

Efficiency in Education Workshop Programme & Book of Abstracts

19-20 September 2014
London, UK



**THE WORK
FOUNDATION**
PART OF LANCASTER UNIVERSITY



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UNIVERSITY





It is a pleasure to welcome you to Lancaster University's Work Foundation for this conference on Efficiency in Education.

The Work Foundation is a London based think-tank that serves as Lancaster University's base in the capital. It transforms people's experience of work and the labour market through high quality applied research that empowers individuals and influences public policies and organisational practices.

The research agenda of the Work Foundation is wide ranging, covering labour market disadvantage, human resource management, health and wellbeing in the workplace, and demographic issues. Of particular interest in the context of this conference is our work on productivity and on skills.

The origins of the Work Foundation go back to 1918. It has had several name changes over the years, but acquired its current name in 2002, when the Industrial Society sold its training arm to Capita, leaving the Work Foundation as a think-tank focused on delivering research and policy advice to government and business. It became part of Lancaster University in 2010.

Lancaster University Management School has a long tradition of work in the area of efficiency. Its Operational Research department (now Management Science) was the first university department of its kind in the UK, and – alongside the rest of the university – celebrates its 50th anniversary this year. Indeed this conference forms part of the anniversary celebrations. Lancaster's work specifically on the economics of education has been at the forefront of work in this area for the last quarter of a century.

This conference promises to be a landmark event in the analysis of efficiency in education. We hope you will find it fruitful.

The Organising Committee, Efficiency in Education Workshop:

Geraint Johnes, Lancaster University Management School

Jill Johnes, Lancaster University Management School

Mike Tsionas, Lancaster University Management School

Emmanuel Thanassoulis, Aston Business School

Giannis Karagiannis, University of Macedonia

Friday 19 September 2014

08.30 – 09.30

Registration

09.30 – 09.45

Welcome Talk

Geraint Johnes

Director of The Work Foundation

09.45 – 10.15

Invited Speaker

Emmanuel Thanassoulis

Aston University, UK

*Assessing Research Productivity in Terms of Endogeneity or
Exogeneity of Academic Salaries*

Co-authors:

D. Despotis, D. Sotiros, Y. Smirlis

10.15 - 11.15

Session 1a

CHAIR: Roberto Zotti

- ◆ *The Impact of the Financial Crisis on the Efficiency of Italian Universities*

Mattia Cattaneo, **Davide Donina**, Michele Meoli, Stefano Paleari, Davide Scotti

- ◆ *Regional Growth and Human Capital in Italy Using a Spatial Approach: Is There a Quality Effect of University Efficiency?*

Cristian Barra, **Roberto Zotti**

Session 1b

CHAIR: Tommaso Agasisti

- ◆ *Efficiency in Education Achievements: A Regional Disparities Analysis*

Giuseppe Coco, **Raffaele Lagravinese**, Christian A. Mongeau Ospina

- ◆ *Using OECD-Pisa Data for Estimating the Efficiency of Secondary Schools in an International Perspective: Preliminary Results*

Tommaso Agasisti, Pablo Zoido

11.15 – 11.45

Coffee Break

11.45 - 12.45

Session 2a

CHAIR: Chandra Shah

- ◆ *Productivity Pay-offs from Academic Mobility: Should I Stay or Should I Go?*

Ana Fernández-Zubieta, Aldo Geuna, **Cornelia Lawson**

- ◆ *Incentives for Relocating to Regional Australia: Estimates Using a Choice Experiment*

Aaron Nicholas, **Chandra Shah**

Session 2b

CHAIR: Gabriela Sicilia

- ◆ *Measuring School Demand in the Presence of Spatial Dependence: A Conditional Approach*

Laura López-Torres, Diego Prior

- ◆ *Dealing with the Endogeneity Issue in the Estimation of Educational Efficiency Using Nonparametric Techniques*

Daniel Santín, **Gabriela Sicilia**

12.45 – 13.30

Lunch Break

13.30 – 14.00

Invited Speaker

Maria Conceição A. Silva Portela

Centro de Estudos em Gestão e Economia da Católica Porto

Efficiency and Value Added in Secondary Education: The case of Portugal

14.00 - 15.30

Session 3a

CHAIR: José F. Maripani

- ◆ *Efficiency Measurement of Turkish Public Universities with Data Envelopment Analysis*

Taptuk Emre Erkoç

- ◆ *How Efficient Are Our Universities? A Stochastic Frontier Analysis of English and Welsh Universities*

James Carroll, Adrian Gourlay, Anthony Glass, Thomas Weyman-Jones

- ◆ *Technical Efficiency and Total Factor Productivity Growth in Chilean Higher Education*

