

M. Federico ANTONIAZZI

Diploma

Master of Science in Transportation System engineering in Italy (2007)

Current status and affiliation

Doctoral student in Transport economic science and Transport engineering at the Lyon 2 University and Sapienza University of Rome

Motivation letter

I would like to participate to the ERSA summer school because I think that the topics of the 2010 courses are very relevant for my PhD thesis, in particular the economic and financial assessment of transport infrastructure in regional context.

Scientific CV

Education

- 2010/2011 Student at the National Administration School (ENA), Strasbourg, France
- From 2007 Doctoral student in Transport economic science and Transport engineering at the Lyon 2 University and Sapienza University of Rome
- 2007 Master of Science in Transportation System engineering at the Sapienza University of Rome *cum laude*
- 2006/2007 Erasmus program at the Ecole Nationale des Travaux Publics de l'Etat, France.
- 2005 Bachelor in Civil Engineering at the University of Padova

Experiences

- 02-05/2010 ERA, European Railway Agency – Economic Evaluation unit, Valenciennes, France
Internship
- From 2008 RFF railway infrastructure manager – Economic Service, Paris, France
Researcher
- 2007/2008 Turin-Lyon High-speed Railway Line head Office, Rome, Italy
Transportation policy advisor
- 2007/2008 Sapienza University of Rome – Transportation Institute, Rome, Italy
Graduate assistant
- 2006 RFI, railway infrastructure manager, Rome, Italy
Internship

Main publications

Antoniazzi F. «*La gestion des chantiers de transbordement rail-route en France : une problématique de rationalisation et de gouvernance* » accepted by the revue *Transports*.

Antoniazzi F., Corazza M.V., Piccioni C., Musso A. “*Sustainable Mobility Planning and Management: the Rimini case study*” – presented at the POLIS Conference 2008 “Public meets Private - Towards a common agenda for mobility in cities and regions” Barcelona - November 25th, 2008

Antoniazzi F. “*La localizzazione dei terminali intermodali - Il caso della Regione Rhône-Alpes e della Regione Lombardia*” in Book n°4 of the Observatory for the Turin-Lyon High-speed Railway Line, Press of the Italian Ministry Council.

Awards and grants

2009 CIFI, Italian Railway Engineering Association, award for the best master’s thesis in the field of intermodal transport

2008/2011 ANRT, National Industrial Research Association (France) grant for PhD work in collaboration with RFF, French railway infrastructure manager

2007/2009 Sapienza University of Rome grant for PhD students

Skills

Language: Italian, English, French and basic Russian

Computer: Office package, transportation GIS planning, programming skills (Pascal, VBA)

Previous research projects description

Traffic flows and land-use analysis for the city of Rimini (2007/2008)

This research was developed during the first year of doctoral study at the Sapienza University of Rome.

A four-step based model in order to estimate passengers’ traffic flows was implemented for the city council of Rimini in Italy.

Modifications of interaction between land use and transportation have been also estimated by the model.

Optimal location of intermodal freight terminals in Lyon region (2007)

This research was part of the curriculum of Master of Science in Transportation System Engineering at the Sapienza University of Rome, during the Erasmus period in Laboratory of Transportation Economics in Lyon.

An optimal location model was developed to evaluate the best choice for a freight intermodal terminal in the Lyon region.

Estimation of intermodal freight terminals capacity (2006)

This research was done in collaboration with RFI (Italian railways infrastructure manager) to analyse the intermodal freight terminals in Milan region.

A model to estimate intermodal freight terminal capacity was developed and tested on the case study.

Current research project description

My current research work consists in a PhD thesis to obtain the title of doctor in Economic Science at the University of Lyon and in Infrastructures and Transports Engineering at the Sapienza University of Rome.

The goal of the research work is to analyse freight demand estimation models and to determine an appropriate approach to evaluate large infrastructure projects, such as railways corridors.

Regional economics models, logistic organization analysis and transportation planning science are linked in this research work in a multidisciplinary approach.

Career plans

Researcher in public institutions or universities

Doctoral / PhD supervisor

Prof. Alain Bonnafous

Laboratoire d'Economie des Transports

Alain.Bonnafous@let.ish-lyon.cnrs.fr

Researchers who are willing to write a letter of recommendation

Dr Torben Holvad

Economic advisor at the European Railway Agency

Senior Research Associate, TSU Oxford

torben.holvad@era.europa.eu

Dr Riccardo Crescenzi

Assistant Professor LSE

r.crescenzi@lse.ac.uk

Intended presentation

Railway infrastructure pricing and the project financing in the railway sector

Although the principle of marginal cost pricing is promoted in UE directives, the allowance for mark-ups to achieve full cost recovery implies deviation from this principle.

The reason is that infrastructure managers need to finance the renovation of the railway network and its extension under budget constraints from public sector.

The presentation aims to provide an overview of different principles of charging in Europe (marginal costs, Ramsey-Boiteaux, congestion charge) in the railway sector and to analyse the link between infrastructure pricing and project financing in the case of private-public partnership (PPP).