**Title: Invariant measurement of affective variables in cross-cultural research: The case of mathematics self-efficacy**

**Author(s):** Cigdem Toptas; George Engelhard

**Abstract:** PP1A.1

### PP1A.2

**Title: Evaluating virtual standard setting workshops through a Many-facet Rasch measurement (MFRM) framework**

**Author(s):** Charalambos (Harry) Kollias

**Abstract:** PP1A.2

### PP1A.3

**Title: Use of Polytomous Item Explanatory IRT Models to Develop and Validate Integrative Inferential Reasoning (IIR) Comic Assessment**

**Author(s):** Jinho Kim; Alexander M Blum

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Thursday, 10:30 am (PST)

**Podium Presentations 1B**

**Theme: Rasch measurement applications in wider contexts**

<https://berkeley.zoom.us/j/91220883598>

**Chair: Jeanette Melin**

Zoom host: [aubrey\\_condor@berkeley.edu](mailto:aubrey_condor@berkeley.edu); 941-315-9024

**PP1B.1**

Title: **The Oral-Health Impact Profile revisited using the Rasch model: Data from a multi-center osteoarthritis registry**

Author(s): Maisa Omara; Thomas Salzberger; Katrin Bekes; Maren Boecker; Gunter Steiner; Valerie Duxneuner-Nell; Valentin Ritschl; Erika Mosor; Margreet Kloppenburg; Judith Sautner; Tanja Stamm  
Abstract: PP1B.1

**PP1B.2**

Title: **Introducing the Measurement STEM Caliper Development Initiative in the STEM Learning Ecosystems: Design Issues**

Author(s): Janice Morrison; William P. Fisher  
Abstract: PP1B.2

**PP1B.3**

Title: **Introducing the Measure STEM Caliper Development Initiative: Preliminary Results from the Caliper Pilot Study**

Author(s): William P. Fisher; Janice Morrison  
Abstract: PP1B.3

Thursday, 10:30 am (PST)

**Podium Presentations 1C**

**Theme: Measurement applications at the college-level**

<https://berkeley.zoom.us/j/94704790086>

**Chair: Linda Morell**

Zoom host: [shruti\\_bathia@berkeley.edu](mailto:shruti_bathia@berkeley.edu); 713-899-3715

**PP1C.1**

Title: **Constructs Behind the Information Level of High School Students**

Author(s): Maria Veronica Santelices; Catherine Horn; Magdalena Zarhi; Ximena Catalán; Juan Acevedo  
Abstract: PP1C.1

**PP1C.2**

Title: **Measuring Productive Vocabulary using IRT**

Author(s): Jonathan Downey  
Abstract: PP1C.2

**PP1C.3**

Title: **A Reciprocal Relation between Program Evaluation and Rasch Measurement Theory: Evaluating a University's Biology-Student Mentorship Program**

Author(s): Daniel Katz; Anthony Clairmont; Mike Wilton  
Abstract: PP1C.3

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Break, 11:30 am (PST)

Thursday, 11:45 am (PST)

**Spotlight Presentation 1**

<https://berkeley.zoom.us/j/91297010344>

**Facilitator: Karen Draney**

Zoom host: [jsussman@berkeley.edu](mailto:jsussman@berkeley.edu); 415-531-7854

**Title: Integrating ordinal, multitask deep learning with faceted item response theory: debiased, explainable, interval measurement of hate speech**

**Author(s):** Chris Kennedy; Geoff Bacon; Alexander Sahn; Nora Broegee; Claudia von Vacano

Abstract: SP01

Break, 12:15 pm (PST)

Thursday, 12:30 pm-1:30pm (PST)

**Posters A: Theory & Models**

<https://berkeley.zoom.us/j/94853069761>

Zoom host: [perman@berkeley.edu](mailto:perman@berkeley.edu); 310-848-8991

Abstracts available at:

