

# Barban Nicola

CURRICULUM VITAE (*October 2020*)

## Contact Information

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Alma Mater Studiorum University of Bologna  
Dipartimento di Scienze Statistiche "Paolo Fortunati"  
Via Belle Arti 41, Bologna, Italy

e-mail: n.barban@unibo.it  
website: www.nicolabarban.com

## Current position

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*Since October 2020*

**Professor of Demography, University of Bologna.**

## Research interests

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- Social Demography
- Sociogenomics
- Life course analysis
- Social interactions
- Immigrant assimilation

## Education

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*January 2007-July 2010*

**PhD in Statistical Sciences. Department of Statistical Sciences, University of Padova.**

*March 2004-October 2006*

**MSc, Demographic and Social Sciences, Department of Statistical Sciences, University of Padova.**

*September 2000-March 2004*

**BA in Statistics and Management, Department of Statistical Sciences, University of Padova**

## Previous positions

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*November 2017 – September 2020*

**Institute for Social and Economic Research. University of Essex.**  
Reader (Associate Professor)

*September 2011 – August 2014*

**Department of Sociology. University of Groningen.**  
Postdoctoral researcher

*July 2010 – August 2011*

**Dondena Centre for Research on Social Dynamics. Bocconi University.**  
Postdoctoral researcher

## Visiting positions

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*February 2011; March 2012; February 2014*

Visiting scholar. Umeå University.

*August 2011*

Visiting scholar. Netherlands Interdisciplinary Demographic Institute (NIDI).

*January-July 2009; January-April 2010*

Visiting scholar. Population Studies Center, University of Pennsylvania.

*September-December 2009; April-July 2010*

Visiting scholar. Dondena, Centre for Research on Social Dynamics. Bocconi University.

*April-July 2008*

Visiting scholar. Population Studies and Training Center. Brown University.

## Publications

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Melinda M.C. Barban N, F.C. Troup (2020) "Introduction to Applied Statistical Genetic Analysis" *MIT press* In press.

N. Barban, De Luna X., Svensson I. and Billari, F.C. (2020) "Causal effects of the timing of life course events: age at retirement and subsequent health" **Sociological Methods and Research** 49 (1), 216–249.

Xuejie Ding, N. Barban, M.C. Mills and F.C. Troup (2019) "The relationship between cognitive decline and a genetic predictor of educational attainment" **Social Science and Medicine** (Vol. 239) 11549 (Online Advance Access)

Xuejie Ding, N. Barban, M.C. Mills (2019) "Educational attainment and allostatic load in later life: Evidence using genetic markers" **Preventive medicine** (Vol. 129) 105866

RM Verweij, MC Mills, G Stulp, IM Nolte, N Barban (2019) "Using polygenic scores in social science research: unravelling childlessness" **Frontiers in Sociology** Online Access: <https://doi.org/10.3389/fsoc.2019.00074>

F.C. Troup, . . . , Nicola Barban, et. al. (2018) "Hidden heritability due to heterogeneity across seven populations" **Nature Human Behaviour** 1(10):757-765.

Melinda M.C. Barban N, F.C. Troup (2018) "The power of polygenic scores of reproductive behavior and their relationship to other fertility traits." *Russel Sage Journal of Social Science*, 4(4), pp. 122–136

Barban N, et. al. and M.C. Mills (2016) "Genome-wide analysis identifies 12 loci influencing human reproductive behavior" **Nature Genetics**, 48, 1462–1472.

D. Mehta, et. al. (2016) "Evidence for Genetic Overlap Between Schizophrenia and Age at First Birth in Women" **JAMA Psychiatry** 73 (5), 497–505.

M. Sironi, N. Barban, R. Impicciatore (2015) "Parental social class and the transition to adulthood in Italy and the United States" *Advances in Life course research* 26:89–104.

F.C. Troup, G. Stulp, N. Barban, P. M. Visscher, J. Yangd, H. Snieder, M.C. Mills (2015). "Human Fertility, Molecular Genetics, and Natural Selection in Modern Societies" **PLOS ONE** 10(6): e0126821.

F. C. Trops, N. Barban, H. Snieder, M.C. Mills, J.J. Mandemakers (2015) “A Behavioural Genetic Study of Age at First Birth of Female UK Twins” *Population Studies* 69(2): 129–145.

N. Balbo and N. Barban, “Does fertility behavior spread among friends” (2014) *American Sociological Review*, 79(3):412–431.

