



# Stefano Mazzuco

## Curriculum Vitae

*“the only course for the social sciences is to forget all about the verbal fireworks” - K.R. Popper*

### Education

- 1994–1999: **“Laurea” (Master) in Scienze statistiche, demografiche e sociali**, University of Padova, Italy, Grade: 110 cum laude.  
Thesis title “Applicazione di un modello multistato alla popolazione anziana della provincia di Padova” (Applying a multistate projection model to elderly population in Padova).
- 2000–2003: **Phd in Statistics Applied in Economic and Social Sciences**, University of Padova, Italy, Thesis title “When a Child Leaves the Nest. A Comparative Study of France and Italy Based on Panel Data”. Supervisor: Professor Fausta Ongaro, co-supervisor: Professor Francesco Billari..
- 2000–2001 **Winter Semester**, Max Planck Institute for Demographic Research, Rostock, GER.

### Employment History

- 2014–Present **Qualified for Full professor**, in Demography and Social Statistics.
- 2011–Present **Associate Professor in Demography**, DEPARTMENT OF STATISTICAL SCIENCES, University of Padova.
- 2007–2011 **Assistant Professor in Social Statistics**, DEPARTMENT OF STATISTICAL SCIENCES, University of Padova.
- 2003–2005 **Post-doc position**, DEPARTMENT OF STATISTICAL SCIENCES, University of Padova.
- 2005–2007 **Research assistant position**, DEPARTMENT OF STATISTICAL SCIENCES, University of Padova.  
Project title: “Lifestyles and economic well-being of adults and minors: effects of family instability”

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## Research Grants & Research collaborations

Pending – waiting evaluation	<p><b>Title:</b> Unfolding the SEcrets of LongEvity: Current Trends and future prospects (SELECT). A path through morbidity, disability and mortality in Italy and Europe. <b>Description:</b> Progetto di Ricerca di Interesse Nazionale (PRIN) <b>Agency:</b> MIUR <b>Role:</b> Responsible for the local research unit <b>PI:</b> Stefano Campostrini</p>
2010–2013	<p><b>Title:</b> Successful ageing: definitions, circumstances, implications <b>Description:</b> Analyses of the role played by individual and family resources on the well-being of old population <b>Agency:</b> University of Padova <b>Role:</b> PI <b>Grant:</b> 32,000 EUR</p>
2010–2011	<p><b>Title:</b> Marmot Reviews <b>Description:</b> Analyses of economic benefits from health inequality reduction in England, preparation of the paper “The economic benefits of reducing health inequalities in England” included in the Marmot Review <b>Agency:</b> UCL <b>Role:</b> Collaboration (10% Effort time) <b>Grant:</b> 4,000 £</p>
2007–2008	<p><b>Title:</b> Socioeconomic differences in health, health behaviours and access to health care in Armenia, Belarus, Georgia, Kazakhstan, Kyrgyzstan, the Republic of Moldova, the Russian Federation and Ukraine <b>Description:</b> Evaluation of Socio-Economic differences in health outcomes in European countries with EU – LABOR FORCE SURVEY <b>Agency:</b> WHO <b>Role:</b> Collaboration (10% Effort time) <b>Grant:</b> 8,000 \$</p>
2007–2008	<p><b>Title:</b> Dinamiche dei corsi di vita tra contesto e legami forti <b>Description:</b> Progetto di Ricerca di Interesse Nazionale (PRIN) <b>Agency:</b> MIUR <b>Role:</b> Collaboration (10% Effort time) <b>PI:</b> Francesco C. Billari</p>
2005–2006	<p><b>Title:</b> Instabilità familiare: aspetti causali e conseguenze demografiche, economiche e sociali <b>Description:</b> Progetto di Ricerca di Interesse Nazionale (PRIN) <b>Agency:</b> MIUR <b>Role:</b> Collaboration (15% Effort time) <b>PI:</b> Massimo Livi Bacci</p>
2003–2004	<p><b>Title:</b> Corso di vita, famiglie e riproduzione fra scelte e costrizioni <b>Description:</b> Progetto di Ricerca di Interesse Nazionale (PRIN) <b>Agency:</b> MIUR <b>Role:</b> Collaboration (15% Effort time) <b>PI:</b> Massimo Livi Bacci</p>

