

Antonello Loddo

CURRICULUM VITAE

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Education

- **University of Missouri-Columbia** Columbia, MO
Ph.D. in Statistics, expected graduation: June 2006
Dissertation title: “*Bayesian Estimation and Model Selection of Multivariate Stochastic Volatility and Dynamic Models*”
Dissertation Advisor: Prof. *Dongchu Sun*
- **University of Cagliari** Cagliari, Italy
Laurea *cum summa laude* in Economics, 2000.
Thesis title: “*An Empirical Analysis of the Italian Economic System’s Asymmetries*”.
Thesis Advisor: Prof. *Beniamino Moro*

Teaching Experience

- **Instructor** Winter 03, Fall 04, Winter 05
University of Missouri-Columbia Columbia, MO
 - STAT 3500: “*Introduction to Probability and Statistics II*”.
 - Full responsibility instructor for two sections of about forty five students each.
 - Focused on regression, ANOVA and non-parametric methods. Software: MINITAB. Prerequisites: calculus and undergraduate statistical inference.
 - Used instructional technology to enhance pedagogical technique
- **Instructor** Fall 02 to Winter 04 (4 semesters)
University of Missouri-Columbia Columbia, MO
 - STAT 2500: “*Introduction to Probability and Statistics I*”.
 - Full responsibility instructor for two sections of about forty five students each.
 - Focused on descriptive statistics, probability, one and two sample inference.
Prerequisite: calculus.
 - Used instructional technology to enhance pedagogical technique.

- **Teaching Assistant** Fall 99, Spring 2000
University of Cagliari Cagliari, Italy
 - STATISTICS II: focused on regression, PCA, correspondence and cluster analysis.
 - Taught recitations focused on SPSS applications.
 - Course designed for undergraduate economics major with calculus and statistical inference as prerequisite.
- **Instructor** October and November 1999
Forma Mentis, Lp Cagliari, Italy
 - Full responsibility informatics instructor for a section of fifteen students.
 - Professional development course sponsored by the European Union, required graduate standing.

Research Experience

- **Research Assistant** Fall 05, Winter 06
University of Missouri-Columbia Columbia, MO
 - Research assistant for the *Social Science Statistics Center* of the University of Missouri, directed by Prof. Lori A. Thombs.
 - Interdisciplinary collaboration with faculties and consulting to graduate students, focusing on a wide range of statistical topics.
 - Protracted collaboration with Prof. Mike Kelly on the analysis of Ellett Self-Efficiency factors.
- **Research Assistant** Summer 05
University of Missouri-Columbia Columbia, MO
 - Research assistant for Prof. Dongchu Sun.
 - Focused on research problems such as feasibly implementable bayesian model selection techniques for large multivariate dynamic models.
- **Statistician and Econometrician** Sept 2000 to Dec 01
Universities of Cagliari and Perugia Cagliari and Perugia, Italy
 - Statistician and Econometrician for the *Research Center on Mobility Demand* (CRIMM), directed by Prof. Italo Meloni, in collaboration with the University of Cagliari and the University of Perugia.
 - Teamwork oriented job, focused on discrete-continuous, nested-tobit and SEM models for the analysis of time allocation.
 - Collaboration protracted after the end of the job relation.

Publications and Manuscripts

- A. Loddo, S. Ni, D. Sun, Bayesian Selection of Multivariate Stochastic Volatility Models, *in preparation*
- I. Meloni, A. Loddo, Time allocation to discretionary in-home, out-of-home and activities to trips using a nested tobit in a Bayesian hierarchical model perspective, *in preparation*
- I. Meloni, L. Guala, A. Loddo, The allocation of time to discretionary activities in home, out of home and to trips, *Transportation*, 2004, vol. 31 no. 1, pp 69-96.
(tier 1 journal on transportation research)
- I. Meloni, L. Guala, A. Loddo, Analysis of the interactions between time use and trips using a structural equation model, *Selected Proceedings from the 9th World Conference on Transport Research*, 2004, Pergamon Elsevier, Netherlands, pp 1-21.
- I. Meloni, L. Guala, A. Loddo, L'allocation del tempo alle attivita' discrezionali in casa, fuori casa e ai viaggi, in *Metodi e tecnologie dell'ingegneria dei trasporti. Seminario 2000*, 2002, Franco Angeli, Milano, (ISBN : 88-464-3412-9), pp.295- 310.
(Annual publication of the Italian Transportation Society)

Presentations

- Multivariate time series in a Bayesian perspective*, included in the poster presented by the Statistics Research Group directed by Prof. Walter Racugno at the SIS annual conference, Padova, Italy, November 2003.
- A Nested Tobit Model for the Analysis of the Mobility Demand*, University of Cagliari Statistics Colloquia, November 2000.
- Structural Equation Models and their application on Transportation Research*, University of Cagliari Statistics Colloquia, October 2000.

Academic Service

Secretary for Statistics Graduate Student Association (SGSA), University of Missouri-Columbia, August 2005 to present

- Responsible for membership correspondence and association website, fund raising coordinator and election organizer.

Social Science Statistics Center Promotion, University of Missouri-Columbia, August 2005 to present

- Decision making about marketing canals, advertisement design, speaker for the center.

Statistics Department Computing Committee, University of Missouri-Columbia, Fall 2004, Winter and Summer 2005.

Other Service

Volunteer for Bluffs Retirement Center, Columbia, MO, November 2003 to present

- Volunteer on a weekly basis.

Volunteer teacher, University of Missouri-Columbia, Winter 2005

- Teacher for University of Missouri International Center, project Kaleidoscope.
- Project aimed to teach about foreign cultures and targeted to students from first grade to college freshmen.

Professional Memberships

Institute of Mathematical Statistics.

American Statistics Association.

Sigma Xi Scientific Research Society.

Awards and Fellowships

University of Cagliari travel grant , May 2001.

Interuniversity Mathematical School (SMI) fellowship , July 2000.

- fellowship awarded up to 200 newly graduate students selected from all Europe to participate to the SMI mathematical summer program.

Languages

Italian, native.

Sardinian, native.

English, fluent.

French, excellent reading knowledge, good listening and speaking.

Spanish, good reading and listening, basic speaking.

Research Interests

Bayesian methods • multivariate time series • computational methods • model selection
• latent variables • dynamic models • hierarchical models • applications in economics
and social sciences.

Technical Skills

Languages and Statistical Software: Fortran, R, Splus, SAS, Matlab, SPSS, SPAD, MINITAB, Lisrel.

Typesetting : HTML, L^AT_EX, Acrobat Professional, MS Publisher.

Operating Systems : Windows, Unix and Linux.

Didactic software : Blackboard, WebCT.

References

Dongchu Sun

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Paul Speckman

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Christopher K. Wikle

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Lori A. Thombs

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Shawn Xiaoguang Ni

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Walter Racugno

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Italo Meloni

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