

Name, Surname: Sergio Giaccaria

Date of diploma: 2005 (Ph.D in Real Estate and Economic Valuation, Polytechnic University of Turin)

Current position: Research Fellow at the Department of Economics, University of Turin

Motivation letter

I apply to participate to the ERSA summerschool mainly for three reasons:

- The topic covered are linked with my past research activities: as explained in my CV I was involved from 2005 to 2007 in a research project funded by the Piedmont Region in order to develop a toolbox for the financial and economic assessment of studies applied to infrastructure . Output of that work have been technical and research reports that have not been adequately followed by the publication of academic papers. The project implied also the construction of large geo-referenced datasets of technical, socioeconomic and environmental variables, and the participation to the summerschool may offer further perspective and ideas about future academic uses of these data.
- Furthermore, the summerschool offers good linkages to my future plans. I am going to be in a project funded by the University of Turin and Collegio Carlo Alberto, aimed to simulate the interregional effects of fiscal environmental policies, through the use of indicators of CO2 consumption (e.g. the carbon footprint). Energy-economy-environment relationships are going to be modelled in a Computable General Equilibrium framework, in order to obtain an assessment of various energy policy instruments in a multiregional Mediterranean scenario. I am likely to have a role of assistant researcher in the first year of the project (construction of social accounting matrix and input output tables). I am aware that my knowledge of applied spatial CGE methods has to be improved in order to continue my work in the intermediate and final phase of the project (second and third year). The summerschool will offer as well good tests and discussion, and is a relevant opportunity to meet other researcher working on similar topics.
- . I am motivated to *repeat* the experience, as I attended to the ERSA Summerschool in Pecs (Hungary) in 2008. That course allowed to enrich my skills in presenting, grew my interest in spatial approaches for applied economics, that I used in my late papers. The structure of ERSA courses, mixing theoretical lectures, technical sessions and presentation have been a fruitful stimulus.

Sergio Giaccaria – Curriculum vitae

Email: sergio.giaccaria@unito.it

Education:

PhD in Real Estate and Economic Valuations, Polytechnic University of Turin, Italy (2005). Title of dissertation: "Stated preferences analysis for the evaluation of environmental and cultural heritage: operating limits and perspectives".

First degree in Architecture, Polytechnic University of Turin, Italy (2000).

Short courses:

Summer school in Spatial Econometrics (ERSA/Prepare, Pecs, July, 2008):

- Spatial Econometrics, prof. Luc Anselin
- Spatial CGE Modelling, prof. Marc Thissen

Summer school in Econometrics (CIDE, Bertinoro, July, 2006):

- The Econometrics of Asset Pricing, prof. René Garcia
- Volatility estimation and modelling, prof. Nour Meddahi
- Economics of Inequality, prof. Antony B. Atkinson, prof. Stephen P. Jenkins

Quantitative methods for public policy analysis, prof. Alberto Martini, Pracatinat, (august 21-31, 2006)

Valuation Techniques for Environmental Resources, prof. Riccardo Scarpa (University of Turin, April 5-21, 2006),

Modelling Non-market Valuation Data, prof. Anna Alberini (IUAV, Venice, May 23-26, 2005),.

Summer school in Real estate on Real Estate Appraisal, SSREA, (19-22 luglio, 2004).

Workshop, Methods for environment and landscape valuation, prof. Riccardo Scarpa. (IUAV, Venice, September 2-4, 2003).

Languages:

Italian
English
French

Present positions:

Research fellow, Department of Economics "Cognetti de Martiis", University of Turin, Italy.

Teaching experiences:

Environmental economics (advanced course), Faculty of Economics, University of Turin – module leader (2009).

Public Finance, Faculty of Political Science, University of Turin – module leader (2009).

Valuation techniques for environmental projects, Faculty of Political Sciences, University of Turin – module leader (2009).

Economics of environment and sustainable development, Faculty of Political Sciences, University of Turin – module leader (2008).

Methods for the economic valuation of environment, Faculty of Political Sciences, University of Turin – module leader (2006-2008).

Appraisal of public investments (5th year undergraduate students, Università del Piemonte Orientale) – module leader (2005).

Environmental economics (5th year undergraduate students, Polytechnic University of Turin) – module leader (2005-2006).

Microeconomics, Real estate appraisal, (1-2nd year undergraduate students, Polytechnic University of Turin) (2003-2004).

Short seminars:

Lectures on Support to decision making through Cost-benefit Analysis, ASVAPP, “Corso di Analisi e Valutazione delle Politiche Regionali”.

