

CURRICULUM VITAE

DANILO LIUZZI

Personal information

First name / Surname **Daniilo Liuzzi**
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Nationality Italian
Date of birth 12/07/77
Gender Male

Work experience

- Current Position** Phd Student at Lombardy Advanced School of Economic Research, LASER, Milan, Italy
- October 2012 - January 2013** Teaching Assistant of the Course " Theories and Techniques of Optimization"
Faculty of Computer Science, Free University of Bozen, Italy
- September 2012** Teaching Assistant of the Course " Mathematics for Economics and Finance "
Department of Economics, Management and Quantitative methods,
Universita' degli Studi di Milano, Milan, Italy
- Academic year 2011-2012** Mathematics and Physics Teacher in the following schools:
Academic year 2010-2011 - Country Language School, Piazza Soncino, 31 Cusago (Mi) Tel. +39 02 90 39 08 76
- Londoneye School, Via V. Alfieri, 3 Settimo Milanese (MI) Tel. +39 02 33 51 24 33
- Academic year 2009-2010** Mathematics and Physics Teacher in the following high school:
- Istituto Vittorio Alfieri Via Milano, 68 Magenta (Mi) +39 02 97297728
(Technical high school, "Istituto per Geometri")
- Country Language School, Piazza Soncino, 31 Cusago (Mi) Tel. +39 02 90 39 08 76
- Academic year 2008-2009** Mathematics and Physics Teacher in the following high school:
- Istituto Vittorio Alfieri Via Milano, 68 Magenta (Mi) +39 02 97297728
(Technical high school, "Istituto per Geometri")

Education and training

- July 2012 **Master degree in Economics and Political Science at Universita' Statale di Milano, EPS, Milan**
Final Mark: 110/110 CUM LAUDE
Thesis : "Transitional dynamics in a spatial economic growth model with human and physical capital accumulation"
- September 2010 Enrolment in EPS (Economics and Political Science)

ANNEXES : LIST OF ATTENDED EPS COURSES , WITH MARKS*
BRIEF DESCRIPTION OF THE THESIS**
- November 2005 **Successfully passed the national qualification test for being a professional Engineer**
- Febraury 2005 **Master Degree in Electronic Engineering at "Politecnico di Milano", Milan**
Final Mark: 83/100
(One cycle system, five years degree)
with thesis : " Circuitual analysis of bridge-type connected fotovoltaic cells"

ANNEXES : LIST OF COURSES OF "ELECTRONIC ENGINEERING" WITH MARKS***
- July 1996 **High School Degree at "Liceo Classico Salvatore Quasimodo" in Magenta (MI)**
Final Mark 51/60

Language competences

Mother tongue **Italian mother tongue**
Other language **English**

EPS, Economics and Political Science University degree awarded in English;

Toefl Results : 100/120

Reading	Listening	Writing	Speaking
29	27	22	22

Computer skills and competences

As a student in economics, I acquired an adequate knowledge of statistical software as GRETL and word processor as LATEX; as an electronic engineer, C programming languages, SPICE circuit simulator, MATLAB; as a PV systems designer AUTOCAD and various other softwares to design electric grids;

*LIST OF ATTENDED EPS COURSES, WITH MARKS

MATHEMATICS	13/12/10	30	9 CFU
MICROECONOMICS	08/04/11	30 CUM LAUDE	9 CFU
ADVANCED MATHEMATICS	15/04/11	27	3 CFU
QUANTITATIVE METHODS	16/05/11	30 CUM LAUDE	9 CFU
MACROECONOMICS	29/06/11	30 CUM LAUDE	9 CFU
GAME THEORY	15/09/11	28	6 CFU
TOPICS IN ECONOMIC ANALYSIS AND POLICY	11/11/11	30	9 CFU
MARKETS, FIRMS AND ORGANIZATIONS	18/11/11	27	6 CFU
ADVANCED ECONOMETRICS	13/12/11	30 CUM LAUDE	6 CFU
INDUSTRIAL ORGANIZATION	13/01/12	28	6 CFU
PHILOSOPHY, POLITICS AND WELFARE	29/03/12	28	12 CFU
POSITIVE POLITICAL THEORY	30/04/12	29	6 CFU
THEORIES OF REGULATION	07/06/12	25	6 CFU

**BRIEF DESCRIPTION OF THESIS in ECONOMICS AND POLITICAL SCIENCE

My thesis was an exercise in modelling economic growth. More precisely it was a first step to extend the "Uzawa-Lucas" model of economic growth to the spatial dimension.

