



# X SEMINAR

**"Data from and for educational systems:  
tool for research and teaching"**



Thomas George Webster, A Dame's School, 1845

**Rome, 19 - 21 November 2025**

Under the patronage of

---



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

**19<sup>th</sup> November 2025**

- 9.30 a.m. - 10.30 a.m.    **Registration and Welcome coffee**
- 10.30 a.m. - 11.00 a.m.    **Aula Magna**  
**Institutional Greetings**
- 11.00 a.m. - 1.00 p.m.    **Aula Magna**  
**Plenary Session**  
**Organizer:** INVALSI  
**Chair:** *to be defined*  
**Invited Speaker:**  
Thierry Rocher (Director for Evaluation at the Department of Evaluation, Forecasting and Performance, the Statistical Office of the French Ministry of Education), *“to be defined”*  
Saskia Wools (Chair of the Executive Board of Cito), *“to be defined”*
- 1.00 p.m. - 2.00 p.m.    **Lunch**
- 2.00 p.m. - 4.15 p.m.    **Parallel Sessions**  
Aula Magna – Research 1 Session 5  
Aula 5 – Research 2 Session 3  
Aula 4 – Research 3 Session 13
- 4.15 p.m. - 4.30 p.m.    **Coffee Corner**
- 4.30 p.m. - 6.30 p.m.    **Aula Magna**  
**Panel Discussion - Research**  
*Education for Enhancing Competitiveness: What Does Educational Evidence Tell Us?*  
**Chair:** Daniele Vidoni (Policy Coordinator, European Commission, DG Education, Youth, Sports and Culture)  
**Speakers:**  
Julian Fraillon (Director of ICILS, IEA)  
Laura Peck (Principal Scientist and Director of MEF's Income Security and Economic Mobility Domain)  
Roberto Ricci (President of INVALSI)
- Parallel Sessions**  
Aula 5 – Research 4 Session 1  
Aula 4 – Research 5 Session 4

## 20<sup>th</sup> November 2025

- 8.30 a.m. - 10.45 a.m. **Parallel Sessions**  
Aula Magna – Research 6 Session 9  
Aula 5 – Research 7 Session 11  
Aula 4 – Research 8 Session 5
- 10.45 a.m. - 11.00 a.m. **Coffee Corner**
- 11.00 a.m. - 1.00 p.m. **Aula Magna**  
**Plenary Session**  
**Organizer:** INVALSI  
**Chair:** *to be defined*  
**Invited Speaker:**  
Carmen Sanchez Tovar (Director of National Institute for Educational Evaluation, a unit of the Ministry of Education and Vocational Training of the Spanish education system), *“to be defined”*  
Laura Peck (Principal Scientist and Director of MEF's Income Security and Economic Mobility Domain), *“to be defined”*
- 1.00 p.m. - 2.00 p.m. **Lunch**
- 2.00 p.m. - 4.15 p.m. **Parallel Sessions**  
Aula 5 – Research 9 Session 3  
Aula 4 – Research 10 Session 10 – Session 12
- 4.15 p.m. - 4.30 p.m. **Coffee Corner**
- 4.30 p.m. - 6.30 p.m. **Parallel Sessions**  
Aula Magna – Research 11 Session 8

## 21<sup>st</sup> November 2025

- 8.30 a.m. - 10.45 a.m. **Parallel Sessions**  
Aula 5 – Research 12 Session 6  
Aula 4 – Research 13 Session 3
- 10.45 a.m. - 11.00 a.m. **Coffee Corner**
- 11.00 a.m. - 1.00 p.m. **Aula Magna**  
**Plenary Session**  
**Organizer:** INVALSI  
**Chair:** Patrizia Falzetti (Head of the Area of the Evaluation Research, INVALSI)  
**Invited Speaker:**  
Francesco Billari (Rector of Bocconi University of Milano), *“to be defined”*  
Andreas Schleicher (Director for Education and Skills at the Organisation for Economic Co-operation and Development), *“to be defined”*
- 1.00 p.m. - 2.00 p.m. **Lunch**
- 2.00 p.m. - 4.00 p.m. **Parallel Sessions**  
Aula Magna – Research 14 Session 7  
Aula 4 – Research 15 Session 1
- 4.15 p.m. - 6.15 p.m. **Parallel Sessions**  
Aula Magna – Research 16 Session 2  
Aula 5 – Research 17 Session 7

*Research Sessions will be held in English*

**19<sup>th</sup> November: 2.00 p.m. - 4.15 p.m.**

## **Aula Magna – Research 1**

**Session 5. Assessing digital skills and assessing learning with digital: new challenges for schools**

**Organizer: INVALSI - University of Bergamo**

**Coordinator: Paolo Barabanti (INVALSI) - Marco Giganti (University of Bergamo)**

From Frameworks to Classrooms: Digital Competences in Action. Insights from the INVALSI 2023-24 Teacher Questionnaire