N. Barban, “Family trajectories and health: A life course perspective” (2013) *European Journal of Population*, 29(4):357–385

Minello A. and N. Barban, (2012) “The educational expectations of children of immigrants in Italy” *The Annals of the American Academy of Political and Social Sciences*, 643(1): 78–103.

Barban N. and F.C. Billari, (2012) “Classifying life course trajectories. A comparison between latent class and sequence analysis” *Journal of the Royal Statistical Society Series C (Applied Statistics)*, 61(5):765–784.

Barban N. and M.J. White, (2011) “Immigrants childrens transition to secondary school in Italy” *International Migration Review*, 45(3): 702–726.

Barban N. and G. Dalla Zuanna, (2010) “A portrait of immigrant childrens housing experiences in Italy” *Housing Studies*, 25(4): 559–584.

### Manuscripts under review

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N. Barban, E. De Cao, C. Quintana-Domeneque and S. Oreffice. “Assortative Mating on Education: A Genetic Assessment” *University of Chicago, Center for the Economics of Human Development. Working Paper 2016-034*

Balbo N., Barban N. and M.C. Mills, “Cross-Friend Effects on Marriage and Childbearing as Interrelated Family-Formation Processes” *Working Papers WP056, “Carlo F. Dondena” Centre for Research on Social Dynamics (DONDENA), Università Commerciale Luigi Bocconi. revise-and-resubmit*

### Chapters in Books

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Barban, N. and N. Balbo (2020) “Social Capital, Gender Competition, and the Resurgence of Childlessness,” in *Analyzing Contemporary Fertility, The Springer Series on Demographic Methods and Population Analysis*, Ed. R. Schoen , Germany: Springer, pp 9–24.

Barban, N. and M. Sironi (2018) “Sequence Analysis as a Tool for Family Demography,” in *Analytical Family Demography, The Springer Series on Demographic Methods and Population Analysis*, Ed. R. Schoen , Germany: Springer, pp 101–123.

Barban, N. and D. Linder (2013) “Mathematical Modelling in Life Course Research,” in *Cumulative Life Course Impairment in Dermatological Diseases*, Ed. Kimball, A. , Linder, D. , Germany: Karger, vol 44, pp 33–46 .

Dalla Zuanna G. and N. Barban (2008) “Le seconde generazioni in Veneto”, in *Studiare insieme, crescere insieme?* Franco Angeli, Milano.

Dalla Zuanna G. and N. Barban (2007), “Giovani veneti, vecchi e nuovi” in *Immigrazione straniera in Veneto. Dati demografici, dinamiche del lavoro, inserimento sociale. Rapporto 2006*. Franco Angeli, Milano

Barban N. (2006), “La scuola” in *Immigrazione straniera in Veneto. Dati demografici, dinamiche del lavoro, inserimento sociale. Rapporto 2005*. Franco Angeli, Milano.

## Scholarships, Grants and Awards

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*December 2019*

Principal Investigator, ERC Consolidator Grant (865356): “GENPOP Genes, genealogies and the evolution of demographic change and social inequality” €2,000,000

*September 2019*

Co-Investigator, Economic and Social Research Council: “Large Research Centre on Micro-Social Change (MiSoC)” £8,000,000

*July 2018*

Italian National Scientific Qualification for the position of Full Professor of Demography and Social Statistics (13/D3)

*March 2017*

Italian National Scientific Qualification for the position of Associate Professor of Demography and Social Statistics (13/D3)

*September 2018*

Principal Investigator, British Academy Small Research Grant: “Exploring the interplay of social and genetic factors influencing puberty timing” £10,000

*January 2016*

Co-applicant, NCRM grant SOCGEN: “Combining Social Science and Molecular Genetic Research to Examine Inequality and the Life Course.” PI Prof. M. Mills

*January 2013*

Co-applicant, Large Networking Collaborative Project, FP7-SSH-2012 European Research Council (ERC), “FamiliesAndSocieties Changing Families and Sustainable Societies: Policy contexts and diversity over the life course and across generations.” Led by L.Olah University of Stockholm. Co-applicant (together with Prof. M. Mills) and co-leader of Working Package: The changing role of children and societal implications: Assisted reproduction, late fertility and childlessness. Value of award: €7.5 million, approximately €333,000 was awarded to Sociology at the University of Groningen.

