PhD in Social and Political Science Bocconi University Academic Year 2023-24

41023 Demography (24 hours)

Professor Letizia Mencarini

DRAFT

The course is designed to introduce students to basic concepts of demographic measurement and modelling used to study changes in population size and composition. The course covers basic measures of mortality, fertility and migration; life table construction; stable populations; population projections; and age patterns of vital events. It will also introduce the main demographic theories to explain past trends and current demographic change. It will be privileged the macro/aggregate perspective.

Possible general textbook:

Lutz (2021) Advanced introduction to demography, Elgar. (on line in the Library)

Possible methodological demographic textbooks:

Preston (2000), Demography, Balckwell

Rowland (2003), Demographic methods and concepts, Oxford

Wachter (2014) Essential Demographic Methods, Harvard University Press <u>(on line in the Library)</u>

Weeks (2021) Population. An introduction to Concepts and Issues, 13^{TH} edition, Cencage-

Readings

Various published papers indicated in the detailed syllabus. Each student will briefly present in class two papers and a critical and discussion stimulating way

Assessment:

1/3 in class participation,

1/3 in class short presentations (3 each),

1/3 prospective/perspective paper

<u>Provisional detailed schedule and syllabus</u>

#	Date	Time	Title	Specific topics	Readings – papers to be presented and discussed in class (there are all in Bb)	Name of presenters (you need to be there in two different lectures)
1	Mon. 6 Nov 23-	14:45 – 16:15	Introduction:	Demography and/or population studies; from macro to micro to macro; Population change	Chapter 1 Lutz, Demography	N/A
2	Friday. 10 Nov 23-	14:45 – 16:15	Mortality	The theory of the demographic and mortality transition. Measuring mortality: crude rates and life—tables (cohort and period)	Lee R. (The Demographic Transition: Three Centuries of Fundamental Change	N/A
3	Mon.13 Nov23	14:45 – 16:15		Past, current and future trends in mortality and survival. Heterogeneity	(1) Mortality/survival trend &theories: - 1.1.: Oeppen & Vaupel (2002) Broken Limits to Life Expectancy, Science - 1.2.: Vaupel (2010) Biodemography of human ageing, Nature - 1.3: Dong et al (2016) Evidence for a limit to human lifespan, Nature - 1.4.: Barbi (2018) The plateau of human mortality: Demography of longevity pioneers, Science (2) Mortality/survival differentials - 2.1. Zarulli et al. (2018) Women live longer than men even during severe famines and epidemics, PNAS - 2.2.: Feraldi&Zarulli (2022) Patterns in age and cause of death contribution to the sex gap in life expectancy: a comparison among ten countries, Genus2.3.: Vaupelet al (2011) Life expectancy and disparity: an international comparison of life table data. BMJ - 2.3.: Roffia (2022)Determinants of life expectancy at birth: a longitudinal study on OECD countries, , International Journal of Health Economics and Management	
4	Wed. 15 Nov 23-	14:45 – 16:15		Effect of Covid-19 on mortality levels	(3) "Instant" papers during the pandemic - 3.1. Dowd et al. (2020) Demographic science aids in understanding the spread and fatality rates of COVI-19, PNAS; - 3.2. letter to Dowd, in PNAS	

					- 3.3. answer by Dowd, in PNAS - 3.4. Arpino et al (2020) No clear association emerges between intergenerational relationship and COVID-19, fatality rates from macro-level analyses, PNAS (4) Life expectancy changes because COVID-19 - 4.1.: Aburto (2022) Quantifying impact of the COVID-19 pandemic through life-expectancy losses, International Journ. of Epidemiology - 4.2.: Scholey et al (2022), Life expectancy changes since. COVID-19, Nature Human Behaviour - 4.3. Karlinsky&Kobak (2021) Tracking excess mortality across countries during the COVID-19 pandemic with the World Mortality Dataset, eLife.
5	Mon. 20 Nov 23	14:45 – 16:15	Fertility	Measurement of fertility	Basics
6	Wed. 22 Nov 23	14:45 – 16:15		Past and current trends in fertility Fertility transition theory Proximate determinants of fertility	 (5) 1st and 2nd Demographic transition van de Walle van de Walle, E. (1992). Fertility transition, conscious choice, and numeracy, Demography, 29(4), 487–502. Lee (2003) The Demographic Transition: Three Centuries of Fundamental Change, JEP Lutz (2022) Cognition-driven demographic transition, N-IUSSP and Advanced introduction to demography (in biblio on-line) Lesthaeghe (2014)The second demographic transition: A concise overview of its development, PNAS (6) Macro relationship between fertility and development Paper in Nature (2009) by Myrskyla et al on " Advances in development reverse fertility declines" (2021) by Gaddy on "A decade of TFR declines suggests no relationship between development and sub-replacement fertility rebounds" Greulich & Thevenon 2013 The Impact of Family Policies on Fertility Trends in Developed Countries Kalwji (2010) The impact of family policy expenditures on fertility in Western Europe. Demography