<https://www.iomw.org/poster-session>

**PSA.1. Rasch modelling of learning patterns: getting more from repeated measure**  
Federiakin, Denis

**PSA.2. Evaluation and redesign of multistage adaptive testing in an English language test**  
Bishop, Kyoungwon, Seo, Daeryong, Gocer-Sahin, Sakine

**PSA.3. On the Axiom of Local Independence**  
Ernesto San Martin

**PSA.4. A Hierarchy of Construct Theories: Their Focus and Manifestations**  
Melin Jeanette, Fisher William, Pendrill Leslie

**PSA.5. A Simulation Study: Comparing FDR Correction Methods in Using Rasch Trees Modeling for DIF Detection**  
Niu, Chunling; Toland, Michael; Duber, David; Li, Nan

Thursday, 12:30 pm-1:30pm (PST)

**Posters B: Instrument Development**

<https://berkeley.zoom.us/j/91308331934>

Zoom host: [shruti\\_bathia@berkeley.edu](mailto:shruti_bathia@berkeley.edu); 713-899-3715

Abstracts available at:

<https://www.iomw.org/poster-session>

**PSB.2. Measuring Teacher Competency in Error Analysis: Instrument Development**  
McNeil, Rebecca

**PSB.3. Development of a Measure for Self-Directed Reasoning from Evidence**  
Bradford, Allison

**PSB.4. Reliability and Validity Evidence of the Humor as an Acceptingly Helpful Attitude Measure (HAHA) Using Item Response Theory**  
Dejanipont, Bunyong; Suksiri, Weeraphat; Wilson, Mark

**PSB.5. Analysis of the Intensive Parenting Questionnaire Using Rasch Modeling**  
Donovan, Courtney, O'Brien, Shani, Forbes, Lisa, & Lamar, Margaret

**PSB.6. Multidimensional Rasch Analysis for Validating a Measure of Mathematical Proficiency through Digital Technology**  
Junpeng, Putcharee; Marwiang, Metta; Chinjunthuk, Samruan; Suwannatrai, Prapawadee; Luangangoon, Nuchwana; Chanayota, Kanokporn; Krotha, Jenrop; Tang, Keow Ngang; Wilson, Mark

Thursday, 12:30 pm-1:30pm (PST)

**Posters C: Analysis & Modeling**

<https://berkeley.zoom.us/j/95968339453>

Zoom host: [yukie.toyama@berkeley.edu](mailto:yukie.toyama@berkeley.edu); 415-533-4508

Abstracts available at:

<https://www.iomw.org/poster-session>

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Thursday, 12:30 pm-1:30pm (PST)

**Posters C: Analysis & Modeling**

<https://berkeley.zoom.us/j/95968339453>

Zoom host: [yukie.toyama@berkeley.edu](mailto:yukie.toyama@berkeley.edu); 415-533-4508

Abstracts available at:

<https://www.iomw.org/poster-session>

**PSC.1. The Desired Results Developmental Profile (DRDP) Large Scale Assessment: A Case Study**

Sussman, Joshua et al. at the BEAR Center

**PSC.2. A Systematic Review of Teachers' Attributions Toward Students with Disabilities: Integrating the Social and Medical Model of Disability with Attribution Theory**

Aramburo, Corrine, Renee Starowicz

**PSC.3. Exploring the Psychometric Properties of the Self-Efficacy for High School Students**

Ge, Yuan; Wind, Stefanie

**PSC.5. An Investigation of the Combined Effects of Parent Involvement, Language Use and SES in Predicting HS Graduation for ELL Students**

Shannon, Nathaniel; Shi, Qingzhou; Ntoh Yuh, Honorine

**PSC.6. Network Analysis of Didactic Examination Outcomes: Interrelationships of Accuracy, Response Time, Pace, and Fluency (Speed-Accuracy Tradeoff)**

Thompson, James

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Friday, 9:00 am (PST)

**Podium Presentations 2A**

**Theme: Linking, Equating, and measurement across multiple timepoints**

<https://berkeley.zoom.us/j/96439312024>

**Chair: Stefanie Wind**

Zoom host: [shruti\\_bathia@berkeley.edu](mailto:shruti_bathia@berkeley.edu); 713-899-3715

