

JOHN R. WILMOTH

Curriculum Vitae

CONTACT INFORMATION

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EDUCATIONAL BACKGROUND

Princeton University, Princeton, New Jersey, 1984-1988
Ph.D., Statistics and Demography (joint degree), October 1988

Ball State University, Muncie, Indiana, 1979-1984
B.A. (*summa cum laude*), May 1984

PROFESSIONAL BACKGROUND

United Nations, Department of Economic and Social Affairs, Population Division, New York City
Director, 2013-present
Chief, Mortality Section, 2005-2007

University of California, Berkeley, Department of Demography, 1989-2014
Professor, 2011-2014 (*in absentia* 2013-2014)
Associate Professor, 1996-2011 (*in absentia* 2005-2007)
Graduate Advisor, 1991-1992, 1993-2003, 2007-2012
Assistant Professor, 1989-1996 (*in absentia* 1989-1990)

University of Michigan, Department of Sociology, Population Studies Center
Andrew W. Mellon Postdoctoral Fellow, 1988-1990

SELECTED PROFESSIONAL ACTIVITIES

National Academy of Sciences, Committee on Population, Member, 2012-present

World Health Organization and World Bank, Consultant

- Led development of new global estimates of maternal mortality, 2009-2012
- Helped conduct seminars on such estimates for government officials, 2010

Expert Panel on "Understanding divergent trends in longevity in high-income countries,"
Committee on Population, National Academy of Sciences, Member, 2008-2011

Human Mortality Database (<http://www.mortality.org>)
Founding Director (advisory), 2015-present
Director, 1997-2014

Technical Panel on Assumptions and Methods, Social Security Advisory Board, Member, 2003

Institut national d'études démographiques (INED), Paris

- Visiting Scholar, January-July 2001
- Special Committee on "La vocation internationale de l'INED," Member, 1999-2000

PROFESSIONAL ASSOCIATIONS

International Union for the Scientific Study of Population, 1999-present
Population Association of America, 1986-present
Population Reference Bureau, 1994-present

EDITORIAL BOARDS AND ADVISORY COMMITTEES

Demographic Research, Scientific Review Board, 1999-present
Encyclopedia of Population (Macmillan Reference USA), Editorial Board, 2001-2003
European Journal of Population, Editorial Board, 2001-present
Evaluation Review, Associate Editor, 1996-present
Population, International Committee, 2002-present

PAPERS AND PUBLICATIONS

Individual Authorship

- 2015 Leontine Alkema, Patrick Gerland, Adrian E. Raftery, and John R. Wilmoth. “The United Nations probabilistic population projections: An introduction to demographic forecasting with uncertainty using Bayesian hierarchical models.” *Foresight* (forthcoming).
- 2014 Patrick Gerland, Adrian Raftery, Hana Ševčíková, Nan Li, Danan Gu, Thomas Spoorenberg, Leontine Alkema, Bailey K. Fosdick, Jennifer Chunn, Nevena Lalic, Guiomar Bay, Thomas Buettner, Gerhard K. Heilig, and J. Wilmoth. “World population stabilization unlikely this century.” *Science* 346(6206): 234-237.
- 2014 Nadine Ouellette, Magali Barbieri, and J.R. Wilmoth. “Period-based mortality change: Turning points in trends since 1950.” *Population and Development Review* 40(1): 77-106.
- 2013 Sarah Zureick, Doris Chou, Nobuko Mizoguchi, Holly Newby, Lale Say, Emi Suzuki, and J. Wilmoth. “Understanding global trends in maternal mortality.” *International Perspectives on Sexual and Reproductive Health* 39(1): 32-41.
- 2012 J.R. Wilmoth, Nobuko Mizoguchi, Mikkel Z. Oestergaard, Lale Say, Colin Mathers, Sarah Zureick, Mie Inoue, and Doris Chou. “A new method for deriving global estimates of maternal mortality.” *Statistics, Politics, and Policy*, Vol. 3, Iss. 2, Article 3.
- 2012 J.R. Wilmoth, Vladimir Canudas-Romo, Sarah Zureick, Mie Inoue, and Cheryl Sawyer. “A flexible two-dimensional mortality model for use in indirect estimation.” *Population Studies* 66(1): 1-28.
- 2011 Brian Roston and J.R. Wilmoth. “Estimating the effect of smoking on slowdowns in mortality declines in developed countries.” *Demography* 48(2): 461-479.
- 2010 J. Wilmoth, Colin Mathers, Lale Say, and Samuel Mills. “Maternal deaths drop by one-third from 1990 to 2008: a United Nations analysis” (editorial). *Bulletin of the World Health Organization* (published online, 15 September 2010).
- 2010 J. Wilmoth, Sarah Zureick, Nobuko Mizoguchi, Mie Inoue, and Mikkel Oestergaard. “Levels and trends of maternal mortality in the world: The development of new estimates by the United Nations.” Technical report (submitted to the WHO, UNICEF, UNFPA, and the World Bank).
- 2010 J.R. Wilmoth, Carl Boe, and Magali Barbieri. “Geographic differences in life expectancy at age 50 in the United States compared with other high-income countries.” In: Eileen M. Crimmins, Samuel H. Preston, and Barney Cohen (eds.), *International Differences in Mortality at Older Ages: Dimensions and Sources*, Washington, D.C.: National Academies Press, pp. 337-372.