José F. Maripani, Víctor H. Moreira López, Boris E. Bravo-Ureta

Session 3b

CHAIR: Daniel Santín

- ◆ *Assessing European Primary School Performance Through a Conditional Nonparametric Model*

José Manuel Cordero, Daniel Santín, Rosa Simancas

- ◆ *Student Learning Assessment: A Non-Compensative Robust Composite Measure in Italy*

Francesco Vidoli

- ◆ *The Teacher Effect: An Efficiency Analysis from a Natural Experiment in Spanish Primary Schools*

Daniel Santín, Gabriela Sicilia

15.30 – 16.00

Coffee Break

16.00 – 17.00

Keynote Speaker

Kristof De Witte

Katholieke Universiteit Leuven

Efficiency in Education. A Review of Literature and a Way Forward

18.30 – 20.30

Reception at the House of Lords

Saturday 20 September 2014

09.15 - 09.45

Coffee

09.45 – 10.15

Invited Speaker

Jill Johnes

Lancaster University, UK

University Mergers in England: Effects on Efficiency

Co-author:
Mike Tsionas

10.15 - 11.15

Session 4a

CHAIR: Cecilio Mar-Molinero

- ◆ *Evaluating Impact of Mexican Higher Education Policy on State Universities Using Direct and Indirect Technology.*

Herberto Rodríguez-Regordosa, Pablo Arocena-Garro, Emili Grifell-Tatjé

- ◆ *Exploring the Efficiency of Mexican Universities: Integrating DEA and MDS*

Tommaso Agasisti, **Cecilio Mar-Molinero**, Marti Sagarra

Session 4b

CHAIR: María-Jesús Mancebón

- ◆ *Efficiency of Upper Secondary Schools in Finland: Evaluating Persistent and Non-Persistent Differences in Value Added*

Mika Kortelainen, Heikki Pursiainen, Jenni Pääkkönen

- ◆ *Financial Literacy, Maths Performance and Private Publicly Subsidised Schools in Spain*

María-Jesús Mancebón, **Domingo Pérez Ximénez de Embún**

11.15 – 11.45
Coffee Break

11.45 - 12.45

Session 5a

CHAIR: Ann Veiderpass

- ◆ *An Evaluation and Explanation of Higher Education Institutions' Inefficiency in Europe and in the U.S. with Application of Two Stage Semi-Parametric DEA*

Joanna Wolszczak-Derlacz

- ◆ *Evaluating the Performance of Higher Education Institutions in Europe: A Non-Parametric Efficiency Analysis of 944 Institutions*

Ann Veiderpass, Maureen McKelvey

Session 5b

CHAIR: John McCormack

- ◆ *The Long Term Effects of Early Educational Selection – a Quasi-Natural Policy Experiment from Hungary*

Klára Gurzó, **Dániel Horn**

- ◆ *Who are Department Heads?*

John McCormack

12.45 – 13.30

Lunch Break

13.30 – 14.00

Invited Speaker

Giannis Karagiannis

University of Macedonia, Greece

*Assessing Research Productivity at Faculty and Department
Level: The Case of Greek Departments of Economics*

Co-author:
Georgia Paschalidou

14.00 - 15.30

Session 6

CHAIR: Finn Forsund

- ◆ *Nonparametric Estimation of Adequacy in Education*

John Ruggiero, Shae Brennan, Carla Haelermans

- ◆ *Efficiency of Australian Technical and Further Education Institutes*

Peter Fieger, Renato A. Villano, Ray W. Cooksey

- ◆ *Productivity of Norwegian Institutions of Higher Education*

Dag Fjeld Edvardsen, **Finn R. Førsund**, Sverre A. C. Kittelsen

15.30 – 16.00

Coffee Break

Efficiency and Value Added in Secondary Education: The case of Portugal

Maria Conceição A. Silva Portela

School effectiveness is often assessed through value-added studies that take into account students' achievement on entry of a certain schooling period and compare it with achievement on exit from the same period. This comparison is a means to assess the extent to which the school has added value to the students it received. In Portugal we have been using value added analysis in AVES program since 2005 (AVES is run by a private institution and is administered only to participating schools – over 40 schools in 2014). Historical data from the application of this program over a long period of time reveals some interesting conclusions regarding the way Portuguese schools add value to their students. In particular the behaviour of schools differs depending on the cycle of studies, and it also varies depending on the type of students (high ability or low ability on entry). In parallel with AVES program, there is also a benchmarking website BESP, where exam results are every year uploaded and translated into a graphical interface for consultation by schools and the general public. Within BESP schools can perform aggregate performance assessments in real time based on a user-specified set of variables. BESP is available since 2009 and an analysis of some of its features will also be undertaken. We conclude, detailing on the main difficulties faced by schools on the use of evaluation programs, whose main aim is to foster their continuous improvement but not always succeed in this purpose.