**PP2A.1**

Title: **Evaluating Longitudinal Anchoring through Simulation**

Author(s): Tara Valladares; Karen Schmidt

Abstract: PP2A.1

**PP2A.2**

Title: **Linking Oral and Written assessments using Rasch model with Dimensional Alignment: A Study in India.**

Author(s): Prashanth Vasudevan; Sowmya Velayudham; Pradeep Sharma; Perman Gochyyev

Abstract: PP2A.2

**PP2A.3**

Title: **Extensions of the Rasch model and partial credit model for repeated measures in an invariant frame of reference**

Author(s): Sarah Marquis; Antoine Regnault

Friday, 9:00 am (PST)

**Podium Presentations 2B**

**Theme: New approaches to constructing and validating measures**

<https://berkeley.zoom.us/j/97630456773>

**Chair: Jerred Jolin**

Zoom host: [davidstevens@berkeley.edu](mailto:davidstevens@berkeley.edu)

**PP2B.1**

Title: **The Response Process Evaluation Method**

Author(s): Melissa Gordon Wolf

Abstract: PP2B.1

**PP2B.2**

Title: **What exactly is the Role of Man in Social Measurement?**

Author(s): Thomas Salzberger

Abstract: PP2B.2

**PP2B.3**

Title: **A construct specification equation (CSE) with qualitative explanatory variables: A worked example**

Author(s): Jeanette Melin; Leslie Pendrill; William P. Fisher

Abstract: PP2B.3

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Break, 10:00 am (PST)

Friday, 10:15 am (PST)

**Spotlight Presentation 2**

<https://berkeley.zoom.us/j/98578002771>

**Facilitator: Veronica Santelices**

Zoom host: [perman@berkeley.edu](mailto:perman@berkeley.edu); 310-848-8991

**Title: On the Nature of Measurement in Educational Measurement, 5th Edition**

Author(s): Derek Briggs; Andrew Maul; Josh McGrane

Abstract: SP02

Break, 10:45 am (PST)

Friday, 11:00 am (PST)

**Roundtable session 1A**

**Theme: Methodological developments and innovative methods**

<https://berkeley.zoom.us/j/92960171032>

**Chair: Mark Wilson**

Zoom host: [aubrey\\_condor@berkeley.edu](mailto:aubrey_condor@berkeley.edu); 941-315-9024

**RS1A.1**

**Title: Using an Iterative Parametric Bootstrap Method to Evaluate Rater Fit**

Author(s): Wenjing Guo; Stefanie Wind

Abstract: RS1A.1

**RS1A.2**

**Title: Predictive validity under partial observability**

Author(s): Eduardo Alarcón-Bustamante; Ernesto San Martín; Jorge González

Abstract: RS1A.2

**RS1A.3**

**Title: Identification Problems in Model Construction: Its Epistemological Scope**

Author(s): Ernesto San Martin

Abstract: RS1A.3

Friday, 11:00 am (PST)

**Roundtable session 1B**

**Theme: Beyond measurement of achievement: applications**

<https://berkeley.zoom.us/j/94260943077>

**Chair: Joshua Sussman**

Zoom host: [perman@berkeley.edu](mailto:perman@berkeley.edu); 310-848-8991

**RS1B.1**

**Title: Sustainability Impact Measurement and Management A Basis for Green Climate Impact Bonds for the Clothing, Textile, and Fashion Industry**

Author(s): Tal Madhala

William P. Fisher

Abstract: RS1B.1

**RS1B.2**

**Title: Measuring California Superintendents' Beliefs About School Climate Assessment for Continuous Improvement : A Multi-dimensionality and Response Patterns Study**

Author(s): Anji Buckner; Yidan Zhang; Brent Duckor; Mark Wilson

Abstract: RS1B.2

**RS2C.1**

**Title: Using Mixture Modelling to Make Meaning of Differential Item Functioning (DIF)**

Author(s): Daniel Katz

Abstract: RS1B.3

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Friday, 11:00 am (PST)

