

# IX SEMINAR

## “DATA FROM AND FOR EDUCATIONAL SYSTEMS: TOOLS FOR RESEARCH AND TEACHING”

### Plenary Sessions

**17<sup>th</sup> October: 10:30 - 11:00 a.m.**

**Room 1**

**Organizer: INVALSI**

**Chair: Roberto Ricci (President INVALSI) - Patrizia Falzetti (INVALSI)**

Institutional Greetings

*Roberto Ricci (Presidente INVALSI)*

*Renata Maria Viganò (Full Professor of Educational Research at the Catholic University of the Sacred Heart, Vice-President of INVALSI)*

*Michela Freddano (Head of the Area of the School Evaluation, INVALSI)*

*Patrizia Falzetti (Head of the Area of the Evaluation Research, INVALSI)*

**17<sup>th</sup> October: 11:00 a.m. - 1:00 p.m.**

**Semi - Plenary Session**

**Room 1**

**Organizer: INVALSI**

**Chair: Roberto Ricci (President INVALSI)**

Education policy development and evaluation: what role for data and evidence?

*Stefaan Hermans (Director European Commission - Education, Youth, Sport and Culture)*

Drawing on ICCS data to inform citizenship education research and policy

*Maria Magdalena Isac (University of KU Leuven)*

[Slide](#)

**17<sup>th</sup> October: 4:30 - 6:30 p.m.**

**Panel Discussion**

**Room 1**

**Chair: Daniele Vidoni (Policy Coordinator, European Commission, DG Education, Youth, Sports and Culture)**

Data at the Forefront: Shaping National and International Policies for the European Education Area Through Evidence-Informed Practice

*Speakers:*

*Andrea Netten (Director of IEA Amsterdam)*

*Aline Pennisi (Next generation EU, Ministry of Economy and Finance)*

*Roberto Ricci (President INVALSI)*

*Andrea Saltelli (Professor University Pompeu Fabra Barcelona School of Management)*

*Carmen Tovar Sánchez (Directora del Instituto Nacional de Evaluación Educativa - MEFP, Spain)*

**IX SEMINAR**  
**“DATA FROM AND FOR EDUCATIONAL SYSTEMS:  
TOOLS FOR RESEARCH AND TEACHING”**

**18<sup>th</sup> October: 11:00 a.m. - 1:00 p.m.**

**Semi - Plenary Session**

**Room 1**

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**Organizer: INVALSI**

**Chair: Daniele Vidoni (Policy Coordinator, European Commission, DG Education, Youth, Sports and Culture)**

The twin challenge of equity and excellence in basic skills in the EU

*Marco Montanari (Economic analyst - DG for Education, Youth, Sport and Culture of the European Commission)*

[Slide](#)

Getting the Most out of the Data: How Academic Researchers Can Expand Government Research Capacity

*Susan Dynarski (Patricia Albjerg Graham Professor of Education at Harvard University)*

[Slide](#)

**18<sup>th</sup> October: 4:30 - 6:30 p.m.**

**Symposium**

Gender differences in edu

**Room 1**

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**Organizer: INVALSI**

**Chair: Patrizia Falzetti (Head of the Area of the Evaluation Research, INVALSI)**

**Discussant: Emmanuele Pavolini (Co-president of Board ESPANet Italia)**

Is it a matter of skills? The gender gap in STEM study choices in high school

*Dalit Contini (Professor of social statistics, University of Torino)*

[Slide](#)

Behind the gap: how to interpret the gender gap in standardized tests

*Elena De Gioannis (University of Milan)*

[Slide](#)

Gender differences in career goals and choice of the field of study: a survey at the University of Milan

*Rebecca Ghio (University of Milan)*

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**IX SEMINAR**  
**“DATA FROM AND FOR EDUCATIONAL SYSTEMS:  
TOOLS FOR RESEARCH AND TEACHING”**

**19<sup>th</sup> October: 11:00 a.m. - 12:00 p.m.**

**Semi - Plenary Session**

**Room 1**

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**Organizer: INVALSI**

**Chair: Patrizia Falzetti (Head of the Area of the Evaluation Research, INVALSI)**

Artificial Intelligence and education: emerging regulatory challenges and legal perspectives

*Ernesto Belisario (Lawyer E-LEX, Law firm)*

[Slide](#)

