

# CURRICULUM VITÆ

## FEDERICO BELOTTI

### ADDRESS

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Faculty of Economics  
Tor Vergata University  
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### PERSONAL DETAILS

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Date of birth: 1976, December 17<sup>th</sup>  
Place of birth: Rome  
Nationality: Italian  
Languages: English (good), Italian (native)

### CURRENT POSITION

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10/2009 → today  
Research fellow  
University of Rome “Tor Vergata”  
Project: *“Productivity and Performance of the Italian NHS: a quantitative analysis”*  
CEIS - Ministry of Health

### RESEARCH INTERESTS

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Microeconometrics, Health Econometrics, Economics of IT and networks

**EDUCATION**

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9/2006 – 7/2011

Ph.D. in “*Econometrics and Empirical Economics*” (EEE)

University of Rome “Tor Vergata”

Title: *Three Essays on Applied Econometrics*

Supervisor: Prof. Vincenzo Atella

Examinators: Prof. Partha Deb (CUNY and NBER)

Prof. William Greene (Stern School of Business, NYU)

9/2004 – 8/2005

M.Sc. in Economics

University of Rome Tor Vergata

Major: Quantitative Methods (MEI)

9/1996 – 7/2004

Degree in Economics, Financial Markets and Institutions

University of Rome Tor Vergata

Major: Econometrics (Supervisor: Prof. Franco Peracchi)

Title: *The Smoking behavior in Europe: evidence from ECHP microdata*

**REFEREED JOURNAL PAPERS**

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“Translation from Narrative Text to Standard Codes Variables with Stata” with Depalo D., *Stata Journal*, 10(3), (2010), 458-481

“Technology Adoption and Innovation in Public Services. The Case of E-Government in Italy” with Arduini D., Denni M., Giungato G., Zanfei A., *Information Economics and Policy*, 22 (2010), 3, 257-275.

**ITALIAN JOURNAL PAPERS**

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“Discussione” a “Assicurazione sanitaria di Barigozzi F.”, con Atella V., *Rivista di Politica Economica*, IX-X (2006), 257-273.

“L’innovazione nelle amministrazioni pubbliche: evidenza sulla diffusione dell’eGovernment in Italia” with Arduini D., Denni M., Giungato G., Reggi L., Zanfei A., *Economia e Politica Industriale*, 2 (2008), 173-186.

“La diffusione dell’eGovernment presso i Comuni italiani: il ruolo dei legami fra servizi di back e front office” with Arduini D., Denni M., Giungato G., Reggi L., Zanfei A., *Economia dei Servizi*, 3 (2008), 337-360.

**BOOK CHAPTERS**

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“La spesa sanitaria privata in Italia: le evidenze empiriche”, with Atella V., in *La sanità in Italia* (2008), edited by Pedone A., Il Sole24ore, Roma.

**UNPUBLISHED PAPERS**

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“Can better drug treatment improve long-run financial sustainability of NHS in Italy? The case of Statins”, with Atella V., Cortese C., D’Amico F.

“Le tecnologie dell’informazione e della comunicazione: lo stato della diffusione nelle imprese italiane ed europee negli anni 2005 – 2007 e un’analisi dell’impatto sull’efficienza tecnica” with Denni M., Giungato G., Nurra A.

**WORKING PAPERS**

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“Technology Adoption and Innovation in Public Services. The Case of E-Government in Italy” with Arduini D., Denni M., Giungato G., Zanfei A., *Working Papers*, 0804, Università di Urbino Carlo Bo.

“Disentangling true determinants of drug therapy effectiveness: A double fixed effects approach”, with Atella V. and Depalo D., *CEIS Research Papers*, 186, Tor Vergata University. (submitted to Review of Economics and Statistics)

**WORK IN PROGRESS**

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“Minimum Density Power Divergence Estimation for  $m$ -components Poisson Mixtures Regression Models”, with Deb P.

“Practical Identification in Stochastic Frontier Models with Unobserved Heterogeneity”, with Atella V., Daidone S. and Ilardi G.

“Frequentist and Bayesian Stochastic Frontier Analysis with Stata”, with Daidone S., Ilardi G.

“Consistent Estimation of the “True” Fixed-effects Stochastic Frontier Model”, with Ilardi G.