*Marco Giganti (University of Bergamo)*

*Paolo Barabanti (INVALSI)*

Profiling ICT Use and Perception in European Schools: A Two-Level Latent Class Analysis

*Giulia Vaiani (Polytechnic University of Milano)*

*Mara Soncin (Polytechnic University of Milano)*

*Tommaso Agasisti (Polytechnic University of Milano)*

A Community of Practice Focused on the Development of Adaptive Assessments for Estimating Mathematical Proficiency at the Fifth-grade Level

*Emanuela Botta (University of Bologna)*

*Stefania Pozio (Independent researcher)*

Grade 5 mathematics test in digital and paper format: What do students think?

*Laura Montagnoli (INVALSI)*

*Francesca Ferrara (University of Torino)*

Computers and Tablets: An Exploratory Study on the Impact of the Possibilities Offered by These Digital Tools

*Cintia Scafa Urbaz Vilchez (INVALSI)*

The INVALSI DigComp digital competence assessment: a data analysis to understand student proficiency profiles and support didactics

*Paola Giangiacomo (INVALSI)*

*Monica Papini (INVALSI)*

*Valeria Fortunata Tortora (INVALSI)*

Digital Learning Spillovers in Education. Why Additional Digital Training Can Backfire

*Massimiliano Bratti (University of Milano)*

*Federica Dalponte (University of Milano)*

## **Aula 5 – Research 2**

**Session 3. International large-scale assessments (ILSAs) methods and results**

**Organizer: University of Bath**

**Coordinator: Maria Magdalena Isac (University of Bath)**

On the Compensatory hypothesis of open classroom discussion. Methodological challenges and how to address them

*Diego Carrasco (Pontificia Universidad Católica de Chile)*

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

Who Welcomes Whom? Understanding Socio-Economic Disparities in Students' Support for Equal Rights for Immigrants

*Francisco Gatica (University of Bath)*

*Jan-Philip Wagner (University of Bath)*

Gender Attitudes among Adolescents: A Systematic Review of International Quantitative Studies (2000–2024)

*Natalia López-Hornickel (University of Bath)*

*Belen Gutiérrez de Rozas (Universidad Nacional de Educación a Distancia)*

*Jesús Vidal ()*

*Andres Sandoval-Hernández (University of Bath)*

Gamson's Mistrustful-Efficacious Political Participation Hypothesis in adolescents from 24 countries using the ICCS 2022 study

*Daniel Miranda (Universidad de Chile)*

*Felipe Sánchez-Barría (Pontificia Universidad Católica de Chile)*

Beyond the Bifactor: Identifying Person Heterogeneity Effects in the ICCS Gender Equality Attitude Scale

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

*Diego Carrasco (Pontificia Universidad Católica de Chile)*

*Fernando Ponce (Universidad Católica del Maule)*

Gender differences in perceptions of open classroom discussion using ICCS 2022

*Ernesto Treviño (Pontificia Universidad Católica de Chile)*

*Catalina Miranda (Massey University)*

*Diego Carrasco (Pontificia Universidad Católica de Chile)*

A Systematic Literature Review: Categorizing and Interpreting Criticism of the International Civic and Citizenship Education Study (ICCS)

*Jan-Philipp Wagner (University of Bath)*

*Francisco Gatica (University of Bath)*

## **Aula 4 – Research 3**

**Session 13. Initial Teacher Education for Secondary Schools: Evidence and Perspectives**

**Organizer: Pegaso Telematic University - University of Foggia**

**Coordinator: Anna Dipace (Pegaso Telematic University) - Andrea Tinterri (Pegaso Telematic University) - Marilena di Padova (University of Foggia)**

Territorial equity in habilitation pathways: an analysis of the ratio of students/places in grade I and II secondary schools

*Marika Lamacchia (University of Macerata)*

*Francesco Facciorusso (University of Macerata)*

*Maria Concetta Carruba (Pegaso Telematic University)*

KTUM: a report on the development of a small-scale pan-European standardised test to measure the mathematical content knowledge of future upper secondary mathematics teachers

*Ottavio Giulio Rizzo (University of Milano)*

E-portfolio as a tool for Building Professional Identity in the Internships for Initial Teacher Education

*Anna Dipace (Pegaso Telematic University)*

*Teresa Savoia (Pegaso Telematic University)*

*Cristiana D'anna (Pegaso Telematic University)*

*Raffaele Di Fuccio (Pegaso Telematic University)*

The school internship of the teaching qualification courses of the eCampus University. The students' point of view and the prospects for improvement