**19<sup>th</sup> October: 12:00 - 1:00 p.m.**

**Panel Discussion**

AI in education: between promises and limits

**Chair: Daniele Vidoni (Policy Coordinator, European Commission, DG Education, Youth, Sports and Culture)**

*Speakers:*

*Patrizia Falzetti (Head of the Area of the Evaluation Research, INVALSI)*

*Marco Lazzari (University of Bergamo)*

*Roberto Ricci (President INVALSI)*

*Renata Maria Viganò (Full Professor of Educational Research at the Catholic University of the Sacred Heart, Vice-President of INVALSI)*

# IX SEMINAR

## “DATA FROM AND FOR EDUCATIONAL SYSTEMS: TOOLS FOR RESEARCH AND TEACHING”

### Parallel Sessions

17<sup>th</sup> October: 2:00 - 4:00 p.m.

Research 1

Room 2

Session 5. International large-scale assessments (ILSAs) methods and results

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Organizer: UNIVERSITY OF KU LEUVEN - UNIVERSITY OF BATH

Coordinator: Andres Sandoval-Hernández (University of Bath)

Using INVALSI Data to Explore Beginner L2 English Learners' Performance while Reading to Grasp the General Meaning of a Text

*Francesca La Russa (INVALSI)*

*Clelia Cascella (INVALSI)*

[Slide](#)

Exploring Creativity Through Standardized Tests: The PISA Framework for Assessing Creative Thinking and an Initial Analysis of the Results of Italian Students

*Margherita Emiletti (INVALSI)*

*Riccardo Pietracci (INVALSI)*

[Slide](#)

Do female students underestimate their technological abilities? Gender differences in general and specialized digital self-efficacy at school

*Juan Castillo (Pontificia Universidad Católica de Chile)*

*Daniel Miranda (Pontificia Universidad Católica de Chile)*

*Nicolás Tobar (Pontificia Universidad Católica de Chile)*

Using Diagnostic Classification Models with TIMSS data to explore mathematics learning in Italy

*Adam Coates (University of Bath)*

[Slide](#)

PV or not PV. How to get random slopes in ILSA

*Diego Carrasco (Centro de Medición MIDE UC)*

*David Torres Iribarra (Centro de Medición MIDE UC)*

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# IX SEMINAR

## “DATA FROM AND FOR EDUCATIONAL SYSTEMS: TOOLS FOR RESEARCH AND TEACHING”

### Research 2

### Room 3

#### Session 1. Different data sources and their integration: policy indicators for the education and training system

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**Organizer: ISTAT**

**Coordinator: Barbara Baldazzi (ISTAT)**

Social Inequality and Student Mobility from Southern Italian Regions: The Interplay between Academic Achievement, Track at Upper Secondary Education and Social Origin

*Andrea Priulla (University of Palermo)*

*Eleonora Miaci (University La Sapienza of Roma)*

*Nazareno Panichella (University of Milano)*

*Massimo Attanasio (University of Palermo)*

[Slide](#)

The gender gap in school-to-university transition in Italy: Insights from the integration between INVALSI and ANS data sources

*Valentina Tocchioni (University of Firenze)*

*Gabriele Lombardi (University of Firenze)*

*Samuele Milone (University of Firenze)*

[Slide](#)

Machine learning Models to identify students at risk to Academic dropout

*Fiammetta Noccioli (INVALSI)*

*Michele Marsili (INVALSI)*

[Slide](#)

Linked administrative data and a multivariate approach to monitor attainment gaps for students with protected characteristics

*Nadir Zanini (OFQUAL)*

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# IX SEMINAR

## “DATA FROM AND FOR EDUCATIONAL SYSTEMS: TOOLS FOR RESEARCH AND TEACHING”

Research 3

Room 4

Session 7. Enhancing financial literacy through education

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**Organizer: POLYTECHNIC UNIVERSITY OF MILAN - UNIVERSITY OF ZURIGO**

**Coordinator: Maddalena Davoli (University of Zurigo)**

Evaluating a Financial Education National Campaign: Experimental Evidence from Italy

*Alessia Sconti (RPTU, University of Milano, Bocconi)*

*Tim Kaiser (University of Kaiserslautern-Landau)*

*Annamaria Lusardi (Stanford Institute for Economic Policy Research)*

*Bilal Zia (World Bank)*

[Slide](#)

Youth characteristics, overconfidence and take-up to voluntary financial education programs