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2001–2002    **Title:** La bassa fecondità italiana tra costrizioni economiche e cambio di valori  
**Description:** Progetto di Ricerca di Interesse Nazionale (PRIN)  
**Agency:** MIUR  
**Role:** Collaboration (15% Effort time)  
**PI:** Massimo Livi Bacci

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## Teaching – University of Padova

As head instructor

- **Biodemografia** 9 ECTS – Undergraduate program (2017–...)
- **Temi e metodi di popolazione e società** 9 ECTS – Master program (2016–...)
- **Analisi di dati da indagini complesse** 8 ECTS – Master program (2010–2015)
- **Laboratorio Socio-Demografico** 3 ECTS – Undergraduate program (2010–2011)
- **Laboratorio Statistico-Informatico Demografico-Sociale** 3 ECTS – Undergraduate program (2009–2010)
- **Sistemi Informativi Statistici** 6 ECTS – Undergraduate program (2008–2010)

As collaborator

- **Modelli statistici per dati sociali** 4 ECTS – Master program, (2015–...)
- **Statistica** 2 ECTS – Undergraduate program, (2015–2016)
- **Demografia internazionale** 2 ECTS – Undergraduate program, (2012–2014)
- **Modelli statistici I** 2 ECTS – Undergraduate program, (2012)
- **Analisi dei corsi di vita** 3 ECTS – Master program, (2012)
- **Analisi di dati sanitari ed epidemiologici** 3 ECTS – Master program, (2012)
- **Statistica Sociale** 3 ECTS – Undergraduate program, (2008–2010)
- **Statistica Sociale (progredito)** 3 ECTS – Master program, (2008–2011)
- **Statistica Economica: Serie Storiche Finanziarie** 2 ECTS – Master program, (2007)

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## Other Teaching Activities

- **Population Modelling** 15 hours – Phd School in Statistics (2015–2017)
- **From Frailty to Multiprocess Models** 15 hours – Phd School in Statistics (2013–2015)
- **Elementi di Statistica** 10 hours – Master Economia e Management della Sanità Università di Venezia (2009)
- **Modelli per dati gerarchici** 8 hours – Agenzia Regionale di Sanità Toscana (2008)
- **Statistical Demography** 12 hours, as collaborator – European Doctoral School of Demography c/o Institut National d'Etudes Démographiques (Paris) (2007–2008)
- **Demografia I** 6 ECTS – University of Venice (2006–2007)
- **Demografia** 9 ECTS – University of Trieste (2003–2007)

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## Student Advising & Assessment

- Phd Supervisor **Gebrehiwot Haftu** (“Implementing Hierarchical Bayesian Model to Fertility Data: The Case of Ethiopia”, graduated in 2015),  
**Zanotto Lucia** (“A Mixture Distribution to Differentiate Between Mortality Components”, graduated in 2017),  
**Adil Muhammad** (“Projecting Pakistan Population with a Bayesian Hierarchical Approach”, graduated in 2018),  
**Fazle Rabbi Ahabab Mohammad** (“Modified Lee-Carter Methods with LASSO type Smoothing and Adjusting for Lifespan Disparity”, expected to graduate in 2019).
- Phd Assessment Committee **Silvia Rizzi** (“Age-specific distributions from coarse count data: Epidemiological and demographic application of a penalized composite link model”, University of Southern Denmark, Odense (DK), 2018),  
**Dottorato in Demografia (XXVI & XXVII cycles)** Università “La Sapienza” di Roma (2015)  
**Nicola Barban** “Essays on Sequence Analysis for Life Course Trajectories” Università degli Studi di Padova (2010)
- Master students I supervised several Master students for their final thesis on the following topics: Fertility modelling, Mortality modelling, Impact of economic recession of demographic behaviour, Health inequality.