*Paolo Raviolo (University eCampus)*

*Maria Grazia Simone (University eCampus)*

*Daniela Maggi (University eCampus)*

*Antonio Balestra (University eCampus, University of Link)*

Can qualification pathways change the methodological choices of in-service teachers? A longitudinal analysis

*Marilena di Padova (University of Foggia)*

*Maria Concetta Carruba (Pegaso Telematic University)*

*Andrea Tinterri (Pegaso Telematic University)*

*Anna Dipace (Pegaso Telematic University)*

Assessing the Impact of Teaching Qualification Pathways: A Longitudinal Analysis on In-Service Teachers' Self-Efficacy

*Andrea Tinterri (Pegaso Telematic University)*

*Marilena di Padova (University of Foggia)*

*Maria Clara Dicataldo (University of Foggia)*

*Anna Dipace (Pegaso Telematic University)*

Multidisciplinary Centres and Professional Agency: Towards a New Reflective Education

*Viviana Vinci (University of Foggia)*

*Pierangelo Berardi (University of Foggia)*

*Carmela Paladino (University of Foggia)*

**19<sup>th</sup> November: 4.30 p.m. - 6.30 p.m.**

## **Aula 5 – Research 4**

### **Session 1. Territorial Disparities in Education: A Long-Standing Issue Addressable Through New Data and Tools**

**Organizer: University of Milan Bicocca - Catholic University of Milan**

**Coordinator: Gianluca Argentin (University of Milan Bicocca) - Elisa Manzella (Catholic University of Milan)**

New evidence on math summer learning loss from Italy

*Giovanni Abbiati (University of Brescia)*

*Gianluca Argentin (University of Milan Bicocca)*

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

*Rosaria Lumino (University Federico II of Naples)*

Education in Tuscan Inner Areas

*Silvia Duranti (IRPET)*

Measuring Grade Overage by Exploring Its Applicative Potential and Interpretative Dimensions: A Methodological Proposal

*Sibilla Maria Filippi (OXFAM Italy)*

*Lorenzo Luatti (OXFAM Italy)*

Unequal Educational Geographies: Mobility within the Milanese School System"

*Marta Cordini (Polytechnic University of Milano)*

*Andrea Parma (University of Milan Bicocca)*

*Costanzo Ranci (Polytechnic University of Milano)*

School Segregation, Family Choices, and Mobility Trajectories in Primary Schools in Turin

*Ilaria Lievore (Fondazione per la Scuola)*

*Veronica Mobilio (Fondazione per la Scuola)*

Investigating social issues through geospatial analysis: the case of educational poverty and accessibility to services in Catania, Italy

*Daniela Ghio (University of Catania)*

*Elvira Celardi (University of Catania)*

*Agostino Marottoli (University of Catania)*

*Raffaele Auteri (University of Catania)*

## **Aula 4 – Research 5**

### **Session 4 - Learning and Academic Analytics for Educational Quality: Tools for Pedagogical Action and School Governance**

**Organizer: INVALSI**

**Coordinator: Donatella Poliandri (INVALSI)**

Enhancing School Evaluation and Planning through Learning Analytics – Cases from Europe

*Martin Brown (University of Dublin)*

*Donatella Poliandri (INVALSI)*

*Cecilia Saint Pierre (Universidad de Valladolid)*

*Margot Joris (Universiteit Brussel (VUB))*

A Critical Review of Learning Analytics in Education through Socio-Technical and Situated Lenses

*Stefania Capogna (University of Link)*

Administrative and Outcome Data at the final upper secondary exam: Analyzing Students' Choices in Written Tests to Improve Learning Pathways

*Paolo Davoli (USR EMILIA ROMAGNA)*

*Francesco Orlando (USR EMILIA ROMAGNA)*

Making Sense of Data, Rethinking Spaces: A Participatory Reading of School Improvement from the Students' Perspective

*Sebastiana Fisicaro (Rete Sophia 3.0)*

Data Use and Learning Analytics: Teacher Competences and Practices in Five Italian Schools

*Donatella Poliandri (INVALSI)*

*Sara Romiti (INVALSI)*

*Grazia Graziosi (INVALSI)*

*Graziana Epifani (INVALSI)*

Exploring the use of Large Language Models for a pre-assessment of Invalsi-like tests by simulating students' behavior

*Giovanni Puccetti (CNR - ISTI)*

*Alessandra Boscolo (University of Genova)*

From risk identification to strategic action: predictive modelling and dropout profiling in Italian K-12 education