During the last decade there has been an increasing interest in improving the well-known Solow and Ramsey models of economic growth to the spatial dimensions, in order to consider the diffusion processes of the capital, and not only its accumulation in the temporal dimension: on the one hand we can accumulate capital along the time line, on the other we can consider our position in the "city" and move our capital where better conditions occur. In other words, this stream of research aims to bridge the gap between growth theory and new economic geography.

Focusing on the Uzawa-Lucas model, the capital we deal with is both physical and human and the latter can be produced only by other human capital: this is a two sector model that tries to underline the importance of the human capital in the economic performance of a country. The horizon of this model is the time dimension: an hypothetical social planner – alias dicitur "perfect competition" - tries to maximize the utility of its citizens controlling some "state" variables that change over time.

In my exercise I included the spatial variable in the above framework, in order to take into account the spatial diffusion processes involving both types of capital. Technically the problem shifts from an ordinary differential equations system to a partial differential equations system. The expansion of the model to the multidimensional space (namely two dimensions) is not cost free: the social planner maximizing problem becomes extremely more complex and cannot be handled properly in my dissertation (Pontryagin conditions imperant). Because of these difficulties my approach revolved around the solowian hypothesis of constant saving rate, that is no social planner optimization problem. This can be considered a first step toward the more general problem.

*****LIST OF ELECTRONICS ENGINEERING COURSES, WITH MARKS**

MATHEMATICAL ANALYSIS I	26/02/98	22	10 CFU
PHYSICS I	04/09/98	19	10 CFU
GEOMETRY	04/12/98	26	10 CFU
MATHEMATICAL ANALYSIS II	02/03/99	30	10 CFU
FUNDAMENTALS OF COMPUTER SCIENCE I	20/06/00	30 CUM LAUDE	10 CFU
CHEMISTRY	27/06/00	30	10 CFU
PHYSICS II	26/01/01	28	10 CFU
ELECTRICAL ENGINEERING	18/09/01	28	10 CFU
PROBABILITY THEORY, STATISTICS AND STOCHASTIC PROCESSES	25/01/02	25	10 CFU
MATHEMATICAL ANALYSIS III	07/02/02	28	10 CFU
FUNDAMENTALS OF AUTOMATIC CONTROL	01/03/02	29	10 CFU
FUNDAMENTALS OF COMPUTER SCIENCE II	25/06/02	18	10 CFU
SIGNAL AND SYSTEMS	24/07/02	25	10 CFU
PHYSICS III	19/09/02	27	10 CFU
QUANTUM ELECTRONICS	22/01/03	23	10 CFU
ELECTRONICS I	18/02/03	24	10 CFU
OPTICS	23/06/03	29	10 CFU
ELECTROMAGNETIC FIELDS	07/07/03	21	10 CFU
BUSINESS ECONOMICS AND ORGANIZATION	04/09/03	27	10 CFU
THERMAL-FLUIDS ENGINEERING	18/09/03	24	10 CFU
ELECTRONICS II	28/11/03	20	10 CFU
ELECTRICAL COMMUNICATIONS	18/02/04	23	10 CFU
MODEL IDENTIFICATION AND DATA ANALYSIS	19/02/04	23	10 CFU
ELECTRONICS OF DIGITAL SYSTEMS	04/03/04	21	10 CFU
ELECTRONIC DEVICES	02/07/04	23	10 CFU
ELECTRICAL NETWORK THEORY	20/07/04	22	10 CFU
ELECTRICAL MACHINES (AND ELECTRICAL DRIVES)	10/09/04	20	10 CFU
MICROELECTRONICS	26/11/04	25	10 CFU
OPTOELECTRONICS	07/02/05	18	10 CFU

Other Work experiences

April 2006 July 2008 Elletek Solare Srl di Danilo Liuzzi, Corbetta (MI)

Sector Photovoltaic Systems, Air conditioning

Main Activities Managing Director, Technical Director

April 2005 March 2006 Stage at Studio Tecnico Calligara di Ing. Stefano Calligara, Gallarate (VA)

Sector Electric Systems

Occupational Apprentice in PV systems designing and electric systems in general.