

Ugofilippo Basellini

RESEARCH SCIENTIST (MPIDR) AND ASSOCIATED RESEARCHER (INED) · JAN 2020 - PRESENT

MPIDR: Laboratory of Digital and Computational Demography. Konrad-Zuse-Str. 1, 18057 Rostock, Germany

INED: Mortality, Health, and Epidemiology Research Unit. 9 cours des Humanités, 93322 Aubervilliers, France

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Education

Ph.D. in Health Sciences

Odense, Denmark · Paris, France

UNIVERSITY OF SOUTHERN DENMARK · INSTITUT NATIONAL D'ÉTUDES DÉMOGRAPHIQUES (INED)

Sep 2016 - Dec 2019

Thesis Title: *New Approaches in Mortality Modelling and Forecasting*

Supervisors: Dr. Carlo Giovanni Camarda; Prof. Jim Oeppen; Prof. Vladimir Canudas-Romo

European Doctoral School of Demography and MaxNetAging Research School

Rostock, Germany · Rome, Italy

MAX PLANCK INSTITUTE FOR DEMOGRAPHIC RESEARCH (MPIDR) & SAPIENZA UNIVERSITÀ DI ROMA

Feb 2015 - Jul 2016

M.Sc. and B.Sc. in Economics and Social Sciences

Milan, Italy

BOCCONI UNIVERSITY - GRADE: 110/110 SUMMA CUM LAUDE

Sep 2006 - Nov 2011

Thesis Title: *Estimating and Forecasting Mortality Rates*

Supervisors: Prof. Carlo Ambrogio Favero; Prof. Marco Bonetti

Exchange student at Boston University, Department of Economics and Mathematics

Journal Articles

PASCARIU, M.D., [U. BASELLINI](#), J.M. ABURTO AND V. CANUDAS-ROMO (2020). The Linear Link: Deriving Age-Specific Death Rates from Life Expectancy. *Risks*, 8, 109. [Online link](#), [GitHub R codes](#)

[BASELLINI U.](#), S. KJÆRGAARD AND C.G. CAMARDA (2020). An age-at-death distribution approach to forecast cohort mortality. *Insurance: Mathematics and Economics*. **91**, 129–143. DOI: 10.1016/j.insmatheco.2020.01.007. [Online link](#), [GitHub R codes](#)

ABURTO, J.M., F. VILLAVICENCIO, [U. BASELLINI](#), S. KJÆRGAARD AND J.W. VAUPEL (2020). Dynamics of life expectancy and life span equality. *Proceedings of the National Academy of Sciences of the United States of America*. 1–10. DOI: 10.1073/pnas.1915884117. [Online link](#), [Zenodo R codes](#)

[BASELLINI U.](#) AND C.G. CAMARDA (2019). Modelling and forecasting adult age-at-death distributions. *Population Studies*. **73**(1), 119–138. DOI: 10.1080/00324728.2018.1545918. [Online link](#), [GitHub R codes](#)

[BASELLINI U.](#), V. CANUDAS-ROMO AND A. LENART (2019). Location–Scale Models in Demography: A Useful Re-parameterization of Mortality Models. *European Journal of Population*. **35**, 645–673. DOI: 10.1007/s10680-018-9497-x. [Online link](#), [GitHub codes](#)

SUTTER, A., S. BARTON, M.D. SHARMA, [U. BASELLINI](#), D. HOSKEN AND C.R. ARCHER (2018). Senescent declines in elite tennis players are similar across the sexes. *Behavioral Ecology*, **29**(6), 1351–1358. DOI: 10.1093/beheco/ary112. [Online link](#)

ARCHER, C.R., [U. BASELLINI](#), J. HUNT, S.J. SIMPSON, K.P. LEE AND A. BAUDISH (2018). Diet has independent effects on the pace and shape of aging in *Drosophila melanogaster*. *Biogerontology*, **19**(1), 1–12. DOI: 10.1007/s10522-017-9729-1. [Online link](#)

GIGLIARANO, C., [U. BASELLINI](#) AND M. BONETTI (2017). Longevity and concentration in survival times: the log-scale-location family of failure time models. *Lifetime Data Analysis*, **23**(2), 254–274. DOI: 10.1007/s10985-016-9356-1. [Online link](#)

Other publications

BONETTI, M., C. GIGLIARANO AND [U. BASELLINI](#) (forthcoming). The Gini concentration index for the study of survival. In N. Mukhopadhyay and P.P. Sengupta (eds.), *Gini: An Edited Volume on the Occasion of Gini Centenary*. CRC Press