“A Bayesian True Random Effect Estimator for Stochastic Frontiers: An Application based on Italian Hospitals”, with Atella V., Daidone S. and Ilardi G., Marini G. (submitted to Journal of Health Economics)

***On-line periodics:***

15/02/2007 “Ma l’Authority non serve”, with SISPER research group  
published on *lavoce.info*

14/06/2007 “Gli sconti non sono uguali per tutti”, with Atella V., published on *lavoce.info*

08/2008 “Prevenzione farmacologica e spesa. Un’analisi a livello regionale”, with Atella V.,  
D’Amico F., published on *Care*

**REFEREE FOR**

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*Value in Health, Journal of Probability and Statistics, Labour*

**PRESENTATIONS AT CONFERENCES AND SEMINARS**

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**2011**

European Workshop on Efficiency and Productivity Analysis, Verona, IT

**2010**

Annual Health Econometrics Workshop, Detroit, MI

**VISITING POSITIONS**

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9/2010 – 4/2011

Visiting researcher

The City University of New York (Hunter College)

Department of Economics

**PROFESSIONAL EXPERIENCE**

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09/2008 → today

**SIMG / Health Search** (Supervisor: Prof. Atella V., Prof. Cricelli C.)

Activities: Economic analysis of EPR data, microsimulation and report writing:

- i*) Design and development of a simulation model for National Health System costs
- ii*) Epidemiological and economic analysis of type II diabetes mellitus
- ii*) Epidemiological and economic analysis of dyslipidemia

05/2008 – 02/2009

**Confcommercio** (Supervisor: Dr. Bella M.)

Research office

Activities: Economic analysis of statistical data and report writing:

*i)* Estimation of an error correction Almost Ideal Demand System

*ii)* Forecast households consumption with ARIMAX models to compute ICC index

07/2008 – 12/2008

**ISTAT** (Supervisor: Dr. Giungato G.)

Directorate of Structural Economic Statistics

Project: “*Data collection and analysis on ICT adoption and use in enterprises*”

Activities: Econometric analysis and report writing

Eurostat Grants 2008

10/2007 – 12/2007

**ISTAT** (Supervisor: Dr. Giungato G.)

Directorate of Structural Economic Statistics

Project: “*Data collection and analysis on ICT adoption and use in enterprises*”

Activities: Econometric analysis and report writing

Eurostat Grants 2007

6/2006 – 12/2006

**ISTAT** (Supervisor: Dr. Giungato G.)

Directorate of Structural Economic Statistics

Pilot survey on: “*ICT Expenditures and Investment in Local Governments*”

Activities: Survey design and management

Eurostat Grants 2006

04/2006 – 04/2007

**Faculty of Economics, University of Urbino** (Supervisor: Prof. Zanfei A.)

Project: “*The Diffusion of ICT in the Italian Public Sector*”

Activities: Econometric analysis and report writing

9/2005 – 07/2007

**ISTAT** (Supervisor: Prof. Zamaro N.)

Directorate of Structural Economic Statistics

Project: “*Sistemi informativi per la predisposizione di un rapporto annuale su determinazione delle dotazioni organiche, analisi dei fabbisogni e rilevazioni delle eccedenze nelle pubbliche amministrazioni*”

(funded by Dipartimento della Funzione Pubblica)

Activities: Economic analysis of statistical data and report writing:

*i)* Design and development of a simulation model for manpower planning

*ii)* Evaluation of italian hospitals' technical efficiency by means of stochastic frontier and data envelopment analysis

## TEACHING

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10/2009–12/2009

Tor Vergata University, Rome

Module: Introduction to Stata

Master of Development Economics and International Co-operation

10/2008– 6/2009

LUISS University, Rome

Teaching assistant, Macroeconomics

Prof. Vallanti G.

3/2007–9/2008

LUISS University, Rome

Teaching assistant, Econometrics and Statistics for Economics

Prof. Vallanti G.

## AWARDS

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**2011**

Award for the Best “Young Researcher” Paper

“Consistent Estimation of the “True” Fixed-effects Stochastic Frontier Model”

European Workshop on Efficiency and Productivity Analysis, Verona, IT

## COMPUTER SKILLS

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**OS:** Linux, MacOSX, Windows (Server 2003/2008, 7, Vista, XP)

**Stat-programming:** Stata and Mata (advanced programming, certified), R (advanced), SAS (intermediate), SPSS (intermediate), Eviews (intermediate), Matlab (intermediate), Octave (basic), Sage (Basic), Mathematica (basic), Maple (basic), Fortran90 (basic), C (basic)

**Scripting:** BASH (advanced), Python (intermediate)

**Database:** MS Access, MySQL, MS SQL, PosgreSQL

**Word processing:** MS Word, L<sup>A</sup>T<sub>E</sub>X

**Presentation - drawing:** L<sup>A</sup>T<sub>E</sub>X beamer, MS Powerpoint, Adobe Photoshop, Corel Draw

**Web-Server:** Apache, Zope

**Web Design:** PHP (basic), HTML, DHTML. Advanced use of Dreamweaver, Flash, Fireworks, MS Frontpage. Webmaster and Co-founder of the [econometrics.it](http://econometrics.it) and [sisper.istat.it](http://sisper.istat.it) web sites. Developer of the web-based interface to the Economics and Accounting student database and management of the CUNY (Economics) website

**CMS:** Plone, Joomla, WordPress