

Nicola Barban

Curriculum Vitae

Department of Statistical Sciences, University of Bologna
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Current Position

Since Oct 2020 **Full Professor of Demography**
Department of Statistical Sciences, University of Bologna, Italy

Education

2007–2010 **PhD in Statistical Sciences**
University of Padova, Italy

2004–2006 **MSc, Demographic and Social Sciences**
University of Padova, Italy

Previous Employment

2017–2020 **Reader**
Institute for Social and Economic Research (ISER), University of Essex, UK

2014–2017 **Senior Research Associate**
Department of Sociology, University of Oxford, UK

2011–2014 **Postdoctoral Researcher**
Department of Sociology, University of Groningen, The Netherlands

Other Affiliations

2017–2020 **Associate Member**, Nuffield College, University of Oxford, UK

2014–2017 **Non-Stipendiary Research Fellow**, Nuffield College, University of Oxford, UK

Since Jan 2010 **Research Affiliate**, Dondena Centre for Research on Social Dynamics and Public Policy,
Bocconi University, Milan, Italy

Grants and Awards

2022 **Principal Investigator**, PRIN 2022 PNRR (MUR)
ARGONAUT – Assortative mating in European human populations

2021 **Co-Investigator**, HORIZON-MSCA-2021-DN-01 (101073237)
European Social Science Genetics Network (ESSGN)

2021 **Co-Investigator**, PRIN 2020 (MIUR) & Fondazione Cariplo
GESI – Geography and Social Inequality in Italy
Partners: University of Milan (lead), Bologna, Catania, Luiss, Trento

- 2022 **Principal Investigator**, FARE 2020 (MUR)
Ita-GENPOP – Family networks and long-term population change in Italy
Dec 2022 – Nov 2026
- 2019 **Principal Investigator**, ERC Consolidator Grant (865356)
GENPOP – Genes, genealogies and the evolution of demographic change and social inequality
€1,985,706 · Oct 2020 – Sep 2026
- 2019 **Co-Investigator**, Economic and Social Research Council
Large Research Centre on Micro-Social Change (MiSoC)
£8,000,000
- 2018 **Principal Investigator**, British Academy Small Research Grant
Exploring the interplay of social and genetic factors influencing puberty timing
£10,000
- 2016 **Co-Applicant**, NCRM Grant SOCGEN
Combining Social Science and Molecular Genetic Research to Examine Inequality and the Life Course
PI: Prof. M. Mills

Publications

Working Papers

- Barban, N., De Cao, E., & Francesconi, M. (2025). “Fertility, Genes, and the Sexual Revolution.” Working paper, April 2025. *Revise & Resubmit, Journal of the European Economic Association.*
- Omenti, R., Alexander, M., & Barban, N. “A Bayesian Model to Estimate Male and Female Fertility Patterns at a Subnational Level.” Working paper. *Revise & Resubmit, Demography.*

Book

- Mills, M.C., Barban, N., & Tropf, F.C. (2020). *An Introduction to Statistical Genetic Data Analysis.* MIT Press.

Peer-Reviewed Articles

- Omenti, R., Alexander, M., & Barban, N. (in press). “Bayesian Indirect Estimation of Historical Fertility in Europe and US Using Online Genealogical Data.” **Sociological Methods and Research**, in press.
- Koksal, S., Barban, N., De Cao, E., & Francesconi, M. (in press). “A Research Note on Education, Teenage Births and the Role of Genetic Propensities.” **Demography**, in press.
- Minardi, S., Puschmann, P., & Barban, N. (2026). “Within Families, Across Borders: Lifespans of U.S. Immigrants Born 1850–1890 Compared to Origins, Destination, and Siblings.” **Demography**, 1–27.

