

## PERSONAL INFORMATION



Title [DR ]  
Name VALENTINA BOSETTI  
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Nationality Italian  
Date of birth 25, 04, 1973

## EDUCATION

**PhD** University of Milano  
• Date Dec 1999-Jan 2003  
• Principal subjects covered “Computational Mathematics and Operational Research”  
“Stochastic Programming and Decision Theory in the Management of Natural Resources”  
Awards Prize Italgas 2004: DEBUT IN THE WORLD OF RESEARCH

**MSc** University College London  
• Date Sept. 1998 – Sept.1999  
• Principal subjects covered Environmental and Resources Economics  
Grants English Nature Grant

**Master** University of Milan - Bicocca  
• Date Feb-Jul 1998  
• Principal subjects covered Statistics Techniques in Data Analysis

**Degree** University of Milan - Bicocca  
• Date Sept 1992- Nov 1997  
• Principal subjects covered Environmental Sciences

## PROFESSIONAL AND ACADEMIC EXPERIENCES

• Dates (from – to) 2006-now

- Name and address of institution Euro-Mediterranean Center on Climate Change (CMCC), Italy
  - Occupation or position held Senior Researcher, Climate Impacts and Policy Division
    - Main activities and responsibilities Modeler
  
- Dates (from – to) 2003-now
- Name and address of institution Fondazione Eni Enrico Mattei
  - Occupation or position held Senior Researcher, Climate Change Modeling and Policy program
    - Main activities and responsibilities Coordinator of the “Long Term Scenarios and Mitigation Policies” research team, Project responsible (Transust.Scan, TOCSIN)
  
- Dates (from – to) June 2005 – June 2006
- Name and address of institution NOAA (National Oceanic and Atmospheric Administration), National Marine Fisheries Service, Southwest Fisheries Science Center, Santa Cruz Laboratory, 110 Shaffer Road, Santa Cruz, CA 95060
  - Occupation or position held Applied Mathematician Consultant
    - Main activities and responsibilities Modeler
  
- Dates (from – to) March 2004
- Name and address of institution University of Milan, Department of Economics, Via Conservatorio 7 -- 20122 Milano
  - Occupation or position held Lecturer in Environmental Economics
    - Main activities and responsibilities Teaching Environmental Economics at Graduate Level
  
- Dates (from – to) 2003/2004 – 2004/2005 - 2005/2006
- Name and address of institution University of Sassari, Department of Architecture, Alghero (SS).
  - Occupation or position held Contract Professor in Environmental Economics
    - Main activities and responsibilities Teaching Environmental Economics and Environmental Valuation at Undergraduate Level
  
- Dates July 2003 and September 2004
- Name and address of institution Santa Cruz University and National Marine Fishery Laboratory (NOAA)
  - Occupation or position held Visiting scientist
    - Main activities and responsibilities Developing Mathematics Techniques in Solving an Optimal Fishery Management Problem
  
- Dates (from – to) 2002/2003 – 2003/2004
- Name and address of institution University of Milan - Bicocca, Department of Environmental Sciences, P.zza della Scienza 1 - 20126 Milano.
  - Occupation or position held Lecturer in Environmental Valuation
    - Main activities and responsibilities Teaching Environmental Economics at Graduate Students Level
  
- Dates (from – to) 2000/2001 – 2001/2002 – 2002/2003
- Name and address of institution University of Milan – Bicocca
  - Occupation or position held T. A. Financial Mathematics, Operation Research and Environmental Resources Management
    - Main activities and responsibilities Teaching Operation Research, Environmental Resources Management at Graduate Students Level

- Dates (from – to) March 2003
- Name and address of institution L'école des Hautes Etudes Commerciales de l'Université de Genève (CH)
  - Occupation or position held Visiting Researcher
  - Main activities and responsibilities Research on Stochastic Programming and Economic-Climate Modelling
  
- Dates (from – to) April 2001
- Name and address of institution California Polytechnic, College of Business CalPoly (CA, USA)
  - Occupation or position held Visiting PhD Student
  - Main activities and responsibilities Research on Option Theory applied to Natural Resource Management
  
- Dates (from – to) May 2001
- Name and address of institution Cornell University, Department of Applied Economic and Management (NY, USA)
  - Occupation or position held Visiting PhD Student
  - Main activities and responsibilities Research on Option Theory applied to Natural Resource Management  
Course on Stochastic Optimization