[BASELLINI U.](#) AND C.G. CAMARDA (2020). A Three-component Approach to Model and Forecast Age-at-death Distributions. In S. Mazzuco and N. Keilman (eds.), *Developments in Demographic Forecasting*, 105–129, Springer, Cham. [Online link](#), [GitHub R codes](#)

BERGERON-BOUCHER, M.P., S. KJÆRGAARD, M. PASCARIU, J.M. ABURTO, J. ALVAREZ, [U. BASELLINI](#), S. RIZZI AND J.W. VAUPEL (2020). Alternative forecasts of Danish life expectancy. In S. Mazzuco and N. Keilman (eds.), *Developments in Demographic Forecasting*, 131–151, Springer, Cham. [Online link](#)

RIFFE, T., M.R. NEPOMUCENO AND [U. BASELLINI](#) (2020). Mortality modeling. In D. Gu and M.E. Dupre (eds.), *Encyclopedia of Gerontology and Population Aging*. Springer, Cham. [Online link](#)

VANELLA, P., [U. BASELLINI](#) AND B. LANGE. Assessing Excess Mortality in Times of Pandemics Based on Principal Component Analysis of Weekly Mortality Data – The Case of COVID-19 (2020). *ArXiv*. [Online link](#)

[BASELLINI U.](#) AND C.G. CAMARDA (2020). Modelling COVID-19 mortality at the regional level in Italy. *SocArXiv*. [Online link](#)

[BASELLINI U.](#), D. ALBUREZ-GUTIERREZ, E. DEL FAVA, D. PERROTTA, M. BONETTI, C.G. CAMARDA AND E. ZAGHENI (2020). Linking excess mortality to Google mobility data during the COVID-19 pandemic in England and Wales. *SocArXiv*. [Online link](#)

BONETTI, M., AND [U. BASELLINI](#) (2020). Epilocal: a real-time tool for local epidemic monitoring. *ArXiv*. [Online link](#)

[BASELLINI U.](#) (2020). New Approaches in Mortality Modelling and Forecasting. PhD thesis. Odense: Syddansk Universitet / University of Southern Denmark. [Online link](#)

[BASELLINI U.](#) AND C.G. CAMARDA (2018). A Three-Component Lee-Carter approach to decompose and forecast human mortality. *Proceedings of the 33rd International Workshop on Statistical Modelling*, Bristol (UK), 17–22. [Proceedings link](#)

GIGLIARANO, C., [U. BASELLINI](#) AND M. BONETTI (2014). Concentration in survival times and longevity: The log-scale-location family of failure time models. *Dondena Working Paper No. 66*, [Online link](#)

Working papers

CAMARDA, C.G. AND [U. BASELLINI](#). Smoothing, decomposing and forecasting mortality rates. Under review

VAN RAALTE, A.A., [U. BASELLINI](#), C.G. CAMARDA, M. NEPOMUCENO AND M. MYRSKYLÄ. The dangers of drawing cohort profiles from period data. In preparation

[BASELLINI U.](#) AND C.G. CAMARDA. Lee–Carter cohort mortality forecasts. In preparation

ABURTO, J.M., [U. BASELLINI](#), A. BAUDISH AND F. VILLAVICENCIO. The Gini coefficient of the life table. In preparation

Invited Talks

IUSSP Webinar: Digital and computational approaches to study determinants and consequences of the spread of COVID-19

ONLINE WEBINAR, JULY 2020 ([PROGRAM AND VIDEO RECORDING](#))

INED Doctoral Research Day

PARIS (FRANCE), MAY 2019 ([ONLINE PROGRAM](#))

Workshop on Forecasting Danish Life Expectancy and Age at Retirement

ODENSE (DENMARK), DECEMBER 2018 ([TALK](#))

Workshop on Inequality and Uncertainty in Length of Life

TEL AVIV (ISRAEL), MAY 2018 ([TALK](#))

MaxNetAging Annual Meeting

12TH MEETING, ROSTOCK (GERMANY), MAY 2017 ([TALK](#))

IUSSP Seminar: Mortality analysis and forecasting

NEW DELHI (INDIA), APRIL 2017 ([TALK](#))

Conference contributions

Annual Meeting of the Population Association of America

84TH MEETING, AUSTIN, TX (USA), APRIL 2019 ([TALK](#)); 83RD MEETING, DENVER, CO (USA), APRIL 2018 ([TALK](#)); 81ST MEETING, WASHINGTON, DC (USA), APRIL 2016 ([POSTER1](#); [POSTER2](#))