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## Post-doc Supervision

- 2017–2018 **Zanotto Lucia** Project title: A Hierarchical Mortality Model and its Applications
- 2012 **Toffolutti Veronica** Project title: Successful ageing: definitions, circumstances, implications

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## Management functions

- Member of Executive Council of “Gruppo di Coordinamento per la Demografia” (now “Associazione Italiana per gli Studi di Popolazione” – AISP) (2007–2009)
- Member of Executive Council of Department of Stastical Sciences (2010–2015)
- Member of Phd School in Statistics Board (2012–. . .)
- Member of Department of Statistics Commission in Tutoring (2007–2018)
- Member of Department of Statistics Commission in University guidance (2007–2018)
- Member of Department of Statistics Commission in Research Quality Assessment (“Valutazione Quadriennale della Ricerca” – VQR) (2012)

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## Conferences Organization

- February 2009 Member of Scientific Committee of “Giornate di studio della Popolazione” (Milano).
- September 2011 Member of Scientific and Organizing Committee of “YOUPOP Incontro tra giovani studiosi di popolazione” (Firenze).
- June 2013 Member of Scientific Committee of SIS (Italian Statistical Society) Congress “Advances in Latent Variables - Methods, Models and Applications” (Brescia).
- February 2014 Member of Scientific Committee of “The biometrics of the menstrual cycle. A conference in honour of Bernardo Colombo” (Padova).
- Settembre 2015 Member of Organizing Committee of SIS (Italian Statistical Society) Congress “Statistics and Demography: the Legacy of Corrado Gini” (Treviso).
- June 2020 Member of Organizing Committee of European Population Conference (Padova)

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## Conferences Participation

- As discussant International Population Conference 2017, Session *Statistical models for demographic estimation with incomplete or deficient data*, Cape Town
- Giornate di Studio sulla Popolazione 2009, Session *Nuovi Metodi di Analisi e Applicazioni Demografiche*, Milano
- As chair European Population Conference 2018, Session *Population Projections and Data Errors*, Bruxelles

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Giornate di Studio sulla Popolazione 2017, Session *Methods*, Firenze  
Giornate di Studio sulla Popolazione 2013, Session *Triggering effects of life and contextual events*, Brixen  
Società Italiana di Statistica Intermediate Meeting 2013, Session *Latent Variable in Demographic Analysis*, Brescia  
YOUPOP 2011, Session *Dati e metodi*, Firenze  
European Population Conference 2010, Session *Socioeconomic differentials in infant and child health*, Vienna  
European Population Conference 2008, Session *Individual Consequences of Family Formation and Dissolution*, Barcelona

As speaker **International Population Conferences**: Tour, 2005; Marrakech, 2009; Cape Town, 2017. **Population Association of America Conferences**: Minneapolis, 2003; Boston, 2004. **European Population Conferences**: Warsaw, 2003; Liverpool, 2006, Barcelona, 2008; Vienna, 2010; Stockholm, 2012; Mainz, 2016; Bruxelles, 2018. **Società Italia di Statistica Scientific Meetings**: Bari, 2004; Torino, 2006; Arcavacata di Rende, 2008; Padova, 2010; Cagliari, 2014. **Associazione Italiana di Studi di Popolazione – Popdays**: Bari, 2003; Padova, 2005; Latina, 2007; Milano, 2009; Ancona, 2011; Brixen, 2013; Palermo, 2015; Firenze, 2017. **European Society for Population Studies Conferences**: Bilbao, 2002. **British Society for Population Studies Conferences**: York, 2011. **EURESCO Conference: “Implications of Family and Fertility Change for Individuals, Families and Society”**: Spa, 2003. **Convegno “Famiglie, nascite e politiche sociali”**: Roma, 2005

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## Membership of Scientific Societies

2005–present International Union for the Scientific Study of Population (IUSSP)  
2003–present European Association for Population Studies (EAPS)  
2003–present Società Italiana di Statistica (SIS)  
2003–present Associazione Italiana per gli Studi di Popolazione (AISP)  
2003–2005 Population Association of America

