



Europass Curriculum Vitae

Personal information

First name / Surname

Mario Mezzanica

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Working experience

Academic activity – Teaching

2005 - Today

Associate Professor of “Information System”

Employer

University of Milan Bicocca – Department of statistics and quantitative methods.

Type of business or sector

Teaching and Research activities

2005 - Today

Scientific Director of CRISP – Interuniversity Research Centre on Public Services,

Employer

University of Milano-Bicocca

Type of business or sector

Research

2016 - Today

Member of the Scientific Committee of ALMALAUREA

Employer

The Almalaurea Consortium.

2012 - Today

Member of the Scientific Committee of the European Network on Regional Labour Market Monitoring

Employer

The Network on Regional Labour Market Monitoring is a European-wide, non-profit organisation to further concepts and instruments in the field of Regional Labour Market Monitoring.

Type of business or sector

Research

Postgraduate Masters

2005- 2009

Teacher at the master “Information and Communication Technology (ICT) Management”, by University of Milan Bicocca.

2006

Teacher at the master “Mediation expert in the process of approaching to job”, by University of Genova

Since 2010

Director of the Master “Business Intelligence and Big Data Analytics”, by University of Milan Bicocca.

Management Courses

2001-2002

Lecturer “Health management – the information system in health” by University of Milan Bicocca in collaboration with Il Sole 24 ore and Maugeri Foundation.

2002

Lecturer “Professional training to directors of complex structures in the sector of Health – informational systems in Health”, by Scuola di Amministrazione Aziendale of University of Turin.

Academic activity – Research

The main area of interest is Information Systems and Big Data where he has carried on several research activities that have been published on scientific journals, conference proceedings, and books both at international and national level.

Information Systems and Decision-Making

This research area studies and analyses the methodological aspects of design and management of institutional data (both public or private) to maximise the informational efficiency of the decisional process. The approach and methodologies have been applied to several different uses focusing on the needs of individual organizations. Furthermore, a particular attention is given to methodologies and techniques for the implementation of Statistical Information Systems and data mining to support “knowledge” needs and decision-making process of public services.

In this setting he has developed a methodology for processing and analysing administrative data on labour market, data for supporting VET activities and evaluation, and Web job vacancies. Here, as a director of the CRISP, he guided several projects for top regions in Italy, and has conducted research with several partners at European level.

Big Data and Analytics

Recently, the rapid diffusion of Information Systems has made available a huge amount of data, that require the use of Big Data techniques and methodologies for dealing with huge masses of data coming from several sources (structured and unstructured), as they represent a valuable value for enterprises and PAs for deeply understand social, economic and business phenomena. His research in this direction has covered all the main step of the data cycle process, which includes the data selection and integration; data preprocessing, transformation and cleaning; (statistical) data mining and multidimensional data visualization as well. Specifically, he investigated automatic techniques for big data cleaning (i.e., based both of AI and ETL methods), machine learning, information extraction and knowledge representation (even using NoSQL approached) applying it successfully to the labour market domain to scale over million unstructured items (i.e., job vacancies, CVs, etc.).

Collaborations with Organisations and Institutions

Several research activities, national and international, have taken place, together with participations in technical and scientific committees activated by public Institutions, aimed at the study of new models and methodologies of design, monitor and evaluation of innovation projects with relevant impact on models of supply and management of public services based on new technologies I& CT. In several projects he holds a scientific coordination role in the project or in the research unit.

European Network on Regional Labour Market monitoring

Since 2007 he is research partner European Network on Regional Labour Market Monitoring. The network develops research initiatives on regional labour market across European countries promoting methods for the study research and analysis of regional labour market monitoring. Within this network he has contributed also to the "Initiative for Networking Regional and Local Labour Market Observatories" within which he has contributed to the analysis of data on regional and local employment and professional development, on unemployment and inactivity as well as vocational and further education.

Committees Membership

- He is member of the Editorial and Review Board of International journals and conferences in the Artificial Intelligence and Information System fields (e.g., Applied Intelligence, DATA, SEBD)
- He is chair and organiser of the KomIS special session (Knowledge Discovery meets Information Systems: Experiences and lessons learned dealing with real-life scenarios) at DATA conference, held in Vienna, Austria, 2014. He is also chair of the KomIS 2015 (Colmar, France, July 2015)
- He held responsibility roles in the steering committees of a European research projects as SEEMP (Single European Employment Market-Place), ARLI (Achieving National and Regional Impact) and National research project as well (Decision Theater - Smart Cities and Communities and Social Innovation MIUR).
- He has partnered with the role of advice and coordination in several projects for innovation of public services working with several Italian Public Institutions at both national and regional level.