*January 2010.*

Visiting Doctoral Fellowship. University of Pennsylvania. (\$10,000)

## Teaching

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### University of Oxford

- *Introduction to Applied Statistical Genetic Analysis*. [June 2020]
- *NCRM Summer school on socio-genetics*. [June 2017]
- *Demography*. BA in Human Sciences. [October 2016–March 2017]
- *Intermediate Quantitative Methods*. MSc Sociology. [January 2016–March 2016]
- Selected lectures. *Life Course Research*. MPhil Sociology. [From 2015]
- Selected lectures. *Introduction to Sociology*. BA in Human Sciences. [From 2015]

### University of Groningen

- *Event history and Survival Analysis*. Research Master in Sociology. [2012-2014]
- *Introduction to Research Master*. Research Master in Sociology. [2014]

- Selected lectures. *Applied Statistics* Research Master in Sociology. [2011-2012]

### **Bocconi University**

- Teaching Assistant *Quantitative Methods in Management*. Master of Science Economics and Management in Arts, Culture, Media and Entertainment. [2011]

### **Invited Lectures**

- *May 2015 Short course on Sequence Analysis*. Instituto de Estadística y Cartografía de Andalucía. Seville, Spain.
- *March 2014 Short course on Sequence Analysis*. University Bicocca. Milan, Italy.
- *June 2012 Short course on Sequence Analysis*. Pompeu Fabra University. Barcelona, Spain.
- *September 2012 Event history analysis and introduction to R*. European Consortium for Sociological Research/EqualSoc Summer School 2012. University of Trento, Italy.
- *March 2011 Short course on Sequence Analysis* Spanish National Research Council (CSIC), Madrid, Spain.

### **Supervision of Phd students**

- X. Ding (2018) (DPhil, University of Oxford).
- Dr. N. Balbo (2012); Dr. F.C. Troup (2016) (University of Groningen) [co-supervisor].

## Selected conferences and invited seminars

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October	2019	<i>Invited talk</i> , Bocconi University, Italy
May	2019	<i>Its About Time</i> Longitudinal Studies of the Life Course. Center for Life Course and Longitudinal Studies, Penn State
May	2019	<i>Invited talk</i> , University of Turin, Italy
April	2019	<i>Paper presentation</i> , PAA Annual Meeting, Austin, TX, USA.
September	2018.	<i>Paper presentation</i> , Postponement of Parenthood Conference. Villa Vigoni, Italy.
June	2018.	<i>Paper presentation</i> , EPC Annual Meeting, Bruxelles, Belgium.
April	2018.	<i>Paper and poster presentation</i> , PAA Annual Meeting, Denver, USA.
November	2017	<i>Invited talk</i> , ESRC Centre for Population Change, University of Edimburgh, UK.
April	2017.	<i>Paper and poster presentation</i> , PAA Annual Meeting, Chicago, USA.
April	2017	<i>Invited talk</i> , University of Trento, Italy.
March	2017	<i>Invited talk</i> , University of Amsterdam, The Netherlands.
February	2017	<i>Invited talk</i> , University of St. Andrews, UK.
January	2017	<i>Invited talk</i> , London School of Economics, UK.
January	2017	<i>Invited talk</i> , London School of Hygiene and Tropical Medicine, UK.
May	2016	<i>Invited talk</i> , Genes and Complex Human Phenotypes, University of Berkeley, USA.
May	2016	<i>Paper presentation</i> , ICWSM-16. Workshop on Social Media and Demographic Research, Cologne, Germany.
October	2015	<i>Paper presentation</i> , Integrating Genetics and Social Sciences Workshop, University of Colorado, Boulder USA.
September	2015	<i>Paper presentation</i> , Statistics and Demography: the Legacy of Corrado Gini, Treviso, Italy.
June	2015	<i>The Fragile Families Summer Data Workshop</i> . New York, USA
January	2015	<i>Paper presentation</i> , Giornate di studio della popolazione 2015, Palermo, Italy.
November	2014	<i>Paper presentation</i> , Social Science Genetic Association Meeting. CHARGE consortium meeting, Washington DC, USA.
May	2014.	<i>Paper presentation</i> , PAA Annual Meeting, Boston, USA.
January	2014	<i>Paper presentation</i> , Social Science Genetic Association Meeting, Los Angeles, USA.
September	2013.	<i>Paper presentation</i> , Working group meeting. FP7 FamiliesAndSocieties, Padua, Italy.
August	2013.	<i>Paper presentation</i> , IUSSP Meeting, Busan, South Korea.
June	2013.	<i>Paper presentation</i> , Social Science Genetic Association Meeting, Rotterdam, The Netherlands.