#### AFFILIATIONS/MEMBERSHIPS

EAERE, European Association of Environmental and Resource Economists

#### PUBLICATIONS

- Journals and Books
  - Bosetti, V. R. Gerlagh, and S. Schleichner (eds) (2007), *Modeling Transitions to Sustainable Development*, London: Edward Elgar Publishing
  - Bosetti, V., Galeotti, M. "The impact of technical progress on sustainability policy" *Modeling Transitions to Sustainable Development*, Springer-Verlag (forthcoming in 2008).
  - Bosetti, V., Lanza, A., Cassinelli, M., "Benchmarking In Tourism Destination, Keeping In Mind The Sustainable Paradigm" - Part II; 165-180, in: Matias, A., Nijkamp, P., Neto, P., (eds). *Advances in Modern Tourism Research*, Springer-Verlag Publishing (May 2007)
  - Tavoni, M., Sohngen, B., Bosetti, V. "Forestry and the carbon market response to stabilize climate", *Energy Policy* 35 (2007) 5346–5353.
  - Bosetti, V. and L. Gilotte. (2007) "The impact of Carbon Capture and Storage on Overall Mitigation Policy", *Climate Policy* 7 (2007) 3–12.
  - Bosetti V., C. Carraro, M. Galeotti, E. Massetti and M. Tavoni, (2006), "WITCH: A World Induced Technical Change Hybrid Model", *The Energy Journal*, Special Issue. Hybrid Modeling of Energy-Environment Policies: Reconciling Bottom-up and Top-down, 13-38.
  - Bosetti, V. Galeotti, M., Lanza, A. (2006) "How Consistent are Alternative Short-Term Climate Policies with Long-Term Goals?" *Climate Policy*, Vol 6 (3), 295-312.
  - Bosetti V., C. Carraro, M. Galeotti. "The Dynamics of Carbon and Energy Intensity in a Model of Endogenous Technical Change" *The Energy Journal*, Endogenous Technological Change and the Economics of Atmospheric Stabilisation Special Issue (2006) 93-107.
  - Bosetti, V. Locatelli, G. "A Data Envelopment Analysis Approach To The Assessment Of Natural Parks' Economic Efficiency And Sustainability. The Case Of Italian National

Parks” Sustainable Development (2006) (in press) DOI: 10.1002/sd.288.

Bosetti, V. Messina, E. “Integrating Stochastic Programming and Decision Tree Techniques in Land Conversion Problems” *Annals of Operations Research* (2006) 142: 245-260

Bosetti, V. Lanza, A. Cassinelli, M. “Using Data Envelopment Analysis to Evaluate Environmentally Conscious Tourism Management” - Chapter 9; 252-268, in: Lanza, A., Markandya, A., Pigliaru, F., (eds). *The Economics of Tourism and Sustainable Development*, Edward Elgar Publishing (September 2005).

Bosetti, V. Conrad, J., Messina, E. “The Value of Flexibility: Preservation, Remediation, or Development for Ginostra?”. *Environmental Resource Economics* (2004) 29: 219-229.

Bosetti, V. Messina, E. “Uncertainty and Option Value in Land Allocation Problems” *Annals of Operations Research* (2003) 124: 165-181.

Pearce, D. W. Bosetti, V. “A Study Of Environmental Conflict: The Economic Value Of Grey Seals In South West England” *Biodiversity and Conservation* (2003) 12 (12): 2361-2392

Bosetti, V. Messina, E., Valente, P. “Optimisation Technologies and Environmental Applications” *IMA Journal of Management Mathematics* (2002) 13 (3): 167-185.

• Working papers and other publications

V. Bosetti, A. Golub, A. Markandya, E. Massetti, M. Tavoni “Abatement Cost Uncertainty and Policy Instrument Selection. A Dynamic Analysis”, Mimeo, 2007. This paper has been awarded the second prize for best paper at the 20th World Energy Congress, Rome.

Bosetti, V., C. Carraro, E. Massetti, and M. Tavoni (2007) “Optimal Energy Investment and R&D Strategies to Stabilise Greenhouse Gas Atmospheric Concentrations”, *Fondazione Eni Enrico Mattei, Working Paper N.95-2007*

Bosetti, V. Carraro, C., Massetti, E., Tavoni, M. “International Energy R&D Spillovers And The Economics Of Greenhouse Gas Atmospheric Stabilization”. Working Paper CEPR-DPSUB N.4703 and Working Paper 82, Milan: *Fondazione Eni Enrico Mattei*. 2007