*Alessio D'Ignazio (Bank of Italy)*

*Stefania Merone (University of Oxford)*

[Slide](#)

Understanding of pension systems Intergenerational differences and educational interventions for its promotion

*Carmela Aprea (University of Mannheim)*

[Slide](#)

No Train No Gain: Experimental Economics meets Financial Education

*Gabriele Iannotta (Polytechnic University of Milano)*

*Katharina Hartinger (Johannes Gutenberg University Mainz)*

*Tommaso Agasisti (Polytechnic University of Milano)*

[Slide](#)

Financial knowledge and career aspirations among the young: a route to entrepreneurship

*Massimiliano Stacchini (Bank of Italy)*

*Sara Lamboglia (Bank of Italy)*

*Noemi Oggero (University of Torino)*

*Mariacristina Rossi (COVIP)*

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**IX SEMINAR**  
**“DATA FROM AND FOR EDUCATIONAL SYSTEMS:  
TOOLS FOR RESEARCH AND TEACHING”**

**18<sup>th</sup> October: 9:00 - 10:30 a.m.**

**Research 4**

**Room 2**

**Session 4. INVALSI Data for Impact Assessment: Lights, Shadows, and Potential Developments**

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**Organizer: UNIVERSITY OF MILAN BICOCCA - CATHOLIC UNIVERSITY OF MILAN -  
UNIVERSITY OF BOLOGNA & FBK-IRVAPP**

**Coordinator: Gianluca Argentin (University of Milano Bicocca)**

Teachers' Characteristics and the Reproduction of Educational Inequalities: What Influences the Formulation of Guidance Advice

*Elisa Manzella (University of Milano Bicocca)*

[Slide](#)

Educational disparities among native and immigrant students in Italy: analysis from pre-pandemic to post-pandemic periods

*Francesca Carimando (University of Bologna)*

*Loris Vergolini (University of Bologna)*

*Eleonora Vlach (Goethe University Frankfurt am Main)*

[Slide](#)

Do strict schools yield better academic results? Propensity to retain in high schools and students' academic achievement

*Benedetta Valpreda (University of Torino)*

*Dalit Contini (University of Torino)*

*Guido Salza (University of Milano Bicocca)*

[Slide](#)

Reflections on teachers' practices for an effective and conscious use of standardized assessments

*Maria Chiara Cibien (University of Ferrara)*

*Federica Ferretti (University of Ferrara)*

*Stefania Pozio (INVALSI)*

*Matteo Viale (University of Bologna)*

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# IX SEMINAR

## “DATA FROM AND FOR EDUCATIONAL SYSTEMS: TOOLS FOR RESEARCH AND TEACHING”

Research 5

Room 3

**Session 3. Weakness and excellence in education: for a polysemous and multidimensional idea of equity of educational opportunities**

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**Organizer: INVALSI**

**Coordinator: Paolo Barabanti (INVALSI)**

Academic and socio-emotional skills of high achieving students. An analysis of both cognitive tests and student questionnaire in OECD-Pisa 2022

*Paolo Barabanti (INVALSI)*

*Laura Palmerio (INVALSI)*

*Carlo Di Chiacchio (INVALSI)*

[Slide](#)

Exploring the Influence of Maternal and Teacher Role Models on Gender Differences in Mathematics

*Alice Bertoletti (European Commission - JRC)*

[Slide](#)

Teachers' Learning to Learn conceptions in four countries: foundational support for students' L2L acquisition to close the achievement gap

*Cristina Stringher (INVALSI)*

*Hugo Armando Brito Rivera (Universidad Autónoma Metropolitana, Iztapalapa)*

*Ana Castro Zubizarreta (University of Cantabria)*

*Salvatore Patera (INVALSI)*

[Slide](#)

An efficiency analysis of Italian schools: differences between private and public schools

*Giovanni Antonini (Catholic University of the Sacred Heart)*

*Tommaso Agasisti (Polytechnic University of Milano)*



**IX SEMINAR**  
**“DATA FROM AND FOR EDUCATIONAL SYSTEMS:  
TOOLS FOR RESEARCH AND TEACHING”**

**Research 6**

**Room 4**

**Session 8. Relying on Administrative Data to Analyze Student Careers**

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**Organizer: UNIVERSITY OF PIEMONTE ORIENTALE**

