

## II biannual Workshop on Technological change, health, inequality and data for policy evaluation

24 and 25 February, 2022

Torino, Piazza Arbarello 8 – Collegio Carlo Alberto

A joint initiative of:

**Youth employment  
partnerSHIP**

<https://yepartnership.carloalberto.org/>



The workshop will propose two thematic sessions on *“Technological change in the workplace during the fourth industrial revolution”* and *“Health and inequality”* and a policy-oriented session (in Italian) on *“Data and models for the design, monitoring and evaluation of labour market policies at local level”*

**Maria Savona** (SPRU Science Policy Research Unit, University of Sussex UK and Department of Economics and Finance, Luiss University) and **Giuseppe Costa** (University of Torino and Epidemiology Unit of Piedmont Region) will give the keynote speeches.

The workshop will take place at Collegio Carlo Alberto, Piazza Arbarello 8 Torino.

**The “super green pass” is mandatory to take part in presence at the workshop.** All attendants (**speakers included**) must wear ffp2 masks for the entire duration of the event.

To attend the workshop in presence, **please register by e-mail: [silvia.maero@carloalberto.org](mailto:silvia.maero@carloalberto.org)**

An on-line channel will be open for the whole duration of the event for those not able to attend in presence.

**To follow on-line** please use this link: <https://bit.ly/3AY3FFv>

**Video presentations** of the posters are available at:

<http://laboratoriorevelli.it/it/events/ii-biannual-workshop-technological-change-health-inequality-and-data-policy-evaluation>

## Program

Thursday 24 February

13.45-14.00 Welcome address: Lia Pacelli (President of the LABORatorio Riccardo Revelli)

### Session 1: Technological change

The past few years have witnessed the rise in the development and adoption by firms of 4IR-related technologies, which include, among others, artificial intelligence, automation, and machine learning. The potential effects of these technologies on the economy and society are huge, and the labor market is likely to be particularly affected. 4IR-related technologies promise to drastically change the firms' production processes as well as the organization of human resources within firms. While academic interest on these topics is increasing, relatively few studies have investigated the labor market consequences of 4IR technologies up to now from a firm-level or worker-level perspective. The use of firm-level, worker-level and linked employer-employee data offers unmatched opportunities to study the dynamics of technological change in the workplace, and allows answering important research questions. What is the impact of 4IR-related technologies on wages and employment? Are wages and employment outcomes different for low- and high-skilled workers and routine and non-routine jobs? How do rent-sharing dynamics differ across these types of jobs? In other words, is wage inequality increasing as the 4IR paradigm becomes more pervasive?

14.00-16.00 Session 1, Technological change – first part

Chair: Elena Grinza (University of Torino)

14.00-15.00 Keynote speech: **Maria Savona** (SPRU, University of Sussex and DEF, LUISS University), "Automation and occupation. A systematic literature review"

15.00-15.30 Michele Battisti, Massimo Del Gatto, **Antonio Francesco Gravina**, Christopher F. Parmeter, "Robots versus labor skills: A complementarity/substitutability analysis"

15.30-16.00 **Mauro Caselli**, Andrea Fracasso, Sergio Scicchitano, Silvio Traverso, Enrico Tundis, "Stop worrying and love the robot: An activity-based approach to assess the impact of robotization on employment dynamics" ([on-line](#))

16.00-17.00 Coffee break and poster presentations

17.00-18.30 Session 1, Technological change – second part

Chair: Elena Grinza (University of Torino)

17.00-17.30 **Giorgio Brunello**, Désirée Rückert, Christoph T. Weiss, Patricia Wruuck, "The impact of training and advanced digital and automation technologies on productivity and wages" ([on-line](#))

17.30-18.00 **Filippo Bontadini**, Rinaldo Evangelista, Valentina Meliciani, Maria Savona, “Asymmetries in global value chain integration, technology and employment structures in Europe: country and sectoral evidence”

18.00-18.30 **Bernardo Caldarola**, Marco Grazzi, Martina Ocellini, Marco Sanfilippo, “Mobile internet, skills and structural transformation in Rwanda”

## Session 1's Posters

Fabio Berton, Stefano Dughera, Andrea Ricci, “Are unions detrimental to innovation? Theory and evidence”

Andrea Borsato, André Lorentz, “Data production and the co-evolving AI trajectories: An attempted evolutionary model”