*Lidia Rossi (Polytechnic University of Milano)*

*Antonio Panero (Polytechnic University of Milano)*

*Tommaso Agasisti (Polytechnic University of Milano)*

## **20<sup>th</sup> November: 8.30 a.m. – 10.45 a.m.**

### **Aula Magna– Research 6**

#### **Session 9 - The Italian University Under Pressure: Academic Performance**

**Organizer: University of Piemonte Orientale - University of Modena and Reggio Emilia - University of Bologna**

**Coordinator: Carmen Aina (University of Piemonte Orientale) - Fabrizio Patriarca (University of Modena and Reggio Emilia) - Giuseppe Pignataro (University of Bologna)**

Leniency, and State-Driven Competition: Theory and Evidence from Higher Education

*Carmen Aina (University of Piemonte Orientale)*

*Luca Bonacini (University of Piemonte Orientale)*

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

*Giuseppe Pignataro (University of Bologna)*

Shaken but not Trembled: Assessing Academic Performance in the aftermath of the Emilia-Romagna Earthquake

*Luca Bonacini (University of Piemonte Orientale)*

*Majlinda Joxhe (University of Bologna)*

*Fabrizio Patriarca (University of Modena and Reggio Emilia)*

*Giulia Santangelo (Cedefop)*

(De)Efficiency of Italian Universities: a comparative analysis of Public, Private, and Online Institutions

*Tommaso Agasisti (Polytechnic University of Milano)*

*Gaetano Francesco Coppeta (Polytechnic University of Milano)*

Pathways to excellence: Efficiency and Best Practices in Italian Universities in Research, Collaboration, and Innovation

*Anna Rita Dipierro (University of Calabria)*

*Angela Rella (University of Milano)*

*Pierluigi Toma (University of Salento)*

Open the Floodgates or Skim the Cream? Selective vs. open enrollment policies and the race for talent in Italy

*Enrico Lippo (University of Milano)*

*Massimiliano Bratti (University of Milano)*

*Daniel Kreisman (University of Milano)*

High-Achieving Peers and Student Performance in Selective and Non-Selective University Programs: Evidence from Italy

*Massimiliano Bratti (University of Milano)*

*Enrico Lippo (University of Milano)*

*Andrea Lopes (University of Milano, Statale)*

Early prediction of students at risk of failure: a Machine Learning Approach

*Fiammetta Nocchioli (INVALSI)*

*Michele Marsili (INVALSI)*

*Marcello Napoli (INVALSI)*

STEM at a Distance: Do Telematic Universities Really Narrow the Gender Gap?

*Giuseppe Pignataro (University of Bologna)*

*Carmen Aina (University of Piemonte Orientale)*

*Luca Bonacini (University of Piemonte Orientale)*

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

### **Aula 5 – Research 7**

## **Session 11 - Students with a migratory background, mobility and educational pathways: new challenges for equity and inclusion**

**Organizer: Institute for Migration Research, Universidad de Granada - INAPP - University of Verona**

**Coordinator: Patrizia Rinaldi (Institute for Migration Research, Universidad de Granada) - Giovanna Filosa (INAPP) - Emanuela Gamberoni (University of Verona)**

Early Skills Assessment and the Evolution of Educational Inequalities: Evidence from a Longitudinal Study in Milan

*Gian Paolo Barbetta (Catholic University of the Sacred Heart)*

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

*Alessandro Antonietti (Catholic University of the Sacred Heart)*

*Paola Iannello (Catholic University of the Sacred Heart)*

First-Generation College Graduates (PrimaGen): Inclusion, Support, Empowerment A project of the State University of Milan

*Angela Biscaldi (University of Milano)*

*Giuseppe Mazzarino (Polytechnic University of Milano)*

*Barbara Rosina (University of Milano)*

Learning Loss and Recovery in the COVID-19 Timeline: The Role of the Language Spoken at Home

*Francesca Carimando (University of Bologna)*

*Loris Vergolini (University of Bologna)*

*Eleonora Vlach (Goethe University Frankfurt)*

Double barriers? Gender and migration background in STEM studies access

*Cinzia Conti (ISTAT)*

*Eugenia Bellini (ISTAT)*

*Francesca Dota (ISTAT)*

*Massimo Strozza (ISTAT)*

Bridging the Gap? Educational Achievement Trajectories of Migrant Generations in Italy

*Sara Fiasconaro (University of Trento)*

*Moris Triventi (University of Milano)*

Agenda 2030: Goals 4 and 10 for a quality and inclusive school starting with invals items

*Ivan Graziani (I.C. Meldola)*

*Stefano Babini (Liceo Artistico Statale "Paolo Toschi", Parma)*

Bridging or Widening the Gap? The Role of School-Level Resources for Migrant and Native Student Achievement in Italy