**Coordinator: Carmen Aina (University of Piemonte Orientale)**

Net gains: an investigation of telematic universities' academic performance

*Carmen Aina (University of Piemonte Orientale)*

*Luca Bonacini (University of Bologna)*

*Chiara Mussida (Catholic University of the Sacred Heart)*

*Giuseppe Pignataro (University of Bologna)*

[Slide](#)

General Schools and University Performance

*Cristina Specchi (University of Bologna)*

*Luca Bonacini (University of Bologna)*

*Giuseppe Pignataro (University of Bologna)*

[Slide](#)

The effect of anticipating performance requirements in need-based grants: a natural experiment

*Giuseppe Pignataro (University of Bologna)*

*Luca Bonacini (University of Bologna)*

*Cristina Specchi (University of Bologna)*

[Slide](#)

Math Exposure and University Performance: Causal Evidence from Twins

*Luca Bonacini (University of Bologna)*

*Graziella Bertocchi (University of Modena e Reggio Emilia)*

*Majlinda Joxhe (University of Bologna)*

*Giuseppe Pignataro (University of Bologna)*

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**IX SEMINAR**  
**“DATA FROM AND FOR EDUCATIONAL SYSTEMS:  
TOOLS FOR RESEARCH AND TEACHING”**

**18<sup>th</sup> October: 2:00 - 4:00 p.m.**

**Research 7**

**Room 2**

**Session 5. International large-scale assessments (ILSAs) methods and results**

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**Organizer: UNIVERSITY OF KU LEUVEN - UNIVERSITY OF BATH**

**Coordinator: Ellen Claes (University of KU Leuven)**

Exploring international learning loss patterns: a ML investigation using PISA data before and after COVID -19

*Melisa Lucia Diaz Lema (Polytechnic University of Milano)*

*Melvin Vooren (Vrije Universiteit Amsterdam, ACLA)*

*Ilja Cornelisz (Vrije Universiteit Amsterdam, ACLA)*

*Chris Van Klaveren (Vrije Universiteit Amsterdam, ACLA)*

How does ICT affect school efficiency? Evidence from OECD PISA 2022

*Mara Soncin (Polytechnic University of Milano)*

*Tommaso Agasisti (Polytechnic University of Milano)*

[Slide](#)

School Leadership Support and Socioeconomic Status (SES) Inequalities in Mathematics and Science Achievement: Evidence from TIMSS 2019

*Nurullah Eryilmaz (IEA, Hamburg)*

Inquiry vs General Cognitive Activation Strategies: Shaping Teacher Profiles and Student Science Learning in Italy

*Zhijun Chen (University of Bath)*

*Andres Sandoval Hernandez (University of Bath)*

# IX SEMINAR

## “DATA FROM AND FOR EDUCATIONAL SYSTEMS: TOOLS FOR RESEARCH AND TEACHING”

### Research 8

#### Room 3

### Session 3. Weakness and excellence in education: for a polysemous and multidimensional idea of equity of educational opportunities

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**Organizer: INVALSI**

**Coordinator: Paolo Barabanti (INVALSI)**

Observing and enhancing talent: the first results from the SOPI tool

*Sara Mori (INDIRE)*

*Jessica Niewint (INDIRE)*

*Alessia Rosa (INDIRE)*

*Michela Zambelli (Catholic University of the Sacred Heart)*

Beyond Barriers: Gender, Migration Background and Socio- Economic Inequalities in School Performance in Italy

*Enrico Deleo (University G. d'Annunzio of Chieti)*

*Paola D'Elia (University G. d'Annunzio of Chieti)*

*Sergio Di Sano (University G. d'Annunzio of Chieti)*

[Slide](#)

Challenges and opportunities for an inclusive school: the potential of Evidence-Based Education (EBE)

*Giusi Antonia Toto (University of Foggia)*

*Giorgio Mori (University of Foggia)*

[Slide](#)

Inequality of educational opportunity in Italy: A machine learning approach

*Moris Triventi (University of Milano)*

*Paolo Brunori (University of Firenze, London School of Economics)*

*Emanuele Fedeli (University of Trento)*

*Giovanna Scarchilli (University of Milano)*

A Teacher Professional Development Research to Contrast Educational Poverty

*Giorgio Asquini (University La Sapienza of Roma)*

*Gabriella Agrusti (LUMSA University)*

*Ira Vannini (Alma Mater Studiorum University of Bologna)*

# IX SEMINAR

## “DATA FROM AND FOR EDUCATIONAL SYSTEMS: TOOLS FOR RESEARCH AND TEACHING”

### Research 9

#### Room 4

#### Session 9. Inequality and Educational Outcomes

#### Session 8. Relying on Administrative Data to Analyze Student Careers

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**Organizer: HARVARD AND BOCCONI UNIVERSITY - UNIVERSITY OF PIEMONTE ORIENTALE**