**Roundtable session 1C**

**Theme: Relevance and quality of response and evaluation data**

<https://berkeley.zoom.us/j/95338181501>

**Chair: David Torres Iribarra**

Zoom host: [julianlevine@berkeley.edu](mailto:julianlevine@berkeley.edu); 510-859-3294

**RS1C.1**

Title: **Measuring Covariational Reasoning: the interaction struggle of getting correct answers verses mathematical reasoning**

Author(s): Courtney Donovan; Heather Johnson; Xin Wang

Abstract: RS1C.1

**RS1C.2**

Title: **Coherence in Measuring Student Evaluation of Teaching: A New Paradigm**

Author(s): Fan Huang; Pey Tee Oon; William P. Fisher

Abstract: RS1C.2

**RS1C.3**

Title: **Prevalence of Misreporting Demographic Data on a Low-Stakes Test**

Author(s): Linda Morell; Weeraphat Suksiri; Mark Wilson

Abstract: RS1C.3

Break, 12:00 pm (PST)

Friday, 12:15 pm (PST)

**Spotlight Presentation 3**

<https://berkeley.zoom.us/j/96564709841>

**Facilitator: Derek Briggs**

Zoom host: [yukie.toyama@berkeley.edu](mailto:yukie.toyama@berkeley.edu); 415-533-4508

Title: **Speed accuracy tradeoff? Not so fast: Marginal changes in speed have inconsistent relationships with accuracy in real-world settings**

Author(s): Benjamin Domingue; Klint Kanopka; Ben Stenhaus; Megan Kuhfeld; Steve Wise; Jim Soland

Abstract: SP03

HAPPY HOUR

1:00 pm – 2:00 pm (PST)

<https://berkeley.zoom.us/j/92224552373>

**Facilitators:**

**Andrew Galpern**

**Alexander Blum**

Zoom host: [andrewgalpern@berkeley.edu](mailto:andrewgalpern@berkeley.edu); 510-516-2639



## SATURDAY, FEBRUARY 6, 2021

To join a Zoom session, you need to sign into your Zoom account (you can create one for free [here](#)). For technical issues, contact the Zoom host listed. Want to join via phone? Please find a call-in number [here](#). Abstracts and presentation materials can be found at <https://www.iomw.org/>

Saturday, 9:00 am (PST)

**Keynote 2: Neal Kingston**

<https://berkeley.zoom.us/j/93808018874>

**Facilitator: Mark Wilson**

Zoom host: [perman@berkeley.edu](mailto:perman@berkeley.edu); 310-848-8991

**Title: Measurement Issues Associated with Learning Map Assessments**

*Abstract: Most assessments are modeled on a unidimensional or a multi-dimensional scales with relatively few dimensions. The Dynamic Learning Maps Alternate Assessment is based on a diagnostic classification model wherein student mastery of hundreds of distinct nodes are estimated or inferred. This paradigm is grounded in a set of philosophical principles that have some communality with the extended Rasch family of models and some significant differences and is beset by numerous estimation challenges. This talk will address both, summarizing the past several years of research.*

Break, 10:00 am (PST)

Saturday, 10:15 am (PST)

**Spotlight Presentation 4A**

<https://berkeley.zoom.us/j/94797400272>

**Facilitator: Linda Morell**

Zoom host: [jsussman@berkeley.edu](mailto:jsussman@berkeley.edu); 415-531-7854

**Title: Exploring novice teachers' formative assessment practices of posing-pausing-probing moves using a teacher learning progressions approach**

**Author(s): Brent Duckor; Carrie Holmberg**  
**Abstract: SP04A**

**Spotlight Presentation 4B**

<https://berkeley.zoom.us/j/98096770838>

**Facilitator: Rich Patz**

Zoom host: [davidstevens@berkeley.edu](mailto:davidstevens@berkeley.edu)

**Title: Semiotics, Identified Models, and the Economy of Thought: A New Agenda for Measurement Research**

**Author(s): William P. Fisher**  
**Abstract: SP04B**

Break, 10:45 am (PST)