*Elisa Sbalchiero (University of Milano)*

*Emanuele Fedeli (University of Milano)*

*Moris Triventi (University of Milano)*

## **Aula 4 – Research 8**

**Session 5 - Assessing digital skills and assessing learning with digital: new challenges for schools**

**Organizer: INVALSI - University of Bergamo**

**Coordinator: Paolo Barabanti (INVALSI) - Marco Giganti (University of Bergamo)**

Insights from the IEA Computer and Information Literacy Study, 2023

*Julian Fraillon (IEA, Hamburg)*

Digital vs. Traditional Classrooms: An Open Match Between Data, Didactics, and Inequalities

*Brunella Fiore (University of Milano Bicocca)*

Detecting Differential Item Functioning in INVALSI's 2025 Pilot Assessment of Digital Competences

*Luca Bungaro (University of Bologna)*

*Chiara Rita Cunsolo (University of Bologna)*

*Tommaso Giorgi (University of Bologna)*

*Patrizia Falzetti (INVALSI)*

Academic Achievement of Grade 8 Students and Digital Competence: Evidence from a Joint Analysis of INVALSI and ICILS Data

*Luca Bungaro (University of Bologna)*

*Marta Desimoni (INVALSI)*

*Mariagiulia Matteucci (University of Bologna)*

*Stefania Mignani (University of Bologna)*

Automatic Item Generation through AI in Educational Testing: a Systematic Review

*Francesca La Russa (INVALSI)*  
*Rita Marzoli (INVALSI)*  
*Antonella Mastrogiovanni (INVALSI)*  
*Alessia Mattei (INVALSI)*

The M.I.E.L.E. Project: Digital Transition and Distributed Leadership in Educational Institutions  
*Monia Berghella (USR EMILIA ROMAGNA)*  
*Paolo Davoli (USR EMILIA ROMAGNA)*  
*Francesco Sacchetti (University of Urbino Carlo Bo)*

**20<sup>th</sup> November: 2.00 p.m. - 4.15 p.m.**

## **Aula 5 – Research 9**

**Session 3 - International large-scale assessments (ILSAs) methods and results**

**Organizer: University of Bath**

**Coordinator: *Andres Sandoval Hernandez (University of Bath)***

Italian students expected electoral participation: insights from IEA ICCS 2022

*Michele Cardone (INVALSI)*  
*Ornella Papa (INVALSI)*  
*Rita Marzoli (INVALSI)*

Beyond Achievement Gaps: Gender Differences in Educational Quality Configurations Across OECD Countries through Latent Profile Analysis

*Manuel Cheyre (Pontificia Universidad Católica de Chile)*

Analyzing the Use of Accommodations and Exclusion Rates for ICILS 2023: The French Example

*Elodie Vezon Persem (DEPP French Ministry of Education)*  
*Adrien Fernandez (DEPP French Ministry of Education)*

Indicators for sustainability and climate change education in international large-scale assessments: early insights from the IMP>ACT Project

*Riccardo Pietracci (INVALSI)*  
*Adam Coates (University of Bath)*  
*Maria Magdalena Isac (University of Bath)*  
*Laura Palmerio (INVALSI)*

Trends in Socioeconomic Inequalities in Reading Literacy Across Grades in European Countries Over Time

*Andrea Pietrolucci (University of Milano, Statale)*  
*Nathalie Vigna (University of Milano)*  
*Giuliana Parente (University of Milano)*

Intercultural Competences in the International Civic and Citizenship Education Study (ICCS)

*Agostino Portera (University of Verona)*

Equalizing Early? The Effects of ECEC Expansion on Achievement Levels and Gaps Across Countries

*Giuliana Parente (University of Milano)*  
*Guido Salza (University of Milano)*  
*Moris Triventi (University of Milano)*  
*Nathalie Vigna (University of Milano)*

Digital Literacy in Context: A Multilevel Analysis of Individual, School, and Country Inequalities Using ICILS Data

*Tomas Urzua (Universidad de Chile)*  
*Juan Carlos Castillo (Universidad de Chile)*

## **Aula 4 – Research 10**

**Session 10 - Data Literacy and Data Use in a Digital Age**

**Session 12 - Support teachers and co-teaching models for inclusion: investigating equity in the Italian Educational System through case studies and comparative perspectives**

**Organizer: University of Bari - FBK-IRVAPP - INDIRE**

**Coordinator: Serafina Pastore (University of Bari) - Davide Azzolini (FBK-IRVAPP) - Sonia Marzadro (FBK-IRVAPP) Sara Mori (INDIRE) - Serena Greco (INDIRE) - Francesca Storai (INDIRE)**