**Coordinator: Daniele Vidoni (Policy Coordinator, European Commission, DG Education, Youth, Sports and Culture)**

Longitudinal effect of early digital experiences on standardized learning outcomes during school career

*Marco Gui (University of Milano Bicocca)*

*Giovanni Maria Abbiati (University of Brescia)*

*Chiara Respi (University of Milano Bicocca)*

*Sofia Ercolanoni (University of Milano Bicocca)*

Indicators for assessing secondary school effectiveness and peers' impacts on facilitating tertiary education access and completion

*Isabella Sulis (University of Cagliari)*

*Mariano Porcu (University of Cagliari)*

*Silvia Culumbu (University of Cagliari)*

*Cristian Usala (University of Cagliari)*

[Slide](#)

The resilience in test scores and the mitigating effect of summer schools one year after the COVID-19 school closures

*Letizia Gambi (KU Leuven)*

*Kristof De Witte (KU Leuven)*

[Slide](#)

Do Financial Incentives Enhance University Participation and Achievement? Evidence from the Great Recession

*Loris Vergolini (University of Bologna)*

*Nadir Zanini (OFQUAL)*

[Slide](#)

Uni.Co: a diachronic model for analyzing the transition paths to employment of graduated students

*Pietro Lucisano (University La Sapienza of Roma)*

*Andrea Marco De Luca (University La Sapienza of Roma)*

*Giulio Lucentini (University of Macerata)*

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**IX SEMINAR**  
**“DATA FROM AND FOR EDUCATIONAL SYSTEMS:  
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**19<sup>th</sup> October: 9:00 - 10:30 a.m.**

**Research 10**

**Room 2**

**Session 5. International large-scale assessments (ILSAs) methods and results**

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**Organizer: UNIVERSITY OF KU LEUVEN - UNIVERSITY OF BATH**

**Coordinator: Jan-Philipp Wagner (University of Bath)**

Italian students' opinions on political and social issues in the IEA ICCS 2022 survey

*Ornella Papa (INVALSI)*

*Michele Cardone (INVALSI)*

*Rita Marzoli (INVALSI)*

[Slide](#)

Comparative Analysis of Civic Education Perceptions: Insights from Mexican and Chilean Teachers

*Citlalli Sanchez-Alvarez (Universidad Autonoma de Baja California)*

Students' future education pathways and their occupational aspirations

*Beti Lameva (National Examinations Centre, North Macedonia)*

*Zaneta Chonteva (National Examinations Centre, North Macedonia)*

[Slide](#)

Results of INVALSI standardized assessment as a tool for professional development of mathematics teachers

*Camilla Spagnolo (University of Ferrara)*

*Maria Chiara Cibien (University of Ferrara)*

*Marta Saccoletto (Free University of Bolzano)*

*Carlotta Soldano (University of Torino)*

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# IX SEMINAR

## “DATA FROM AND FOR EDUCATIONAL SYSTEMS: TOOLS FOR RESEARCH AND TEACHING”

Research 11

Room 3

**Session 4. INVALSI Data for Impact Assessment: Lights, Shadows, and Potential Developments**

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**Organizer: UNIVERSITY OF MILAN BICOCCA - CATHOLIC UNIVERSITY OF MILAN -  
UNIVERSITY OF BOLOGNA & FBK-IRVAPP**

**Coordinator: Loris Vergolini (University of Bologna)**

Informing secondary school students about financial aid: does it affect undergraduate enrollment rates?

*Federica Laudisa (IRES Piemonte)*

*Samuele Poy (University of Piemonte Orientale)*

[Slide](#)

Case Study of Policy Linking National Assessments to Measure SDG 4

*Daniel Shephard (Indiana University Bloomington)*

*David Rutkowski (Indiana University Bloomington)*

Learning losses during pandemic times: what role for school closures choices?