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## Visting Periods

10/2000 – 3/2001 Max Planck Institute for Demographic Research, Rostock (Germany) – Reference: Francesco C. Billari  
June, 2001 Institut national d'études démographiques (INED), Paris (France) – Reference: Laurent Toulemon  
June, 2005 Institute for Social & Economic Research (ISER) – Reference: Arnstein Aassve

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8/2018 – 9/2018 School of Demography – Australian National University – Reference:  
Vladimir Canudas-Romo

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## Prizes

- 2004 **Società Italiana di Statistica**: Best Phd Thesis in Demography
- 2009 **Department of Statistical Sciences - University of Padova**: “premio alla ricerca”

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## Editorial and Reviewing Activity

- Associate editor of *Statistical Methods & Applications*.
- Reviewing activity for: *Archives of Gerontology and Geriatrics*, *Demographic Research*, *Rivista di Statistica Ufficiale*, *Journal of the Royal Statistical Society - Series A*, *Journal of the American Statistical Association*, *Advances in Life Course*, *Genus*, *BioMed Research*, *Population Studies*.

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## Publications

### Publication metrics

H-index (last update: October 15<sup>th</sup>, 2018)

- Web of Science: 12 (Sum of times cited: 375)
- Scopus: 11 (Sum of times cited: 440)
- Google Scholar: 16 (Sum of times cited: 1157)

### Publications in preparation

- Mazzuco, S., Keilman, N. (eds). *New Perspectives on Population Forecasting*. Springer, Publication expected in 2019.
- Canudas-Romo, V., Aldair, T., Mazzuco, S. *Cause of death decomposition of cohort survival comparisons: TCAL*. To be presented at PAA 2019.
- Mazzuco, S., Zanotto, L., Suhrcke M. *What is Premature Mortality? Trying to reconcile two views*. To be presented at PAA 2019.
- Zanotto, L., Canudas-Romo V., Mazzuco S. *A mixture-function mortality model: illustration of the evolution of premature mortality* Submitted.

### Peer-reviewed articles

- Fazle Rabbi A.M., Mazzuco S. (2018) “Mortality and life expectancy forecast for (comparatively) high mortality countries.” *Genus*

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- Mazzuco, S., Scarpa, B. & Zanotto L. (2018). "A mortality model based on a mixture distribution function" *Population Studies*, 72(2), 191–200.
- Mazzuco, S., Meggiolaro, S., Ongaro F. & Toffolutti V. (2017). "Living arrangements and cognitive decline among the elderly in Europe" *Ageing and Society*, 37(6), 1111–1133.
- Mazzuco, S., & Scarpa, B. (2015). "Fitting age-specific fertility rates by a flexible generalized skew normal probability density function." *Journal of the Royal Statistical Society: Series A (Statistics in Society)*, 178(1), 187–203.
- Mazzuco, S., & Meggiolaro, S. (2014). "Family structures and health behaviour in adolescents." *Child indicators research*, 7(1), 155–175.
- Albani, D., Ateri, E., Mazzuco, S., Ghilardi, A., Rodilossi, S., Biella, G., ... & Forloni, G. (2014). Modulation of human longevity by SIRT3 single nucleotide polymorphisms in the prospective study "Treviso Longeva (TRELONG)". *Age*, 36(1), 469-478.
- Gallucci, M., Mazzuco, S., Ongaro, F., Di Giorgi, E., Mecocci, P., Cesari, M., ... & Regini, C. (2013). Body mass index, lifestyles, physical performance and cognitive decline: the "Treviso Longeva (TRELONG)" study. *The journal of nutrition, health & aging*, 17(4), 378–384.
- Gustafson, D. R., Mazzuco, S., Ongaro, F., Antuono, P., Forloni, G., Albani, D., ... & Gallucci, M. (2012). Body Mass Index, Cognition, Disability, APOE Genotype, and Mortality: The "Treviso Longeva" Study. *The American Journal of Geriatric Psychiatry*, 20(7), 594–602.
- Albani, D., Mazzuco, S., Polito, L., Batelli, S., Biella, G., Ongaro, F., ... & Forloni, G. (2011). "Insulin-like growth factor 1 receptor polymorphism rs2229765 and circulating interleukin-6 level affect male longevity in a population-based prospective study (Treviso Longeva-TRELONG)". *The Aging Male*, 14(4), 257–264.
- Mazzuco S., Suhrcke M. (2011) "Health inequalities in europe: new insights from european labour force surveys. journal of epidemiology and community health" *Journal of Epidemiology and Community Health*, 65, 757–763
- Mazzuco, S. (2009) "Another Look into the Effect of Pre-marital Cohabitation on Marriage Duration: An Approach Based on Matching" *Journal of the Royal Statistical Society - Series A*, 172 (1), 255–273
- Ongaro, F., Mazzuco, S., Meggiolaro, S. (2009) "Economic Consequences of Union