Francesco Carbonero, Jeremy Davies, Ekkehard Ernst, Frank M. Fossen, Daniel Samaan, Alina Sorgner, “The impact of artificial intelligence on labor markets in developing countries: A new method with an illustration for Lao PDR and Viet Nam”

Stefano Dughera, Francesco Quatraro, Andrea Ricci, Claudia Vittori, “Technological externalities and wage premium: new evidence from Italian labor markets”

Valerio Intraligi, Claudia Vittori, Andrea Ricci, “Job polarization in Italy: structural change and routinization”

Giovanni Minchio, “Impact of the amendment to art.18 on Piedmont workers' skills”

Friday 25 February

## Session 2: Data and models for the design, monitoring and evaluation of labour market policies at local level (in Italian)

In recent decades, policies which aim to improve the conditions of specific groups of subjects - individuals, families, firms - by offering a service, providing an incentive, or some combination thereof have assumed increasing importance. At the same time, there is an increasing need of providing clear and detailed answers to the questions: "Was the intervention effective? Has the target it was designed for actually been reached?". The growing availability and knowledge in the use of administrative data for statistical purposes is helping answering these questions more and more precisely. The aim of the workshop is to compare initiatives implemented in different regions and local contexts, to present the results and to discuss which opportunities are already available and which are the most interesting future prospects. It will also be an opportunity to present some international best practices developed within the **Youth Employment partnerSHIP** project which analysed youth employment policies in 4 countries (Italy, Spain, Poland and Hungary).

09.00-12.30 See separate program (in Italian)

12.30-14.00 Lunch

## Session 3: Health and inequalities

Health inequality is the difference in health between different groups of people. It can include differences in life expectancy, differences in getting a particular disease or functional limitation, and differences in recovering due to unequal access to good quality care. These differences are the result of multiple mechanisms and factors, among which the inequalities in material and immaterial resources and opportunities that stem from the labor market play a crucial role. Disparities in education, income, employment protection, job quality and satisfaction, physical and psychological conditions, are just few of the many dimensions that can be related to unequal health. At a time when income and health inequalities across the world are widespread and often increasing, even due to the pandemic, the 2nd LABOR Workshop provides a forum where evidence relevant to the measurement and analysis of the relationship between inequalities that originate in the labor market and health – or viceversa - can be discussed and shared.

14.00-16.10 Session 3, Health and inequalities – first part

Chair: Chiara Ardito (University of Torino and Epidemiology Unit of Piedmont Region)

14.00-15.00 Keynote speech: **Giuseppe Costa** (University of Torino and Epidemiology Unit of Piedmont Region), "Building back fairer: policy response to health inequalities in Europe at the time of the pandemic"

15.00-15.30 Invited speech: **Monica Galizzi**, "Incentives and outcomes for injured workers in the 21st century: lesson learned, unanswered questions, and directions for future research"

15.30-16.00 Invited speech: **David Blane**, “Measurement of health in labour market economics: perspectives from other disciplines” ([on-line](#))

16.00-17.00 [Coffee break and poster presentations](#)

17.00-19.00 [Session 3, Health and inequalities – second part](#)

17.00-17.30 **Armanda Cetrulo**, Dario Guarascio, Maria Enrica Virgillito, “Working from home and the explosion of enduring divides: Income, employment and safety risks”

17.30-18.00 **Carlo Lallo** e Sergio Ginebri, “Social Inequalities and their Impact on Projected Italian Pension Expenditure”

18.00-18.30 **Paolo Brunori**, Davillas Apostolos, Andrew M. Jones, Giovanna Scarchilli, “Model-based recursive partitioning to estimate unfair health inequalities in the United Kingdom Household Longitudinal Study” ([on-line](#))

18.30 [Riccardo Revelli prize award and closing remarks](#)

### [Session 3's Posters](#)

Ainoa Aparicio Fenoll, Judit Vall Castello, “The impact of job security on workers’ health”

Elena Bassoli, Agar Brugiavini, Irene Ferrari, “Care provision at the time of the Covid-19: who suffers most”

Enrica Croda, “The socioeconomic status gradient in pain: A cross-country analysis”

Jennifer Chubinski, Sarah E. Walsh, “Exploring mental health and coping among the most vulnerable older adults in the early months of COVID-19 in the United States”

Simone Chinetti, “Later life human capital investment: Evidence from the unintended effects of a pension reform”

Cinzia Di Novi, Paolo Paruolo, Stefano Verzillo, “The role of employment protection legislation in shaping the impact of job disruption on older workers’ mental health in times of COVID-19”