- 2010 Sam Preston, Dana Gleib, and J.R. Wilmoth. "Contribution of smoking to international differences in life expectancy." In: Eileen M. Crimmins, Samuel H. Preston, and Barney Cohen (eds.), *International Differences in Mortality at Older Ages: Dimensions and Sources*, Washington, D.C.: National Academies Press, pp. 105-131.
- 2010 Samuel Preston, Dana Gleib, and J.R. Wilmoth. "A new method for estimating smoking-attributable mortality in high-income countries." *International Journal of Epidemiology* 39(2): 430-438.
- 2009 J.R. Wilmoth. "The lifetime risk of maternal mortality: Concept and measurement." *Bulletin of the World Health Organization* 87: 256-262.
- 2008 Shiro Horiuchi, J.R. Wilmoth, and Scott D. Pletcher. "A decomposition method based on a model of continuous change." *Demography* 45(4): 785-801.
- 2007 John R. Wilmoth, Kirill Andreev, Dmitri Jdanov, and Dana A. Gleib. "Methods protocol for the Human Mortality Database" (version 5). Available online as part of the Human Mortality Database (<http://www.mortality.org/Public/Docs/MethodsProtocol.pdf>).
- 2007 J.R. Wilmoth. "Human longevity in historical perspective." In: Paola S. Timiras (ed.), *Physiological Basis of Aging and Geriatrics*, 4th edition, New York: Informa Healthcare, pp. 11-22.
- 2006 J.R. Wilmoth and Mike Dennis. "Social differences in older adult mortality in the United States: Questions, data, methods, and results." In: Jean-Marie Robine, Eileen M. Crimmins, Shiro Horiuchi, and Zeng Yi (eds.), *Human Longevity, Individual Life Duration, and the Growth of the Oldest-Old Population*, Dordrecht, The Netherlands: Springer, pp. 297-332.
- 2005 J.R. Wilmoth. "On the relationship between period and cohort mortality." *Demographic Research* 13(11): 231-280.
- 2005 Vladimir Shkolnikov, J.R. Wilmoth, and Dana A. Gleib. "Introduction to the Special Collection 'Human Mortality over Age, Time, Sex, and Place: The 1st HMD Symposium.'" *Demographic Research* 13(10): 223-230.
- 2005 J.R. Wilmoth. "Some methodological issues in mortality projection, based on an analysis of the U.S. social security system." *Genus* 61(1): 179-211. (Also published as a working paper, "Overview and discussion of the Social Security mortality projections," by the Social Security Advisory Board, Washington, D.C., 2005).
- 2004 R.N. Butler, H.R. Warner, T.F. Williams, S.N. Austad, J.A. Brody, J. Campisi, A. Cerami, G. Cohen, V.J. Cristofalo, D.A. Drachman, C.E. Finch, I. Fridovich, C.B. Harley, R.J. Havlik, G.M. Martin, R.A. Miller, S.J. Olshansky, O.M. Pereira-Smith, J.R. Smith, R.L. Sprott, M.D. West, J.R. Wilmoth, W.E. Wright. "The aging factor in health and disease: the promise of basic research on aging." *Aging Clinical and Experimental Research* 16(2): 104-111.
- 2003 J.R. Wilmoth and Jean-Marie Robine. "The world trend in maximum life span." In: James R. Carey and Shripad Tuljapurkar (eds.), *Life Span: Evolutionary, Ecological, and Demographic Perspectives*, supplement to vol. 29, *Population and Development Review*, pp. 239-257.
- 2003 J.R. Wilmoth. "Mortality decline." In: Paul Demeny and Geoffrey McNicoll (eds.), *International Encyclopedia of Population*, 2nd ed., New York: Macmillan Reference USA, vol. 2, pp. 654-662.
- 2002 Omer Gersten and J.R. Wilmoth. "The cancer transition in Japan since 1951." *Demographic Research* 7(5): 271-306.
- 2002 J.R. Wilmoth. "Human longevity in historical perspective." In: Paola S. Timiras (ed.), *Physiological Basis of Aging and Geriatrics*, 3rd edition, Boca Raton, FL: CRC Press, pp. 11-24.