- May 2013. *Invited talk*, University of Cambridge. UK.
- March 2013. *Invited talk*, University of Oxford. UK.
- October 2012. *Invited participation*, Workshop: “Children of immigrants in Europe: new research challenges and empirical findings”, University of Padova. Italy.
- September 2012. *Paper presentation*, Fertility over the Life Course conference, University of Bremen. Germany.
- June 2012. *Invited participation*, Lausanne Conference On Sequence Analysis, University of Lausanne, Switzerland.
- April 2012. *Poster presentation*, PAA Annual meeting, San Francisco, USA.
- January 2012. *Paper presentation*, Alpine Population Conference (Alp-Pop), La Thuile, Italy.
- October 2011. *Social Science Genetic Association Meeting*, Los Angeles, USA.
- September 2011. *Invited participation*, Combining biology and social sciences in life course studies. Workshop, University of Helsinki, Finland.
- August 2011. *Invited talk*, NIDI, The Hague, The Netherlands.
- June 2011. *Paper presentation*, INSIDE Conference, Princeton Global Network on Child Migration, Barcelona, Spain.
- March 2011. *Paper presentation*, PAA Annual Meeting, Washington, USA.
- February 2011. *Invited talk*, University of Groningen, The Netherlands.
- February 2011. *Invited talk*, Umeå University, Sweden.
- February 2011. *Paper presentation*, Giornate di studio della popolazione 2011, Ancona, Italy.
- January 2011. *Paper presentation*, Alpine Population Conference (Alp-Pop), La Thuile, Italy.
- November 2010. *Invited talk*, University of Groningen.
- October 2010. *Paper presentation*, IUSSP workshop on transitions to adulthood, Bocconi University, Italy.
- September 2010. *Paper presentation*, European Population Conference, Vienna, Austria.
- July 2010. *Paper presentation*, Statistical challenges in Lifecourse research. Royal Statistical Society, Leeds, UK.
- April 2010. *Paper presentation*, PAA Conference, Dallas, USA.
- November 2010. *Paper presentation*, VID Conference on Education and Demography, Vienna, Austria.
- September 2009. *Poster presentation*, IUSSP Conference, Marrakech, Morocco.
- July 2008. *Poster presentation*, European Population Conference, Barcelona, Spain.
- September 2007. *Paper presentation*, The Family and Residential Choice. University of Amsterdam.

## Further education

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*22-26 September 2014*

Design and Analysis of Genetic-Based Association Studies, Wellcome Trust Center, Cambridge.

*27-31 August 2012*

Genome Wide Association Analysis course. Erasmus summer program 2012. Erasmus Medical School, University of Rotterdam, The Netherlands.

*5-9 March 2012*

International Workshop on Statistical Genetics and Methodology of Twin and Family Studies  
University of Colorado, Boulder, CO.

*18-29 August 2009*

Joint Summer School of the IUSSP and the Max Planck Institute for Demographic Research (MPIDR)  
Summer Course: “Frontiers of Formal Demography”, Max Planck Institute, Rostock, Germany.

*August 2008*

International Max Planck Research School for Demography.  
Summer Course: “Immigrant Integration”. (IMPRSD 153)

Lund University, Sweden.

*March 2008*

University of Tor Vergata, Rome, Italy.

“Tobit and selection models”. Professor: Prof. Francis Vella (Georgetown University)

*October 2007*

University of Florence, Italy. Department of Statistics “G. Parenti”

Course of the Italian Statistics Society (SIS): “Theory and practice of random effects models for multilevel and longitudinal data”. Professors: Prof. Leonardo Grilli and Prof. Carla Rampichini

*June 2006*

Course of the Italian Statistics Society (SIS): ‘Population and territory’. Geographical information system (GIS); Multilevel Models; Spatial data; Simulation.

## **Professional Service**

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### **Associate Editor:**

Statistical Methods and Application

### **Journals refereed:**

Nature Genetics; PNAS; Demography; Journal of Marriage and Family; Social Forces; International Journal of Public Health; PLOS One; European Journal of Population; Demographic Research; International Migration Review; Population Space and Place; European Sociological Review; Population Research and Policy Review; Biodemography and Social Biology; Advances in Life Course Research; European Journal Human Genetics; Housing Studies; Genus.

### **Advisory Board:**

Member of the ALSPAC Law and Ethics Committee, University of Bristol (2015-2017)

Member of the advisory board of the the University of Oxford Advanced Research Computing facility (2016-2017)

### **Reviewer for:**

Hungarian Scientific Research Fund (OTKA); Medical Research Council, UK

### **Session chair:**

European Population Conference 2012.