Understanding Data Literacy for Teaching: Insights from a Focused Literature Review on Practice in Schools

*Sonia Marzadro (FBK-IRVAPP)*

*Davide Azzolini (FBK-IRVAPP)*

*Olga Gorodetskaya (FBK-IRVAPP)*

Data Literacy in the Evaluation Process of state-recognized private schools

*Sara Pastore (INVALSI)*

Large-scale Assessments' Data-use: How Support Teachers' Assessment and Data Literacy

*Serafina Pastore (University of Bari)*

Evaluation, Recognition, and Improvement: Using Student Questionnaires to Enhance Teaching Quality in Upper Secondary Schools

*Francesco Pisanu (Provincia Autonoma di Trento)*

*Paolo Pancheri (I.T.T. "G. Marconi", Rovereto)*

*Giuseppe Rizza (Provincia Autonoma di Trento)*

*Francesco Rubino (Provincia Autonoma di Trento)*

Mathematics as tool for artificial intelligence literacy

*Maria Cristina Carrisi (University of Cagliari)*

*Sara Vergallo (University of Macerata)*

*Mirko Marras (University of Cagliari)*

Towards an ecology of inclusion

*Graziella Arazzi (USR LIGURIA)*

*Marina Orselli (I.C. "Pegli", Genova)*

*Paola Giannoni (University of Genova)*

Support teachers and the educational community: a systemic interpretation of professional identity and training development

*Sara Mori (INDIRE)*

*Francesca Storai (INDIRE)*

*Serena Greco (INDIRE)*

The role of the support teacher in inclusive schools: theoretical reflections and research perspectives on co-teaching

*Giuseppe Filippo Dettori (University of Sassari)*

*Marialuisa Pinna (EURISPES)*

**20<sup>th</sup> November: 4.30 p.m. - 6.30 p.m.**

**Aula Magna - Research 11**

**Session 8 - The Strategic Role of Data for an Evidence-Informed Culture to shed light on Teachers' Professionalism in Social Contexts**

**Organizer: University of Milan Bicocca - INVALSI**

**Coordinator: Gianluca Argentin (University of Milan Bicocca) - Paolo Barabanti (INVALSI)**

Job Satisfaction and Work Meaning: Teachers in the Italian Labour Market

*Ivan Blancato (University of Milano Bicocca)*

Peer review as a lever for quality improvement in vocational education and training: roles, competencies, and their assessment

*Diego Boerchi (Catholic University of the Sacred Heart)*

*Laura Evangelista (EQAVET)*

*Concetta Fonzo (EQAVET)*

"Focus on Teachers' Well-Being and Motivation in the Light of Evidence-Informed Data"

*Maria Chirico (MIM - Scuola Secondaria Secondo Grado)*

*Alessandra De Angelis (Liceo Artistico "G. Sello", Udine)*

Assessment Practices and Opinions of English as a Foreign Language Teachers: An Exploratory Study Based on Data from the INVALSI Teacher Questionnaire

*Francesca La Russa (INVALSI)*

Student Participation, School Climate and Educational Governance: A National Multi-Stakeholder Survey in Upper Secondary Schools

*Giulia Gabriella Pastori (University of Milano Bicocca)*

*Valentina Pagani (University of Milano Bicocca)*

*Mara Soncin (Polytechnic University of Milano)*

*Alessandra Maiorano (University of Milano Bicocca)*

## **21<sup>th</sup> November: 8.30 a.m. - 10.45 a.m.**

### **Aula 5 – Research 12**

**Session 6 - Evaluating the Impact of Education Policies: Counterfactual Approaches and Evidence for Basic Skills Improvement**

**Organizer: European Commission**

**Coordinator: Marco Montanari (European Commission, Directorate General for Education, Youth, Culture and Sports), Daniele Vidoni (European Commission, Directorate General for Education, Youth, Culture and Sports)**

The Impact of School Canteens on Academic Performance: Evidence from Primary Schools

*Federica Dalponte (University of Milano)*

Computing Education and Computational Thinking: A Counterfactual Analysis Using ICILS 2023 Data

*Riccardo De Alessandri (University of Piemonte Orientale)*

*Giovanni Lari (University of Piemonte Orientale)*

The effect of school district consolidation on student achievement and staff absenteeism

*Letizia Gambi (University of KU Leuven)*

*Kristof De Witte (University of KU Leuven)*

Impact of Social Media on Students' Academic Performance

*Giovanni Lari (University of Piemonte Orientale)*

*Riccardo De Alessandri (University of Piemonte Orientale)*

Neoliberal and Democratic school-level policies: Global distribution and consequences for achievement inequalities