Tavoni, M., Sohngen, B., Bosetti, V. “Forestry and the carbon market response to stabilize climate”. Working Paper 15. Milan: *Fondazione Eni Enrico Mattei*. 2007

Bosetti, V., Tavoni, M. “Uncertain R&D, Backstop Technology and GHGs Stabilization”. Working Paper 5. Milan: *Fondazione Eni Enrico Mattei*. 2007

Bosetti, V., Massetti, E., Tavoni, M. “The WITCH Model. Structure, Baseline, Solutions”. Working Paper 10. Milan: *Fondazione Eni Enrico Mattei*. 2007

Tomberlin, D., Bosetti, V. “An Iterative Finite Difference Approach to Option and Project Valuation” NOAA TECHNICAL MEMORANDUM NMFS, March 2006, NOAA-TM-NMFS-SWFSC-389

Bosetti, V. Cassinelli, M., Lanza, A. “Benchmarking In Tourism Destination, Keeping In Mind The Sustainable Paradigm” Working Paper 12. Milan: *Fondazione Eni Enrico Mattei*. 2006

Bosetti, V., Carraro, C., Galeotti, M. “Stabilisation Targets, Technical Change and the Macroeconomic Costs of Climate Change Control” Working Paper 2. Milan: *Fondazione Eni Enrico Mattei*. 2006

Bosetti, V., Drouet, L. “Accounting for Uncertainty Affecting Technical Change In An Economic-Climate Model”: FEEM Working Paper 147. Milan: *Fondazione Eni Enrico Mattei*. 2005 Submitted to *Environmental Resource Economics*

Bosetti, V., Gilotte, L. “Carbon Capture and Sequestration: How much does this Uncertain Option Affect Near-Term Policy Choices” FEEM Working Paper 86. Milan:

Fondazione Eni Enrico Mattei. 2005.

Bosetti, V., Buchner, B. "Using DEA to assess the Relative Efficiency of Different Climate Policy Portfolio" FEEM Working Paper 82. Milan: Fondazione Eni Enrico Mattei. 2005. Submitted to *Ecological Economics*

Bosetti V., C. Carraro, M. Galeotti. "The Dynamics of Carbon and Energy Intensity in a Model of Endogenous Technical Change" FEEM Working Paper 06. Milan: Fondazione Eni Enrico Mattei. 2005

Bosetti, V., Locatelli, G. "A Data Envelopment Analysis Approach to The Assessment Of Natural Parks' Economic Efficiency And Sustainability. The Case of Italian National Parks". FEEM Working Paper 63. Milan: Fondazione Eni Enrico Mattei. 2005

Tomberlin, D., Bosetti, V. "Participation in a Limited-Entry Fishery: An Options Approach" Presented to the NOAA Fisheries Economics Biennial Forum, New Orleans, LA. 2004. Awarded Best Paper prize for NOAA Fisheries.

Tomberlin, D., Bosetti, V. "Solving Real Options Models of Fisheries Investment When Salvage Value Is Difficult to Estimate" In: Proceedings of the 2004 IIFET Convention. Corvallis, OR: International Institute for Fisheries Economic

Bosetti, V., Galeotti, M., Lanza, A. "How Consistent are Alternative Short-Term Climate Policies with Long-Term Goals?" FEEM Working Paper 157. Milan: Fondazione Eni Enrico Mattei. 2004.

Bosetti, V., Tomberlin, D. "Real Options Analysis of Fishing Fleet Dynamics: A Test" FEEM Working Paper 102. Milan: Fondazione Eni Enrico Mattei. 2004

Bosetti, V., Lanza, A., Cassinelli, M. "Using Data Envelopment Analysis to Evaluate Environmentally Conscious Tourism Management". FEEM Working Paper 59. Milan: Fondazione Eni Enrico Mattei. 2004

Bosetti, V., Messina, E. "Quasi Option Value and Irreversible Choices" FEEM Working Paper 14. Milan: Fondazione Eni Enrico Mattei. 2001

Bosetti, V., Pearce, D.W. "A Study of Environmental Conflict". CSERGE Working Paper GEC 01-02. Norwich: University of East Anglia. 2001.