*Silvia Duranti (IRPET)*

*Giada Garbini (Collegio Carlo Alberto)*

*Leonardo Grilli (Collegio Carlo Alberto)*

[Slide](#)

The calculation of added value as a measure of social performance

*Vincenzo Nunzio Scalcione (University of Basilicata)*

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**IX SEMINAR**  
**“DATA FROM AND FOR EDUCATIONAL SYSTEMS:  
TOOLS FOR RESEARCH AND TEACHING”**

**Research 12**

**Room 4**

**Session 10. Mathematical experiences to contrast learning loss and school drop-out in disadvantaged contexts**

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**Organizer: UNIVERSITY OF SALERNO - POLYTECHNIC UNIVERSITY OF MILANO**

**Coordinator: Giovannina Albano (University of Salerno)**

Learning loss in mathematics: the case of evolution in the period 2020-2024 in two comprehensive schools

*Monica Alberti (MIM - PRIMARY SCHOOL)*

*Lucia Cirina (MIM - PRIMARY SCHOOL)*

*Maria Polo (University of Cagliari)*

[Slide](#)

Inclusive education, learning loss and implicit dropout: how to interpret a relationship

*Elisabetta Robotti (University of Genova)*

*Alessandra Boscolo (University of Genova)*

[Slide](#)

Contrasting the development of learning loss in mathematics: a longitudinal challenge

*Federica Ferretti (University of Ferrara)*

[Slide](#)

**IX SEMINAR**  
**“DATA FROM AND FOR EDUCATIONAL SYSTEMS:  
TOOLS FOR RESEARCH AND TEACHING”**

**19<sup>th</sup> October: 2:00 - 4:00 p.m.**

**Research 13**

**Room 2**

**Session 5. International large-scale assessments (ILSAs) methods and results**

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**Organizer: UNIVERSITY OF KU LEUVEN - UNIVERSITY OF BATH**

**Coordinator: Maria-Magdalena Isac (University of KU Leuven)**

Civics Education During a Lockdown: COVID-19 Containment Policies and Grade 8 Student Civic Outcomes

*Alec Kennedy (IEA - Hamburg)*

*Ana María Mejía-Rodríguez (IEA - Hamburg)*

*Rolf Strietholt (IEA - Hamburg)*

[Slide](#)

Can Civic Education compensate social inequalities in civic outcomes? A literature review focused on Large-Scale Assessment Studies

*Daniel Miranda (Pontificia Universidad Católica de Chile)*

An Intersectional Approach to Students' Endorsement of Gender Equality using Multilevel Analysis of Individual Heterogeneity and Discriminatory Accuracy -MAIHDA

*Natalia Lopez-Hornickel (University of Bath)*

*Diego Carrasco (Centro de Medición MIDE UC)*

*Andres Sandoval-Hernández (University of Bath)*

[Slide](#)

Scoring the Education for Sustainable Development (ESD) Subscale on ICCS 2022: Methodological and Conceptual Challenges of Subscores

*David Torres Iribarra (Pontificia Universidad Católica de Chile)*

*Diego Carrasco (Centro de Medición MIDE UC)*

[Slide](#)

Pro-Environmental Dispositions Among Secondary School Students

*Ernesto Trevino (Pontificia Universidad Católica de Chile)*

*Diego Carrasco (Centro de Medición MIDE UC)*



**IX SEMINAR**  
**“DATA FROM AND FOR EDUCATIONAL SYSTEMS:  
TOOLS FOR RESEARCH AND TEACHING”**

**Research 14**

**Room 3**

**Session 9. Inequality and Educational Outcomes**

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**Organizer: HARVARD AND BOCCONI UNIVERSITY**

**Coordinator: Michela Carlana (Harvard and Bocconi University)**

Teacher effectiveness: insights from Italy

*Giulia Assirelli (Catholic University of the Sacred Heart)*

*Giovanni Maria Abbiati (University of Brescia)*

[Slide](#)

Inclusive Teaching and Classroom Relational Climate: Spotting Social Isolation in the Classroom

*Marinella Leone (University of Pavia)*

*Sule Alan (European University Institute, Florence and Bilkent University)*

*Michela Carlana (Harvard University)*

[Slide](#)

School Closures and Education Inequality: Is Online Teaching a Great Equalizer?