7		16:30 – 18:00		Determinants of low and high fertility	(7) High fertility Aisha Dasgupta et al. (2022) Contraceptive use and fertility transitions: The distinctive experience of sub-Saharan Africa, Demographic Research, 46, (97-130). Bongaarts J, Casterline J (2013). Fertility transition: Is sub-Saharan Africa different? Popul Dev Rev 38, 153–168. Kebede et al (2018) Stalls in Africa's fertility decline partly result from disruptions in female education, PNAS Liu & Raftery (2020) How Do Education and Family Planning Accelerate Fertility Decline?, PDR (8) Very low fertility Kohler et al. The Emergence of Lowest-Low Fertility in Europe During the 1990s, PDR, 2002 (only first part, until page 652) Myrskyla et al. (2013), New Cohort Fertility Forecasts for the Developed World: Rises, Falls, and Reversals, PDR, 2013. Sobotka (2021)World's Highest Childlessness Levels in East Asia, Population & Societies Lutz, Wolfgang. "Fertility Will Be Determined by the Changing Ideal Family Size and the Empowerment to Reach These Targets." Vienna Yearbook of Population Research 18 (2020): 63–70. https://www.jstor.org/stable/27041930.
8	Friday 24 Nov 23-	14:45 – 16:15	Population structure	Measurement, modelling, pop projections, momentum Age transition and stratification	Basics
9	Mond 27 Nov 23	14:45 – 16:15		Re-measuring aging: who is old and life course Role of migration	2005 Nature's paper, Average remaining lifetimes can increase as human populations age Warren C. Sanderson & Sergei Scherbov 2010 Science's paper, Remeasuring Aging, Warren C. Sanderson and Sergei Scherbov 2013 PDR The Characteristics Approach to the Measurement of Population Aging, by C. Sanderson and Sergei Scherbov 2015 PDR's paper Are We Overly Dependent on Conventional Dependency Ratios?, by Sanderson Scherbov

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					 (10) Replacement migration UN (2000) Replacement Migration: Is it A Solution to Declining and Ageing Populations? (study only the PRB review& summary) Craveiro (et al.) (2019) Back to replacement migration: A new European perspective applying the prospective age concept, DEMOGRAPHIC RESEARCH, 40(45), 1323-1344 Wilson et al., Migration and international replacement in Europe, PDR, 39(19), 2013 Billari, Francesco C. and Gianpiero Dalla-Zuanna. 2011. "Is replacement migration Janicki &Ledwith (2021) Replacement migration on the edge of the European Union: Wasting human capital?
10	Wed 29 Nov 23	14:45 – 16:15		Demographic dividend theory	(11) Demographic dividend - Lutz et al (2019) Education rather than age structure brings demographic dividend, PNAS - Gribble and Bremmer (2012) Achieving the demographic dividend, PBR - Henrik Urdal (2006) A clash of generations? Youth bulges and political violence International studies quarterly 50 (3), 607-629 - Lam (2007)The Demography and Economics of the World's "Youth Bulge", short report World Bank
11	Friday. 1 Dec 23-	14:45 – 16:15	Still on ageing		 (12) Ageing Smeeding (2014) Adjusting to fertility bust, Science 346 Lee et al (2014) Is low fertility really a problem? Population aging, dependency, and consumption, Science 346 Lee et al (2017) Does Fertility or Mortality Drive Contemporary Population Aging? The Revisionist View Revisited, PDR OECD (2017), Preventing Ageing Unequally (report) chapter 3: Recent trends toward increased inequality among future retirees OECD Publishing, Paris.

12	Mond 4 Dec 23	World population growth and decline, environment and global sustainability	Brief history Slow and fast growing Global variation and redistribution The Malthusian and Marxian perspectives	Basics	
			Population and resources in the short, long run and in the future, Neglected topics in demography in this course		