*Moris Triventi (University of Milano)*

*Andrea Pietrolucci (University of Milano, Statale)*

Reducing the teaching penalty: the impact of an experience-based salary reform on second career teacher recruitment

*Jacob Van Belle (University of KU Leuven)*

*Willem De Cort (University of KU Leuven)*

*Mike Smet (University of KU Leuven)*

### **Aula 4 – Research 13**

**Session 3 - International large-scale assessments (ILSAs) methods and results**

**Organizer: University of Bath**

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

Children of Immigrants' Academic Effort. Evidence from PISA computer-based tests in 56 countries

*Eleonora Vlach (Goethe University Frankfurt)*

*Loris Vergolini (University of Bologna)*

Measuring Digital Self-Efficacy in International Large-Scale Assessments: An International Comparison Between ICILS and PISA

*Juan Carlos Castillo (Universidad de Chile)*

*Daniel Miranda (Universidad de Chile)*

*Tomas Urzua (Universidad de Chile)*

Moving Beyond Averages: Climate Strength and the Classroom Experience in TIMSS 2019 and 2023

*Zhijun Chen (University of Bath)*

A catalogue of challenges facing the use of diagnostic classification models to analyse large-scale assessment data

*Adam Coates (University of Bath)*

Trends in reading teacher shortage: Using 20 years of evidence from PIRLS

*Nurullah Eryilmaz (IEA, Hamburg)*

Interaction between ICT Use and Academic Performance and Educational Equity in the Italian Context

*Marina García-Herrero (University of Salamanca)*

*Fernando Martínez-Abad (University of Salamanca)*

*María-José Rodríguez-Conde (University of Salamanca)*

The Effect of Early Home Learning Activities on Achievement at the End of Primary Education

*Alec Kennedy (IEA, Hamburg)*

*Rolf Strietholt (IEA, Hamburg)*

*Nina Högbe (University HAW Hamburg)*

*Andres Strello (IEA, Hamburg)*

**21<sup>th</sup> November: 2.00 p.m. - 4.00 p.m.**

**Aula Magna – Research 14**

**Session 7 - Inequalities in Educational Attainment and the Role of Teachers and School Principals**

**Organizer: University of Piemonte Orientale - University of Milano Bicocca - University of Bergamo**

**Coordinator: *Giorgia Casalone (University of Piemonte Orientale) - Alessandra Michelangeli (University of Milano Bicocca) - Jurgena Myftiu (University of Bergamo)***

Educational segregation in upper secondary schools: a school data-based analysis

*Lorenzo Luatti (OXFAM Italy)*

*Sibilla Maria Filippi (OXFAM Italy)*

Lost Learning and Regional Resilience: The Impact of COVID-19 on Educational Inequality in Italy

*Alessandra Michelangeli (University of Milano Bicocca)*

*Giorgia Casalone (University of Piemonte Orientale)*

*Kateryna Tkach (Gran Sasso Science Institute)*

Understanding the Gender Gap in Mathematics through the Didactic Contract: Insights from INVALSI Assessments

*Serena Monica (University of Ferrara)*

Gender stereotypes and children's performance in primary schools

*Piera Bello (University of Bergamo)*

*Annalisa Cristini (University of Bergamo)*

*Federica Origo (University of Bergamo)*

Understanding compositional effects: how classes' socio-economic and ethnic composition of schools affect educational trajectories

*Costanzo Ranci (Polytechnic University of Milano)*

*Andrea Parma (Polytechnic University of Milano)*

*Francisco Ferraioli (Polytechnic University of Milano)*

Intercultural Competence Profiles in Pre-Service Teachers: A Multidimensional Analysis

*Giusi Antonia Toto (University of Foggia)*

*Guendalina Peconio (University of Foggia)*

*Alessandro De Santis (University of Foggia)*

*Pierpaolo Limone (Pegaso Telematic University)*

Evidencing the dynamics of educational inequalities: Attainment gaps in English secondary schools between 2018 and 2024

*Nadir Zanini (Cambridge University Press & Assessment)*

## **Aula 4 – Research 15**

**Session 1 - Territorial Disparities in Education: A Long-Standing Issue Addressable Through New Data and Tools**

**Organizer: University of Milan Bicocca**

**Coordinator: Gianluca Argentin (University of Milan Bicocca) - Elisa Manzella (University of Milano Bicocca)**

Educational Achievement and Territorial Inequalities in Italy: An Integrated Analysis of INVALSI and Open Government Data