Award and Grant

- [2008] Winner of the IBM Faculty Award on SSME - Service Sciences Management Engineering
- [2013] Best paper award at the Human-Computer Interaction and Knowledge Discovery, 1-3 July 2013, Maribor, Slovenia, with the paper "Inconsistency Knowledge Discovery for Longitudinal Data Management: A Model-Based Approach," published at SouthCHI13 special session on Human-Computer Interaction & Knowledge Discovery, Lecture Notes in Computer Science, vol. 7947
- [2014] Best paper award at the DATA 2014, International Conference on Data Management Technologies and Applications, Vienna 28-30 August 2014, with the paper "Improving Data Cleansing Accuracy: A model-based Approach", In Proceedings of the 3rd International Conference on Data Technologies and Applications (DATA) (pp.189-201). Insticc.

Education and training

Dates	1985
Title of qualification awarded	Degree in Electronic Engineering
Name and type of organisation providing education and training	Politecnico di Milano

(Selected) Research Projects

- **“Real-time Labour Market information on Skill Requirements: Setting up the EU system for online vacancy analysis”**. The project granted by Cedefop Agency aims at extending the working prototype of the previous project, setting up the system to all EU Country members, building a Big Data system able to collect, classify vacancies, extract skills and to perform analytics at real-time, using the ESCO system as target taxonomy for both occupations and skills. (February 2016 - ongoing)
- **“Real-time labour market information on skill requirements”**. The project aimed at developing a working prototype for the Cedefop Agency. The purpose of the contract was (i) to explore the feasibility of using online sources of LMI to identify skill needs and changing skill requirements across occupations in Europe in real time and (ii) to develop, implement and evaluate a working prototype system (Jan2015-May2016).
- **OMLRL**. The project has focused on the strengthening of the production structure of the Labour Market Observatory. The aim of the project is in knowledge generation for supporting the decision making process, focusing on the labour market policy definition. A model for data analysis has been defined based on administrative data sources, by obtaining a statistical knowledge base exploited for supporting the generation of new statistical indicators (2009-2014).
- **CSI Piemonte**: The project has focused on the study and definition of innovative data models for the Labour Market through the integration of several (external) Labour Market data sources. A Statistical Information System for decision making support has been realised, together with several reports concerning the analysis of the labour market dynamics at territorial level (2012-2014).
- **SEEMP (Single European Employment Market-Place)**. It is a European research project within the 6th FP. The project has dealt with the realisation of distributed architecture - through semantic-based reasoning techniques - to allow labour market operators of several participating countries to share relevant information about job demands and offers, by dealing with the different languages and information representation issues. Furthermore, a DW for the decision support system has been generated as (one of) the outcomes of the project (2006-2009).
- **AMeRiCA**. The project was born from the collaboration between the Milan municipality and the Department of Statistics of the University of Milan-Bicocca. The project is concerned with the improvement of (socio-economic) aspects related to municipality administrative datasets by supporting the decision making for active policies. To this end, a Statistical Information System has been realised that allows one to (1) create statistical descriptive analyses and (2) compute statistical indicators for supporting the decision making on the basis of multivariate data models (2003-2010).
- **OMdLF**. The project has been devoted to the realisation of the Labour Market Observatory based on a federated data model for the enhancement of human capital. To this end, the project has dealt with the data model integration of several data sources (both statistical and economical), that has been then analysed for the generation of indicators for supporting the decision making activities in the context of active policy design, educational and training paths as well (2009-2010).

- **ARLI (Achieving National and Regional Impact)**. It is a EU founded project (PROGRESS Programme) which was aimed at improving the skills governance and provision of labour market intelligence at European, national, regional and local level, enhancing the involved stakeholders' ability to anticipate skills supply and demand. The project has involved 7 partners from 6 different countries and has included two main tasks: (1) the analysis of the information needs of labour market stakeholders and (2) the exploration of how existing regional and local provision of skills forecasting could be enhanced, including through interrelation with EU Skill Panorama; CRISP realized all the tasks focusing on the Italian national and regional context (2013-2014).

He is involved in the realisation of the following commercial solutions:

- **WollyBI: www.wollybi.com** A commercial tool that exploits machine learning for classifying multilingual Web Job vacancies (gathered from web sources) over the standard ESCO taxonomy, thus supporting the decision making activities of several labour market stakeholders

Personal skills and competences

Mother tongue(s) Italian

Other language **English**

Self-assessment
European level (*)

Understanding		Speaking		Writing			
Listening		Reading		Spoken interaction		Spoken production	
C1	C1	C1	C1	C1	C1	C1	C1

(*) [Common European Framework of Reference for Languages](#)

Social skills and competences Excellent interpersonal skills both to colleagues and stakeholders

Organisational skills and competences High organizational and leadership skills

Computer skills and competences Excellent computer skills