Italian Population Days Conference (Popdays)

MILAN (ITALY), JANUARY 2019 ([TALK1](#); [TALK2](#)); FLORENCE (ITALY), FEBRUARY 2017 ([TALK](#))

International Workshop on Statistical Modelling

33RD MEETING, BRISTOL (UK), JULY 2018 ([PROCEEDINGS](#))

European Population Conference

BRUSSELS (BELGIUM), JUNE 2018 (TALK); MAINZ (GERMANY), SEPTEMBER 2016 (TALK)

IUSSP International Population Conference

28TH MEETING, CAPE TOWN (SOUTH AFRICA), NOVEMBER 2017 (TALK1; TALK2; TALK3)

International Longevity Risk and Capital Markets Solutions Conference

13TH MEETING, TAIPEI (TAIWAN), SEPTEMBER 2017 (TALK)

Human Mortality Database Symposium

4TH MEETING, BERLIN (GERMANY), MAY 2017 (TALK)

Italian Statistical Society Conference

TREVISO (ITALY), SEPTEMBER 2015 (TALK)

Nordic-Baltic Biometric Conference

4TH MEETING, STOCKHOLM (SWEDEN), JUNE 2013 (TALK)

Post-graduate education

Data visualization: the art/skill cocktail

INTERNATIONAL ADVANCED STUDIES IN DEMOGRAPHY (IDEM). INSTRUCTOR: DR. I. KASHNITSKY

Online course

2020

Multistate Models: Analysis from event histories and panel data

INTERNATIONAL ADVANCED STUDIES IN DEMOGRAPHY (IDEM). INSTRUCTOR: DR. J. GAMPE, PROF. H. PUTTER, PROF. A. VAN DEN HOUT

Rostock, Germany

2020

Smoothing Demographic Data

INTERNATIONAL ADVANCED STUDIES IN DEMOGRAPHY (IDEM). INSTRUCTOR: DR. C.G. CAMARDA

Rostock, Germany

2017

Probabilistic Population Projections: Theory and Practice

INTERNATIONAL ADVANCED STUDIES IN DEMOGRAPHY (IDEM). INSTRUCTORS: PROF. A. RAFTERY AND PROF. H. SEVCIKOVA

Rostock, Germany

2014

Statistical methods for population-based cancer survival analysis

SUMMER SCHOOL ON MODERN METHODS IN BIostatISTICS AND EPIDEMIOLOGY. INSTRUCTORS: PROF. P.W. DICKMAN AND PROF. P.C. LAMBERT

Treviso, Italy

2013

Teaching

Population Projections

EUROPEAN DOCTORAL SCHOOL OF DEMOGRAPHY, COHORT 2019-2020 (COURSE MATERIAL)

Online course

2020

Presentations in \LaTeX

EUROPEAN DOCTORAL SCHOOL OF DEMOGRAPHY, COHORTS 2017-18 & 2018-19 (COURSE MATERIAL)

Odense, Denmark

2018, 2019

Survival Analysis in Medical Research

TEACHING ASSISTANT, UNIVERSITY OF SOUTHERN DENMARK, PHD IN HEALTH SCIENCES

Odense, Denmark

2015

Work experience

Max-Planck Odense Center on the Biodemography of Aging

RESEARCH ASSISTANT, FORECASTING CLUSTER

Odense, Denmark

Nov 2014 - Feb 2015

Just Retirement

FULL-TIME STATISTICIAN, MEDICAL ADVISORY TEAM

Reigate, UK

Sep 2012 - Nov 2014

Barclays Capital

FULL-TIME GRADUATE ANALYST, FIXED INCOME RESEARCH

London, UK

Jan 2012 - Sep 2012

Skills

Programming R, \LaTeX , STATA, SAS, EViews, SPSS, Matlab

Mathematics 97th percentile (grade: 800/800) in the quantitative GRE exam

Languages Italian (mother tongue), English (fluent), French (basic), Spanish (basic)

Other experiences

Bocconi Merit Awards Scholarship

ACADEMIC YEAR 2009-10 & 2010-11

Reviewer of the following peer-reviewed journals:

- European Journal of Population
- Demographic Research
- Genus
- PLOS ONE
- Asian Population Studies
- Journal of Population Research
- International Journal of Clinical Biostatistics and Biometrics
- RIEDS - Italian Review of Economics, Demography and Statistics
- Revista Colombiana de Estadística
- Indonesian Journal of Electrical Engineering and Computer Science