Lectures on *Discrete choice models* at Universitat Politècnica de Catalunya, “Master Oficial en gestió i Valoración Urbana”, (2009)

Lectures on *Energy Policy in UE*, Master course of "Diritto, istituzioni e politiche dell'UE", University Institute of European Studies, (2009)

Lectures of *Environmental Economics*, master for graduate students: Tecniche per la Progettazione e Valutazione ambientale, COREP, Polytechnic University of Turin, (2008-2009).

Environmental economics, Faculty of Economics and Commerce, University of Turin, (2006-2008).

Lectures on *Discrete choice models* in PhD courses at Polytechnic University of Turin (2007).

Economics of environment and sustainable development (Faculty of Political Sciences, University of Turin, 2006-2008).

Economic evaluation of natural resources, (module of Rural development and natural resources), Venice International University, San Servolo Island, Italy.

Exercise modules for courses of Microeconomics and Real Estate Appraisal Faculty of Architecture, Polytechnic University of Turin, 2002-2004).

Research Interests:

Environmental and natural resource economics.

Urban economics.

Spatial issues and GIS for applied economics.

Research projects:

Sustainability of the socio-economic system in Piedmont: Material and energy flows, impacts of infrastructures and energy supply., coordinator, Department of Economics, University of Turin, (2007-2008-2009).

Housing disease in Turin. A pilot study for the assessment of housing affordability indexes. coordinator, Polytechnic University of Turin, (2007).

Implementing a toolkit for the valuation of infrastructures externalities, as a support for decision-making, researcher, Department of Economics, University of Turin, (2005-2006).

Modelling household's residential choices, researcher, Polytechnic University of Turin, (2004-2005).

Land Reform And Land Market Development In The Ukraine, researcher, TEMPUS-TACIS project at Kherson State University, Ukraine, (2004).

Honours, fellowships, etc.:

Expert (Cultore della materia) in Environmental Economics (2007-2008).

Expert (Cultore dell materia) in Real Estate Appraisal, Polytechnic of Turin , Italy (2003-2004).

Three-years Post-graduate Research Fellowship, Polytechnic University of Turin, Italy (2002-2004).

Working papers:

Giaccaria S., Bravi M., Talarico A., (2008), Housing affordability and tenure choices: an empirical investigation, working paper series of the Department of Economics, University of Turin, QR 11/08.

Bagliani M., Bravo G., Dalmazzone S., Giaccaria S., Golia S., (2008) Economic growth and environmental pressure: a worldwide panel analysis, working paper series of the Department of Economics, University of Turin, QR 10/08.

Giaccaria S., Frontuto V., (2007) GIS and Geographically Weighted Regression in stated preferences analysis of the externalities produced by linear infrastructures, working paper series of the Department of Economics, University of Turin, QR 10/07.

Academic Papers presented at conferences:

Giaccaria S., The external costs of linear infrastructure: stated choiches and GWR tests for spatial stationarity, presented at the 49th European Congress of the Regional Science Association International, Łódź, Poland. 25th – 29th August 2009.

Giaccaria S., The treasure hidden in the forest: forest: a spatial approach for the economic assessment of forests benefits , presented at the 49th European Congress of the Regional Science Association International, Łódź, Poland. 25th – 29th August 2009.

Giaccaria S., The footprint of growth , presented at European Regional Science Association/PREPARE Summer Institute. Pécs, Hungary. July 2008.

Giaccaria S., Bravi M., Housing affordability and tenure choices: an empirical investigation, presented at the 15th Conference of European Real Estate Society in Association with the International Real Estate Society, Krakow, June 18-21st 2008.

Giaccaria S., Frontuto V., GIS and Geographically Weighted Regression in stated preferences analysis of the externalities produced by linear infrastructures, presented at the 15th annual Conference of the European Association of Environmental and Resource Economists (EAERE 2007), Thessaloniki, June 27th.

Giaccaria S., Bravi M., Forecasting Consumer Choices: Conjoint Analysis (CA) in Real Estate Market Research, presented at the Conference of European Real Estate Society in Association with the International Real Estate Society, Dublin, June 15-18th 2005.

Giaccaria S., Frontuto V., Implementing a toolkit for the valuation of infrastructures externalities as a support for decision-making, presented at the 3rd National conference of NUVAL, Rete dei Nuclei di Valutazione e Verifica degli Investimenti Pubblici (Network of groups for the assessment of public investments), Bologna, February 1st 2006.