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Dissolution in Italy: Findings from the European Community Household Panel" *European Journal of Population*, 25 (1), 45–65

- Rosina, A., Micheli, G. A., Mazzuco, S. (2007) "Le difficoltà dei giovani all'uscita dalla casa dei genitori. Un'analisi del rischio" *Rivista delle Politiche Sociali*, 2, 95–111
- Aassve, A., Davia, M., Iacovou, M., Mazzuco, S. (2007) "Does leaving home make you poor? Evidence from 13 European countries" *European Journal of Population*, 23(3-4), 315–338
- Gallucci, M., Ongaro, F., Bresolin, F., Bernardi, U., Salvato, C., Minello, A., Amici, G.P., Barasciutti, E., Mazzuco, S., Gajo, G.B., De Angeli, S., Forloni, G.L., Albani, D. Zanardo, A., Regini, C. (2007) "The Treviso Longeva (Trelong) study: A biomedical, demographic, economic and social investigation on people 70 years and over in a typical town of North-East of Italy" *Archives of Gerontology and Geriatrics*, 44, 173–192
- Aassve A., Betti G., Mazzuco S., Mencarini L. (2007) "Marital Disruption and Economic Well-being: A Comparative Analysis" *Journal of the Royal Statistical Society, Series A*, 170(3), 781–799
- Mazzuco S. (2006) "The Impact of Children Leaving Home on the Parents Wellbeing: A Comparative Analysis of France and Italy" *Genus* LXII (No. 3-4), 35–52
- Ongaro F., Mazzuco S., Gallucci M., Violo A. (2006) "Determinanti dell'ingresso dell'anziano in istituto nei primi anni duemila. Il caso di Treviso" *Polis*, XX (2), pp.183–204
- Mazzuco S., Mencarini L., Rettaroli R. (2006) "Similarities and differences between two cohorts of young adults in Italy: The results of a CATI survey on transition to adulthood" *Demographic Research* 15-5, pp. 105–146
- Aassve A., Mazzuco S., Mencarini L. (2006) "An empirical investigation into the effect of childbearing on economic wellbeing in Europe" *Statistical Methods and Applications* 15(2), pp. 209–227
- Aassve A., Mazzuco S., Mencarini L. (2005) "Childbearing and Wellbeing: A Comparative Analysis of European Welfare Regimes." *Journal of European Social Policy* 15(4), 2005, pp. 283–299
- Aassve A., Billari F.C., Mazzuco S., Ongaro F. (2002) "Leaving home: a comparative analysis of ECHP data", *Journal of European Social Policy* 12(4), 2002, pp. 259–275