*Massimo Anelli (University of Milano, Bocconi)*

*Vincenzo Galasso (University of Milano, Bocconi)*

*Silvia Griselda (University of Milano, Bocconi)*

*Herman G. Van De Werfhorst (European University Institute and Wissenschaftszentrum, Berlin)*

[Slide](#)

Apart but Connected: Online Tutoring, Cognitive Outcomes, and Soft Skills

*Michela Carlana (Harvard University)*

*Eliana La Ferrara (Harvard University)*

[Slide](#)

HERO Teachers: Harboursing Empathy to Raise Opportunities

*Noemi Facchetti (University of Milano, Bocconi)*

*Selene Ghisolfi (Catholic University of the Sacred Heart)*

*Giovanna Marcolongo (University of Milano, Bocconi)*

*Marco Le Moglie (Catholic University of the Sacred Heart)*

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# IX SEMINAR

## “DATA FROM AND FOR EDUCATIONAL SYSTEMS: TOOLS FOR RESEARCH AND TEACHING”

Research 15

Room 4

**Session 6. The accumulation of human capital: a common goal of school, vocational training, and the labour market**

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**Organizer: INVALSI – IRPET - FBK-IRVAPP**

**Coordinator: Davide Azzolini (FBK-IRVAPP)**

School to Work Transitions. A longitudinal study on three cohorts of students in the province of Trento

*Davide Azzolini (FBK-IRVAPP)*

*Sonia Marzadro (FBK-IRVAPP)*

*Mattia Oliviero (University of Trento)*

Participation and Dropout in Piedmont: How Integrating Data Sources Enhances Understanding of the Education and Training System

*Luisa Donato (IRES Piemonte)*

*Carla Nanni (IRES Piemonte)*

[Slide](#)

The origins of the gender wage gap: the role of school-to-work transition

*Giulia Bovini (Bank of Italy)*

*Marta De Philippis (Bank of Italy)*

*Lucia Rizzica (Bank of Italy)*

[Slide](#)

The (many) pillars of human capital accumulation

*Lorenzo Maraviglia (INVALSI)*

[Slide](#)

Regional vocational education and training pathways: A bridge to the completion of secondary education or a shortcut to the labour market?

*Silvia Duranti (IRPET)*

*Valentina Patacchini (IRPET)*

*Francesco Bogazzi (University of Milano Bicocca)*

[Slide](#)

**IX SEMINAR**  
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**19<sup>th</sup> October: 4:30 - 6:30 p.m.**

**Research 16**

**Room 1**

**Session 10. Mathematical experiences to contrast learning loss and school drop-out in disadvantaged contexts**

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**Organizer: UNIVERSITY OF SALERNO - POLYTECHNIC UNIVERSITY OF MILANO**

**Coordinator: Domenico Brunetto (Polytechnic University of Milano)**

Problem solving laboratory: thinking in action in disadvantaged contexts

*Pier Luigi Ferrari (University of Piemonte Orientale)*

*Annarita Monaco (IC "Francesca Morvillo", Roma)*

[Slide](#)

From classroom teaching practice to significant linguistic experiences. How to support mathematics learning in heterogeneous primary school classes

*Emanuela Atz (Bassa Atesina Linguistic Center)*

*Pier Luigi Ferrari (University of Piemonte Orientale)*

*Giovanna Mora (IC "Bassa Atesina", Bolzano)*

[Slide](#)

Co-disciplinarity to reduce early leaving school: math education in a innovative and integrative dialogue with other disciplines

*Antonella Montone (University of Bari)*

*Michele Giuliano Fiorentino (University of Bari)*

[Slide](#)

**IX SEMINAR**  
**“DATA FROM AND FOR EDUCATIONAL SYSTEMS:  
TOOLS FOR RESEARCH AND TEACHING”**

**Research 17**

**Room 2**

**Session 9. Inequality and Educational Outcomes (Gender gap)**

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**Organizer: HARVARD AND BOCCONI UNIVERSITY**

**Coordinator: Agostino Portera (University of Verona)**

The gender gap among Italian students: PISA 2022 mathematics results

*Angela Martini (Independent researcher)*

*Maria Teresa Siniscalco (ADI)*

[Slide](#)

Unmasking gender gaps in reading and mathematics competences: the role of time and space

*Emanuele Fedeli (University of Trento)*

*Andrea Pietrolucci (University of Milano, Statale)*

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The progress of women in science: a longitudinal population study on gender differences into university career in stem

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