

# Clementina Bruno

## PERSONAL DATA

Born in Varallo (Italy), October 28<sup>th</sup>, 1981.

Residing in Serravalle Sesia (VC, Italy)

## BIO AND EDUCATION

After a diploma in accounting (at the "ITC B. Caimi", Varallo, Italy, 1999) and a bachelor in Business (University of Piemonte Orientale, Novara, Italy, 2006), Clementina Bruno achieved master degrees in business (University of Piemonte Orientale, Italy, 2008) and Economics (Université Catholique de Louvain, Belgium, 2010), and a Doctorate in Economics and Management of the Technology (University of Bergamo, Italy, 2012). After a research period at HERMES Research Centre (Turin, Italy) and University of Piemonte Orientale, she is now working as research fellow at University of Piemonte Orientale.

## UNIVERSITY CAREER

2015-2016	Contract lecturer, University of Piemonte Orientale
2013-	Research fellow, University of Piemonte Orientale
2011-2013	Research fellow (Lagrange Project), at Hermes Research Centre and University of Piemonte Orientale

## MAIN FIELDS OF INTEREST

1. Management
2. Efficiency analysis
3. Public Utilities
4. Network services
5. Tourism sector

## CURRENT ISSUES OF RESEARCH

### 1. The scale and scope economies and efficiency in Local Public Services

This issue of research aims to measure the economies of scale and scope in public utilities (providing water, gas and electricity), and their degree of operational efficiency. These themes provide

essential information both for regulatory purposes and to support decision-making (from managerial and policy perspectives).

## **2. Sustainability and environment: the case of the management of Municipal Solid Waste service**

Within this research field, we have the purpose of investigating the technological characteristics of the collection and disposal of municipal solid waste (economies of scale, scope and density). A special focus is given to the impact on costs and profits of the introduction of environmentally friendly methods such as the door-to-door collection. In the same area of interest, attention is paid to the link between operative efficiency and the social phenomenon of corruption.

## **3. Strategic decisions of travel agencies**

This issue of research aims to analyse the activity of Italian travel agencies, from the operating perspective. The analysis focuses, above all, on the evaluation of agencies' efficiency, using Data Envelopment Analysis (DEA) enriched with bootstrapping techniques. Then, the determinant of the estimated efficiency will be evaluated, with focus on particular characteristics of the agents' activity, such as the percentage of revenues from incoming/outgoing streams or the participation in networks.

## **4. The social cost of interruptions in energy supply.**

This issue of research aims to evaluate the economic and non-economic (social) cost associated with a power outage. The analysis, based on a choice experiment, aims to measure this value in terms of willingness to accept bill discounts as compensation for hypothetical interruptions, by analysing the interviewees' preferences by means of econometric techniques.

## **5. Impact of the diffusion of renewable sources on the performance of companies operating in the electricity supply chain**

Renewable energy sources (RES) have environmental benefits but involve issues of intermittency and limited programmability, which can affect the activity of producers and of network operators. The research aims to measure this effect from the perspective of the operating efficiency of firms active in the sector. Empirically, we intend also consider the effect due to the mechanisms of demand response, which can mitigate the problems associated with intermittency.

### **TOP FIVE PAPERS**

1. Abrate, G., Bruno, C., Erbetta, F., Fraquelli, G. (2015) "Business innovation and waste management sustainability: the case of door-to-door collection", *Sinergie, Italian Journal of management* Vol. 33, n. 98, pp. 377-393
2. Bruno, C., Guidi, L., Lorite-Espejo, A., Pestonesi, D. (2015) Analysis and economic assessment of a potential cyber-attack on the Italian electric system. *IEEE Security and Privacy*, 13, 5, pp. 42-51
3. Bruno, C., Manello, A. (2015). Benchmarking and effects of reforms in the fixed telecommunications industry: a DDF approach. *Telecommunications Policy*, 39 , pp. 127-139.

4. Bruno, C., Di Giacomo, M., Fraquelli, G. (2015) Effects of the opening of the energy markets on the cost efficiency of the big European players: a stochastic frontier approach, in *Il ruolo dell'azienda nell'economia: esiste un modello aziendale orientate alla crescita?*, Il Mulino. (Selected paper from the AIDEA 2013 Conference.)
5. Bruno, C., Erbetta, F. (2013). Benchmarking regulators. A DEA analysis of Italian water authorities' performance, in *Handbook of Research on Strategic Performance Management and Measurement Using Data Envelopment Analysis*. ed. Osman, Anouze & Emrouznejad.

#### **AWARDS**

1. *Best paper award* at the conference *Global Growth Agendas: Regions, Institutions and Sustainability (Regional Studies Association annual conference 2015)*, Piacenza 24-27<sup>th</sup> May 2015, with the paper "Business innovation and waste management sustainability: the case of door-to-door collection"