- Minardi, S., Greco, S., & Barban, N. (2025). “A Comparison of Rule-based and Supervised Machine Learning Approaches for Record Linkage of Italian Historical Data.” **Historical Life Course Studies**, 15, 28–46. doi:10.51964/hlcs18990
- Rotondi, V., Allegra, M., Kashyap, R., Barban, N., Sironi, M., & Reverberi, C. (2024). “Enduring maternal brain changes and their role in mediating motherhood’s impact on well-being.” **Scientific Reports**, 14, 16608. doi:10.1038/s41598-024-67316-y
- Minardi, S., Corti, G., & Barban, N. (2024). “Historical Patterns in the Intergenerational Transmission of Lifespan and Longevity: A Research Note on U.S. Cohorts Born Between 1700 and 1900.” **Demography**, 61, 979–994. doi:10.1215/00703370-11458359
- Corti, G., Minardi, S., & Barban, N. (2024). “Trends in assortative mating in the United States, 1700–1910: Evidence from FamiLinx data.” **The History of the Family**, 29, 461–481. doi:10.1080/1081602X.2024.2352539
- Cozzani, M., Minardi, S., Corti, G., & Barban, N. (2023). “Birth month and adult lifespan: A within-family, cohort, and spatial examination using FamiLinx data in the United States (1700–1899).” **Demographic Research**, 49(9), 201–218. doi:10.4054/DemRes.2023.49.9
- Mathieson, I., Day, F.R., Barban, N., et al. (2023). “Genome-wide analysis identifies genetic effects on reproductive success and ongoing natural selection at the FADS locus.” **Nature Human Behaviour**, 7, 790–801. doi:10.1038/s41562-023-01528-6
- Mills, M.C., Tropf, F.C., Brazel, D.M., Barban, N., et al. (2021). “Identification of 371 genetic variants for age at first sex and birth linked to externalising behaviour.” **Nature Human Behaviour**, 5, 1717–1730. doi:10.1038/s41562-021-01135-3
- Pesando, L.M., Barban, N., Sironi, M., & Furstenberg, F.F. (2021). “A Sequence-Analysis Approach to the Study of the Transition to Adulthood in Low- and Middle-Income Countries.” **Population and Development Review**, 47, 719–747. doi:10.1111/padr.12425
- Barban, N., De Cao, E., Orefice, S., & Quintana-Domeque, C. (2021). “The effect of education on spousal education: A genetic approach.” **Labour Economics**, 71, 102023. doi:10.1016/j.labeco.2021.102023
- Barban, N., De Luna, X., Svensson, I., & 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. doi:10.1177/0049124117729697
- Ding, X., Barban, N., Mills, M.C., & Tropf, F.C. (2019). “The relationship between cognitive decline and a genetic predictor of educational attainment.” **Social Science and Medicine**, 239, 112549. doi:10.1016/j.socscimed.2019.112549
- Ding, X., Barban, N., & Mills, M.C. (2019). “Educational attainment and allostatic load in later life: Evidence using genetic markers.” **Preventive Medicine**, 129, 105866. doi:10.1016/j.ypmed.2019.105866
- Tropf, F.C., Lee, S., Verweij, R., Stulp, G., et al. (2018). “Hidden heritability due to heterogeneity across seven populations.” **Nature Human Behaviour**, 1(10), 757–765. doi:10.1038/s41562-017-0195-1

- Mills, M.C., Barban, N., & Tropf, F.C. (2018). “The Sociogenomics of Polygenic Scores of Reproductive Behavior and Their Relationship to Other Fertility Traits.” **Russell Sage Journal of Social Science**, 4(4), 122–136.
- Barban, N., et al. & Mills, M.C. (2016). “Genome-wide analysis identifies 12 loci influencing human reproductive behavior.” **Nature Genetics**, 48, 1462–1472. doi:10.1038/ng.3698
- Mehta, D., Tropf, F.C., Gratten, J., et al. Barban, N., et al. (2016). “Evidence for Genetic Overlap Between Schizophrenia and Age at First Birth in Women.” **JAMA Psychiatry**, 73(10), 1073–1081. doi:10.1001/jamapsychiatry.2016.1893
- Sironi, M., Barban, N., & Impicciatore, R. (2015). “The Role of Parental Social Class in the Transition to Adulthood.” **Advances in Life Course Research**, 26, 89–104.
- Tropf, F.C., Stulp, G., Barban, N., Visscher, P.M., Yang, J., Snieder, H., & Mills, M. (2015). “Human Fertility, Molecular Genetics, and Natural Selection in Modern Societies.” **PLOS ONE**, 10(6), e0126821. doi:10.1371/journal.pone.0126821
- Tropf, F.C., Barban, N., Snieder, H., Mills, M., & Mandemakers, J.J. (2015). “A Behavioural Genetic Study of Age at First Birth of Female UK Twins.” **Population Studies**, 69(2), 129–145. doi:10.1080/00324728.2015.1056823
- Balbo, N., & Barban, N. (2014). “Does fertility behavior spread among friends?” **American Sociological Review**, 79(3), 412–431.
- Barban, N. (2013). “Family trajectories and health: A life course perspective.” **European Journal of Population**, 29(4), 357–385. doi:10.1007/s10680-013-9296-3
- Minello, A., & Barban, N. (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., & Billari, F.C. (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. doi:10.1111/j.1467-9876.2012.01047.x
- Barban, N., & White, M.J. (2011). “Immigrants’ children’s transition to secondary school in Italy.” **International Migration Review**, 45(3), 702–726.
- Barban, N., & Dalla Zuanna, G. (2010). “A portrait of immigrant children’s housing experiences in Italy.” **Housing Studies**, 25(4), 559–584. doi:10.1080/02673031003712053

Book Chapters

- Barban, N., & Sironi, M. (2018). “Sequence Analysis as a Tool for Family Demography.” In R. Schoen (Ed.), *Analytical Family Demography* (The Springer Series on Demographic Methods and Population Analysis). Springer.
- Barban, N., & Linder, D. (2013). “Mathematical Modelling in Life Course Research.” In A. Kimball & D. Linder (Eds.), *Cumulative Life Course Impairment in Dermatological Diseases*. Karger.

- Dalla Zuanna, G., & Barban, N. (2008). “Le seconde generazioni in Veneto.” In *Studiare insieme, crescere insieme?* Franco Angeli.
- Dalla Zuanna, G., & Barban, N. (2007). “Giovani veneti, vecchi e nuovi.” In *Immigrazione straniera in Veneto. Rapporto 2006*. Franco Angeli.
- Barban, N. (2006). “La scuola.” In *Immigrazione straniera in Veneto. Rapporto 2005*. Franco Angeli.