

# Curriculum Vitae

## Andrea Pellegrini

PhD candidate in Economics, Università della Svizzera italiana (Lugano, Switzerland)

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### PERSONAL DETAILS

Date of birth: 6 May 1988

Nationality: Italian

Residence: Via Clemente Maraini 15, 6900, Lugano, Switzerland

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### RESEARCH INTERESTS

Travel Demand Modelling, Transportation Planning, Choice Modelling and Econometrics,  
Travel Behavior Analysis, Time series

### EDUCATION

01/2014 - present: PhD candidate in Economics, Institute for Economic Research (IRE), Università della Svizzera italiana (USI), Lugano, Switzerland

Supervisor: Prof. Dr. Rico Maggi

09/2018 – 11/2018 Visiting PhD Student, Centre for infrastructure, Sustainable Transportation and Urban Planning, Department of Civil Engineering, Indian Institute of Science (IISc), Bengaluru, Karnataka, India - Short visit

02/2018 – 03/2018 Visiting PhD Student, Centre for infrastructure, Sustainable Transportation and Urban Planning, Department of Civil Engineering, Indian Institute of Science (IISc) Bengaluru, Karnataka, India - Short visit

02/2013 - 06/2013: Erasmus Programme in transport economics, Vrije Universiteit Business School, Amsterdam, The Netherlands

10/2011 - 07/2013: Master of Science in Statistics, University of Bologna, Italy

Supervisor: Prof. Dr. Miglio

Dissertation: Impact of temperature on mortality: A survival analysis approach

Final grade: 110/110 cum laude

10/2007 - 11/2010: Bachelor of Science in Statistics, University of Milano Bicocca, Italy

Supervisor: Prof. Dr. Mezzanica

Dissertation: Evolution of business intelligence information system: Case study on Oracle Industry

### PROFESSIONAL EXPERIENCE

10/2014 - present: Lecturer in Statistics for tourism, Fondazione Campus, University of Pisa, Italy

*Main duties:* giving lectures on statistics using excel

11/2013 - present: Researcher at the Tourism Observatory (O-Tur), Institute for Economic Research (IRE), USI, Lugano, Switzerland

*Main duties:* analyzing tourism demand in the Ticino Canton and forecasting the long run flows of tourists overnight stays by applying SARIMA model

12/2010 - 05/2011: Internship in Statistics, County of Milan, Milan, Italy

*Main duties:* collecting data on public transport with the aim of providing statistics for public policies.

10/2009 - 12/2009: Oracle Italia, Milan, Italy

*Main duties:* analyzing sales process of Oracle's products

## **REFEREE AND EDITORIAL SERVICE**

Referee for: Journal of Choice Modelling

## **DOCTORAL COURSES**

07/2017: Advanced Choice Modelling course. Prof. Hess, Dr. Dekker. University of Leeds. 2 ETCS

07/2015: Quantitative Methods for Public Policy Evaluation. Prof. Litsching. University Pompeu Fabra. 1.5 ECTS

07/2015: Dynamic and Non-linear Panel Data Models. Prof. Martin. University Pompeu Fabra. 1.5 ECTS

07/2015: Econometrics of Cross-section Data with Applications. Prof. Garcia. University Pompeu Fabra. 1.5 ECTS

06/2015: Health Economics and Policy. Prof. Gagliardini, Prof. Greene. USI. 3 ECTS

06/2015: Summer School on Transportation Economics. Prof. Basso, Prof. Brueckner, Prof. De Palma, Prof. Fosgerau, Prof. Lindsey, Prof. Small, Prof. Van Ommeren, Prof. Verhoef, Prof. West. Institute of Transport Economics. 3 ECTS

06/2015: Time Series Analysis. Prof. Gagliardini, Prof. Trojani. USI. 3 ECTS

03/2015: Discrete Choice Analysis: Predicting Demand and Market Shares. Prof. Bierlaire, Prof. Ben Akiva. École polytechnique fédérale de Lausanne. 4 ECTS

01/2015: Stata Econometrics Winter School. Porto Business School. 2.5 ECTS

12/2014: Forecasting and Macroeconomic Modelling using EViews. Prof. Holly. Cass Business School. 1.8 ETCS

09/2014: Topics in Microeconometrics with Applications to Energy and Environmental Economics. Prof. Manera, Prof. Chizzolini, Prof. Galeotti. Centro Interuniversitario di Econometria (CIDE) and University of Palermo. 4 ECTS

05/2014: Microeconomics. Prof Femminis. Catholic University of the Sacred Heart. 7 ECTS

01/2014: Financial Econometrics. Prof. Gagliardini. USI. 3 ETCS

## **LANGUAGE SKILLS**

Italian	Mother tongue
English	C1
Spanish	B1

## **COMPUTER KNOWLEDGE**

Proficient:	Microsoft Office, Stata, R
Intermediate:	Biogeme, Python Biogeme, SPSS, EViews, Latex
Basic:	Matlab, SAS

## **SKILLS AND CHARACTERISTICS**

Comfortable working in international and intercultural teams  
Ability to work to targets  
Good organizational skills

## **Major scientific achievements**

The aim of my dissertation, consisting of three papers, is to investigate the determinants of individuals' discrete-continuous decisions in a setting of interest where these decisions are interrelated. In my first paper, I analyze the interconnection between mode choice and length of stay in the context of domestic trip in Switzerland, developing a single discrete-continuous choice model. To my knowledge, this is perhaps the first attempt in the tourism literature to model simultaneously these decisions. In my second paper, I explore tourists' travel expenditure behavior and propose the joint adoption of two microeconomic approaches, namely the Stochastic Frontier (SF) and the Multiple Discrete Continuous Extreme Value model (MDCEV). The SF approach is employed in order to define an individual perceived expenditure limit specific to the trip taken into consideration: after accounting for total expenditure, socio-demographic characteristics and trip-related variables, I determine the latent consumption frontier for each individual in the sample. The MDCEV allows to simultaneously assess two expenditure decisions, namely the decision to allocate the budget to several non-mutually exclusive expenditure categories and the decision concerning the amount to allocate for each category. This is the first application of a joint SF-MDCEV model in the framework of tourism studies. In my third paper, I formulate a multiple discrete continuous probit (MDCP) model that can simultaneously accommodate (a) complementarity and rich substitution effects in consumption, and (b) multiple constraints (time constraint as well as money constraint) integrated into one single economic constraint. The vast majority of multiple discrete continuous frameworks employs additively separable utility functions, preventing the econometric frameworks from capturing complementarity and substitution patterns. Further, such frameworks assume that consumers maximize utility subject to a single constraint. Nevertheless, individuals' decisions may be affected by various constraints, such as time availability, money availability and space availability. Hence, it is of crucial importance to develop empirical frameworks that simultaneously shape multiple constraints along with complementarity and substitution patterns to better understand consumption decisions. This is perhaps the first attempt in the discrete choice literature to model multiple constraints and complementarity and substitution patterns in a unique empirical setting.