*Elisa Manzella (University of Milano Bicocca)*

The use of georeferenced data to analyze territorial disparities in Education

*Michele Marsili (INVALSI)*

*Fiammetta Noccioli (INVALSI)*

*Patrizia Falzetti (INVALSI)*

Clouded minds: the impact of air pollution on students' cognitive performance

*Simone Ferro (University of Milano)*

*Elena Meschi (University of Milano Bicocca)*

*Caterina Pavese (IFO)*

Systemic Learning Loss or Territorial Disparities? The Impact of the Pandemic on Student Achievement and School Value-Added in Italy

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

*Salvatore Vassallo (University of Bologna)*

Inequality of Educational Opportunities by Social Background: Geographical Variations and Contextual Drivers in Italy

*Moris Triventi (University of Milano)*

*Emanuele Fedeli (University of Milano)*

*Andrea Pietrolucci (University of Milano, Statale)*

*Nathalie Vigna (University of Milano)*

Peer Socioeconomic Effects on Academic Track Enrollment

*Emanuele Fedeli (University of Milano)*

*Moris Triventi (University of Milano)*

**21<sup>th</sup> November: 4.15 p.m. - 6.15 p.m.**

## **Aula Magna – Research 16**

**Session 2. Exploring Educational Poverty: Conceptual and Methodological Approaches Through the Integration of Official Statistical Data Sources**

**Organizer: ISTAT**

**Coordinator: Barbara Baldazzi (ISTAT)**

Cultural deprivation and educational inequality: territorial patterns and future risks in Italy

*Massimo Armenise (ISTAT)*

*Alessandro Caramis (ISTAT)*

Measuring Educational Poverty: An Empirical Comparison of Two Indices Using Individual-Level Data

*Giulia Biazzi (University of Brescia)*

*Francesca Milzani (University of Brescia)*

Preschool Attendance and Long-Term Learning Outcomes for Italian Children: An Exploratory Study Using INVALSI Data

*Lorenzo Maraviglia (INVALSI)*

*Cristina Stringher (INVALSI)*

Measuring and Mapping Educational Poverty: survey results among youth in Naples and the province

*Rosaria Romano (University "Federico II" of Naples)*

*Rosa Fabbriatore (University "Federico II" of Naples)*

*Cristina Davino (University "Federico II" of Naples)*

Educational Accessibility and University Mobility: Evidence from the Italian Context

*Cristian Usala (University of Cagliari)*  
*Jacopo Moreschini (University of Cagliari)*  
*Mariano Porcu (University of Cagliari)*  
*Isabella Sulis (University of Cagliari)*

Educational poverty in the Italian Social Districts  
*Miria Savioli (ISTAT)*  
*Elisabetta Segre (ISTAT)*

## **Aula 5 - Research 17**

**Session 7 - Inequalities in Educational Attainment and the Role of Teachers and School Principals**  
**Organizer: University of Piemonte Orientale - University of Milano Bicocca - University of Bergamo**  
**Coordinator: *Giorgia Casalone (University of Piemonte Orientale)* - *Alessandra Michelangeli (University of Milano Bicocca)* - *Jurgena Myftiu (University of Bergamo)***

Mathematics score determinants at Grade 5: missing values recovery and variable selection via knockoffs  
*Silvia Bacci (University of Firenze)*  
*Emanuela Dreassi (University of Firenze)*  
*Leonardo Grilli (University of Firenze)*  
*Carla Rampichini (University of Firenze)*

Equity or Efficiency? The Role of School Principals in Mediating Accountability Pressures  
*Francesco Balzaretto (University of Milano)*  
*Tommaso Agasisti (Polytechnic University of Milano)*  
*Moris Triventi (University of Milano)*

The role of high schools' performance on inequalities in educational attainment and student mobility  
*Maria Berrittella (University of Palermo)*  
*Francesco Salomone Marino (University of Palermo)*

Why Do Some Schools Perform Better Than Others? Exploring the Black Box of the School Effect  
*Giorgia Casalone (University of Piemonte Orientale)*  
*Alessandra Michelangeli (University of Milano Bicocca)*  
*Jurgena Myftiu (University of Bergamo)*

Towards Participatory Teaching: the State of Active Learning in Italy  
*Althea Bianca Dal Ben (University of Milano Bicocca)*  
*Anna Loi (University of Milano Bicocca)*  
*Ivan Blancato (University of Milano Bicocca)*  
*Sofia Ercolanoni (University of Milano Bicocca)*

The Gender Grading Gap in Italy: Heterogeneity, Trajectories, and Consequences from Large-Scale Population Student Data  
*Carlos J. Gil-Hernández (University of Firenze)*  
*Giovanni Abbiati (University of Brescia)*  
*Ilaria Lievore (Fondazione per la Scuola)*

Exploring educational inequalities through multilevel intersectional analysis (MAIHDA)  
*Leonardo Grilli (University of Firenze)*  
*Enrico Contin (University of Firenze)*