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### Book chapters

- Canudas-Romo V., Mazzuco S., Zanotto L. (2018) "Measures and Models of Mortality" in Rao C.R. (ed.) *Handbook of Statistics*, (in press) Elsevier B.V.
- Aassve A., Betti G., Mazzuco S., Mencarini L. (2009) "Marital disruption and economic well-being: poverty, income and lifestyle deprivation" in AndreßH. J. and Hummelshein D. (eds.) *When Marriage Ends. Economic and Social Consequences of Partnership Dissolution*, pp. 330–358 Edward Elgar Cheltenham, UK - Northampton, MA, USA
- Mazzuco S., Suhrcke M. (2009) "Condizioni di salute nelle regioni italiane" in Ongaro F. e Salvini S. (ed.) *Rapporto sulla popolazione. Salute e sopravvivenza*, pp. 141–156 Il Mulino, Bologna
- Mazzuco S. e Ongaro F. (2006) *Costi e benefici dei figli* In F. Ongaro (a cura di): "Scelte riproduttive tra costi, valori, opportunità" FrancoAngeli, 2006, pp. 83–108
- Mazzuco S. (2005) *Demografia ed immigrazione* In D. Marini, F. Ferraro (a cura di): "Pordenone, ieri, oggi, domani. Dinamiche della società e prospettive del manifatturiero" Il Sole 24 Ore S.p.A., Milano. pp. 3–18
- Mazzuco S. (2004) *Demografia ed immigrazione* In D. Marini (a cura di): "Rovigo 2004. Sfide e opportunità per la società e l'economia" Quaderni FNE, Collana Ricerche n.19, 2004, pp. 44–56
- Mazzuco S. e Ongaro F. (2002) *Forme di vita familiare in tarda età: il ruolo della rete familiare* In F. Ongaro (a cura di): "In famiglia o in istituto. L'età anziana tra risorse e costrizioni" FrancoAngeli, 2002, pp. 53–72
- Mazzuco S. (2002) *Quali famiglie per i futuri anziani?* In F. Ongaro (a cura di): "In famiglia o in istituto. L'età anziana tra risorse e costrizioni" FrancoAngeli, 2002, pp. 107–125

### Monographs

- Suhrcke M., Rocco L., Urban D., McKee M., Mazzuco S., Steinherr A. (2007) *Economic consequences of non-communicable disease and injuries in Russian Federation*. Venice, World Health Organization European Office for Investment for Health and Development.
- Suhrcke M., Vork A., Mazzuco S. (2006) *The economic consequences of ill health in Estonia*. Copenhagen, WHO Regional Office for Europe.

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### Conference proceedings

- Mazzuco, S. & Scarpa, B. (2013). *A model of mortality based on a mixture distribution*. Atti del convegno “XXVII IUSSP International Population Conference” Busan, Corea del Sud.
- Mazzuco, S., Meggiolaro, S., & Ongaro, F. (2012). *Family resources and cognitive decline among elderly in Italy* Atti del convegno “46TH SCIENTIFIC MEETING OF THE ITALIAN STATISTICAL SOCIETY”, Roma.
- Stefano Mazzuco, Anna Giraldo, Lucia Coppola (2013). *Living arrangement and poverty dynamics: comparing results by using absolute and relative poverty threshold* Atti del convegno “Population Days 2013”, Bressanone.

### Invited Talks

- Mazzuco, S., Suhrcke, M., Zanotto L. (2018). *What is Premature Mortality? Reconciling two views*.  
Australian National University – School of Demography
- Mazzuco, S., (2017). *Tutorial on Mortality Measures and Models*.  
University of Padova – StaTalk
- Mazzuco, S., Scarpa, B., Zanotto L. (2015). *A mortality model based on a mixture distribution function*.  
University of Southern Denmark – Max Planck Odense Center
- Mazzuco, S. (2009). *Another look into the effect of pre-marital cohabitation on marriage duration. An approach based on matching*.  
University of Florence – Department of Statistics

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## Scientific Activity

My scientific activity is actually following different streams:

- *Fertility modelling via skew-normal distribution and its generalization*: I'm applying skew-normal distribution and its generalization in fertility modelling. In a recent publication a fertility model has been proposed and I'm working to extend the model in a hierarchical perspective.
- *Mortality modelling via skew-normal distribution and its generalization*: I'm also applying skew-normal distribution properties to fit mortality data. A new model has been proposed, and several applications will be proposed: differential/cause-specific modelling, historical and paleo-demographic data modelling, health/mortality inequality assessment.
- *Impact of economic recession in family formation*: This is a research project financed by Padova University. My contribution is to analyze the consequences of the recent economic recession on Italian families formation and organization. Using EU-SILC data, this analysis will be extended to other European countries.

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## Computer skills

Basic HTML, C  
Intermediate Linux, OpenOffice, Microsoft Windows  
Advanced R, L<sup>A</sup>T<sub>E</sub>X, SAS, Stata

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