Bosetti, V. "Uno studio di un conflitto ambientale: il valore economico delle foche grigie della Cornovaglia" "Equilibri - Rivista per lo sviluppo sostenibile" 2/2000

Bosetti, V. "Microsimulazione e Road Pricing nella gestione del traffico urbano" "Equilibri - Rivista per lo sviluppo sostenibile" 3/1998

- Presentations and Seminars

"Frontiers in Economy-Climate Modelling: the FEEM - WITCH Model"  
1st FEEM Conference on the Economics of Sustainable Development.  
Milano, 25-26 January 2007

"Witch: World Induced Technical Change Hybrid Model"  
Invited seminar at CORE.  
Louvain-la-Neuve, 19 October 2006

- 1) "Witch: World Induced Technical Change Hybrid Model"
- 2) "Participation In A Limited-Entry Fishery: An Options Approach"
- 3) "Benchmarking In Tourism Destination, Keeping In Mind The Sustainable Paradigm"  
Environmental and Resource Economists 3rd World Congress  
Kyoto, Japan 3 - 7 July 2006

"Stabilisation targets, technical change and the macroeconomic costs of climate change control"  
The International Environmetrics Society (TIES)

Kalmar, Sweden 18-22 June 2006

“Technical Change and GHG Emission Stabilisation”

Seminar at NOAA October

September 2005, Santa Cruz California

“Technical Change and GHG Emission Stabilisation”

A Bridge to the Future: High-Level Trans-Atlantic Dialogue on Climate Change

Broadening Participation, Reducing Costs

September 20-22, 2005, Washington

“Using Data Envelopment Analysis to Assess the Relative Efficiency of Different Climate Policies Portfolios”

3rd Meeting Of The Climate Policy Network

14-15 September 2005, Chia, Sardegna, Italy

“Using Data Envelopment Analysis to Assess the Relative Efficiency of Different Climate Policies Portfolios”

14th Annual Meeting of the European Association of Environmental and Resource Economists

23<sup>rd</sup>-26<sup>th</sup> June 2005, Bremen

“The Dynamics of Carbon and Energy Intensity in a Model of Endogenous Technological Change”

6th IAEE European Conference - Modeling in Energy Economics and Policy

2-3 September 2004, Zurich

1) “The Dynamics of Carbon and Energy Intensity in a Model of Endogenous Technical Change”

2) “How Consistent are Alternative Short-term Climate Policies with Long-term Goals?”

Annual Meeting of the International Energy Workshop jointly organized by EMF/IEA/IIASA

22-24 June 2004, Paris

“Using Data Envelopment Analysis to Evaluate Environmental Consciousness Management”

International Conference on Tourism and Sustainable Economic Development Macro and Micro Economic Issues jointly organized by CRENoS (Università di Cagliari e Sassari, Italy) and Fondazione Eni Enrico Mattei, Italy, and supported by the World Bank

19-20 September 2003, Chia Laguna Hotel, Sardinia, Italy

“The value of Flexibility”

2002 World Congress of Environmental and Resource Economists

June 24 - 27 2002, Monterey, California

1) “The value of Flexibility”

2) “Stochastic Programming Approach to Gradual Conversion Problems”

APMOD 2002 Applied Mathematical Programming and Modelling

University of Milano-Bicocca

“Valuing development options”

CRENoS Conference on "Economic Evolution of Cultural Heritage"

Invited Speaker

19-20 October 2001, Cagliari

1) "Integrating Stochastic Programming and Decision Tree Techniques in Land Conversion Problems"

2) "The value of Flexibility"

Associazione Italiana Ricerca Operativa 2001

6-8 September 2001, Cagliari

"Investment decisions for land allocation problems"

9th International Conference on Stochastic Programming.

Humboldt-Universität zu Berlin

August 25 - 31, 2001, Berlin

"Quasi Option Value and Irreversible Choices"

AIRO 2000, Università degli Studi di Milano Bicocca.

September 2000, Milano

"A study of environmental conflict: the Economic Value of Grey Seals in South West England"

Seminario presso Università di Nuoro, Seminari di Economia Ambientale

19 May 2000, Nuoro

**PERSONAL SKILLS  
AND COMPETENCES**

MOTHER TONGUE **ITALIAN**

OTHER LANGUAGES

- Reading skills Excellent
- Writing skills Excellent
- Verbal skills Good

**ENGLISH**

Excellent

Excellent

Good

**PORTOGUESE**

- Reading skills Good

Good

- Writing skills Basic

Basic

- Verbal skills Good

Good

COMPUTER SKILLS WINDOWS PACKAGE

MATLAB

OPTIMIZATION PLATFORMS: MPL, GAMS

DATA ANALYSIS: STATA, FRONTIER ANALYSIS

WEB DESIGNING: FRONT PAGE

PROGRAMMING IN C

HOBBIES PLAYING CAPOEIRA (A BRAZILIAN MARTIAL ART), SINGING AND READING