Saturday, 11:00 am (PST)

**Podium Presentations 3A**

**Theme: Teaching, communicating, and improving measurement practices**

<https://berkeley.zoom.us/j/96611007929>

**Chair: Karen Draney**

Zoom host: [yukie.toyama@berkeley.edu](mailto:yukie.toyama@berkeley.edu); 415-533-4508

**PP3A.1**

**Title: Modern measurement, methods, and statistics teaching: Engaging students in flipped active learning integrated classrooms for quantitative psychology courses**

**Author(s): Karen Schmidt**  
**Abstract: PP3A.1**

**PP3A.2**

**Title: Best Procedures for Understanding and Communicating what Growth in Student Achievement Means**

**Author(s): Matthew Schulz**  
**Abstract: PP3A.2**

## SATURDAY, FEBRUARY 6, 2021

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Saturday, 11:00 am (PST)

### Podium Presentations 3B

**Theme: Measurement applications in STEM and related fields**

<https://berkeley.zoom.us/j/92160868020>

**Chair: Veronica Santelices**

Zoom host: [aubrey\\_condor@berkeley.edu](mailto:aubrey_condor@berkeley.edu); 941-315-9024

#### PP3B.1

**Title: Keeping It on the Level: Using Learning Trajectories for Diagnostic Inferences**

Author(s): Sanford Student; Derek Briggs; Emily Toutkoushian; Jere Confrey  
Abstract: PP3B.1

#### PP3B.2

**Title: Gaining Insight into Teachers' Interpretations of Computer-Based Feedback for the Purpose of Valid Inferences**

Author(s): Linda Morell; Sara Dozier; Weeraphat Suksiri; Jonathan Osborne; Mark Wilson  
Abstract: PP3B.2

#### PP3B.3

**Title: Characterizing Visual Information Literacy with developmental cognitive models**

Author(s): Angela Locoro; William P. Fisher; Luca Mari  
Abstract: PP3B.3

Break, 12:00 pm (PST)

Saturday, 12:15 pm (PST)

### Roundtable session 2A

**Theme: Applications of IRT in measurement of reading and memory**

<https://berkeley.zoom.us/j/94694183615>

**Chair: Yukie Toyama**

Zoom host: [julianlevine@berkeley.edu](mailto:julianlevine@berkeley.edu); 510-859-3294

#### RS2A.1

**Title: Toward a more nuanced measurement of word spelling knowledge based on item response theory**

Author(s): Bowen Wang  
Abstract: RS2A.1

#### RS2A.2

**Title: Constructing an evolving story of memory measurement: blocks, numbers, words**

Author(s): Jeanette Melin; Leslie Pendrill; Stefan Cano; NeuroMET Constorium  
Abstract: RS2A.2

Saturday, 12:15 pm (PST)

### Roundtable session 2B

**Theme: Discussions around validity**

<https://berkeley.zoom.us/j/94290644504>

**Chair: Andy Maul**

Zoom host: [perman@berkeley.edu](mailto:perman@berkeley.edu); 310-848-8991

#### RS2B.1

**Title: Discussions around modern validity evidence and best practices**

Author(s): Leigh Harrell-Williams  
Abstract: RS2B.1

#### RS2B.2

**Title: Discussions around modern validity evidence and best practices**

Author(s): Stefanie Wind  
Abstract: RS2B.2

#### RS2B.3

**Title: Discussions around modern validity evidence and best practices**

Author(s): Eli Jones  
Abstract: RS2B.3

## SATURDAY, FEBRUARY 6, 2021

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Break, 1:15 pm (PST)

Saturday, 1:30 pm – 2:00 pm (PST)

### Closing Session

<https://berkeley.zoom.us/j/94290644504>

#### Facilitators:

**Mark Wilson & Minjeong Jeon**

Zoom host: [yukie.toyama@berkeley.edu](mailto:yukie.toyama@berkeley.edu); 415-533-4508