Research reports:

Colombino U., Dalmazzone S., Frontuto V., Giaccaria S., An integrated approach for the valuation of infrastructure's projects: economic and biophysical indicators. Biocapacity, biodiversity and ecosystem fragmentation. Department of Economics, University of Turin, 2007.

Bravi M., Giaccaria S., Talarico A., Housing disease in Turin. A pilot study for the assessment of housing affordability indexes. SITI, Polytechnic University of Turin, 2007.

Colombino U., Dalmazzone S., Frontuto V., Giaccaria S., A choice modelling study for the assessment of impacts of municipal waste disposal systems. Department of Economics, University of Turin, 2007.

Colombino U., Dalmazzone S., Frontuto V., Giaccaria S., Valuation of the impacts of High Voltage Power Lines, Department of Economics, University of Turin, 2006.

Colombino U., Dalmazzone S., Frontuto V., Giaccaria S., Implementing a toolkit for the valuation of infrastructures externalities, as a support for decision-making, Department of Economics, University of Turin, 2005.

Published papers:

Bravi M., Giaccaria S., Talarico A., Affitto o proprietà? Un modello di scelta residenziale urbana, "Italian Journal of Regional Science", forthcoming

Bravi M., Giaccaria S., Mobilità urbana e scelte residenziali: un'analisi economica, "Archivio di studi urbani e regionali", n. 94, 2009

Dalmazzone S., Giaccaria S., Frontuto V., Economics and policy of biodiversity loss, "Environmental training community newsletter", n.4, 2007.

Bravi M., Giaccaria S., La Conjoint Analysis (CA) nelle valutazioni immobiliari, "Aestimum" n.48, 2006

Giaccaria S., Scenari ipotetici e mezzi di pagamento nel metodo della valutazione contingente: il caso del Parco e Castello di Racconigi, in Lombardi P., "Temi di ricerca nel campo dell'estimo e della valutazione", quaderno CESET n.7, 2002.

Giaccaria S., Sirchia G. Variabili strategiche nella differenziazione dei prezzi degli immobili: una ipotesi di lavoro, in Roscelli R. (a cura di), "Mercato immobiliare, innovazione e gestione dei catasti urbani, quaderno", quaderno CESET n.8, 2002.

Giaccaria S., (2007), Valutare gli impatti ambientali delle infrastrutture: la rete dei grandi elettrodotti in Piemonte, in "Informa IRES", anno XVIII, n.1

Book chapters:

Bravi M., Giaccaria S., Scelte residenziali, mercato immobiliare e offerta di beni pubblici locali (BPL): una prospettiva metodologica, in Mollica E. (a cura di) "Sistemi economici locali e mercati immobiliari. La misura degli effetti originati da interventi di trasformazione urbana", Gangemi, 2007.

Giaccaria S., Il parco e il castello di Racconigi: stima della disponibilità a pagare per alternative progettuali, in Sirchia G. (a cura di), La valutazione economica dei beni culturali, Carocci, Roma, 2000.

Career plans:

I applied for a permanent position of lecturer and research assistant at the University of Turin. Environmental and land economics are my topics, and I am consolidating teaching activities on the field, and doing research. As researcher I will take part to two new projects starting from the end of 2010, while my actual is going to be ended in August.

PhD Supervisor

Prof. Gemma SIRCHIA, Polytechnic University of Turin

Prof. Marina BRAVI, Polytechnic University of Turin (marina.bravi@polito.it)

Researcher for recommendation letters

Prof. Marina BRAVI, Polytechnic University of Turin (marina.bravi@polito.it)

Prof. Silvana DALMAZZONE, University of Turin (silvana.dalmazzone@unito.it)

Title and abstract of the intended presentation

Socio-economic drivers of biological invasions. A worldwide, bio-geographical analysis of trade flows and local environmental quality

Abstract

The introduction of harmful non-indigenous species has long been acknowledged to depend both on the openness to international trade flows (propagule pressure), and on the concentration of local economic activities determining the health of the receiving ecosystem (anthropogenic disturbance). We estimate the relative weight of the socio-economic drivers of biological invasions, for 115 countries in all continents and for invasive species of all taxa. Our results confirm the theoretical prior of trade, agricultural imports in primis, as an important driver of biological invasions, but also shed more light on the factors of disturbance to local ecosystems that emerge as playing an even more important role. We then develop an analytical model linking introductions of invasive species to import volumes disaggregated by country of origin, and weighted by bioclimatic similarity between source and destination country of the trade flow. The results allow us to identify the relative risk of biological invasions entailed by different directions of trade among 134 countries aggregated in geographic regions.