- 2002 Thomas T. Perls, J.R. Wilmoth, Robin Levenson, Maureen Drinkwater, Melissa Cohen, Hazel Bogan, Erin Joyce, Stephanie Brewster, Louis Kunkel, and Annibale Puca. "Life-long sustained mortality advantage of siblings of centenarians." *Proceedings of the National Academy of Sciences* 99(12): 8442-8447.
- 2001 J.R. Wilmoth. "How long can we live? A review essay." *Population and Development Review* 27(4): 791-800. [Book review of S. Jay Olshansky and Bruce A. Carnes, *The Quest for Immortality: Science at the Frontiers of Aging*, New York: W.W. Norton, 2001.]
- 2001 J.R. Wilmoth and Tapani Valkonen. "A parametric representation of mortality differentials over age and time." EAPS seminar, "Trends in differentials in morbidity and mortality: Analysis and explanation," Pontignano, Italy, April 2001.
- 2001 J.R. Wilmoth. "Les modèles âge-période-cohorte en démographie." In: Graziella Caselli, Jacques Vallin, and Guillaume Wunsch (eds.), *Démographie: Analyse et Synthèse. I. La Dynamique des Populations*, Paris: INED, pp. 379-397.
- 2001 J.R. Wilmoth and Paola S. Timiras. "Demographic, comparative, and differential aging." In: Ronnie A. Rosenthal, Michael E. Zenilman, and Mark R. Katlic (eds.), *Principles and Practice of Geriatric Surgery*, New York: Springer-Verlag, pp. 24-37.
- 2000 J.R. Wilmoth. "Demography of longevity: Past, present, and future trends." *Journal of Experimental Gerontology* 35(9-10): 1111-1129.
- 2000 J.R. Wilmoth, Leo J. Deegan, Hans Lundström, and Shiro Horiuchi. "Increase of maximum life-span in Sweden, 1861-1999." *Science* 289: 2366-2368.
- 1999 J.R. Wilmoth and Shiro Horiuchi. "Rectangularization revisited: Variability of age at death within human populations," *Demography* 36(4): 475-495.
- 1999 Axel Skytthe, Bernard Jeune, and J.R. Wilmoth. "Age validation of the oldest man." In: Bernard Jeune and James W. Vaupel (eds.), *Validation of Exceptional Longevity*, Odense, Denmark: Odense University Press, pp. 173-188.
- 1999 J.R. Wilmoth. "Comment on A. R. Thatcher, 'The long-term pattern of adult mortality and the highest age attained.'" *Journal of the Royal Statistical Society A* 162(1): 40.
- 1999 J.R. Wilmoth and Shiro Horiuchi. "Do the oldest old grow old more slowly?" In: Jean-Marie Robine, Bernard Forette, Claudio Franceschi, and Michel Allard (eds.), *The Paradoxes of Longevity*, Heidelberg: Springer-Verlag, pp. 35-60.
- 1998 Shiro Horiuchi and J.R. Wilmoth. "Deceleration in the age pattern of mortality at older ages." *Demography* 35(4): 391-412.
- 1998 J.R. Wilmoth. Double book review. [Henri Leridon and Laurent Toulemon, *Démographie: Approche statistique et dynamique des populations*, Paris: Economica, 1997; and Jean Bourgeois-Pichat, *La dynamique des populations: Population stables, semi-stables, quasi-stables*, Paris: Presses Universitaires de France, 1994.] *Population and Development Review* 24(4): 860-862.
- 1998 J.R. Wilmoth. "Is the pace of Japanese mortality decline converging toward international trends?" *Population and Development Review* 24(3): 593-600.
- 1998 J.R. Wilmoth. "The future of human longevity: A demographer's perspective." *Science* 280: 395-397, 1998. Letters and response, *Science* 281: 1611-1615.
- 1998 J.R. Wilmoth. "American mortality in international perspective: The evolution of relative rankings by age." Population Association of America, Annual Meeting, Chicago, April.
- 1997 J.R. Wilmoth. Book review. [Richard Lynn, *Dysgenics: Genetic Deterioration in Modern Populations*, Westport, CT: Praeger, 1996.] *Population and Development Review* 23(3): 663-666.

- 1997 J.R. Wilmoth. "In search of limits." In: Kenneth W. Wachter and Caleb E. Finch (eds.), *Between Zeus and the Salmon: The Biodemography of Longevity*, Washington, DC: National Academy Press, pp. 38-64.
- 1997 Shiro Horiuchi and J.R. Wilmoth. "Age patterns of the life table aging rate for major causes of death in Japan, 1951-1990." *Journal of Gerontology* 52A(1): B67-B77.
- 1996 J.R. Wilmoth, Axel Skytthe, Diana Friou, and Bernard Jeune. "The oldest man ever? A case study of exceptional longevity." *The Gerontologist* 36(6): 783-788.
- 1996 J.R. Wilmoth. "Mortality projections for Japan: A comparison of four methods." In: Graziella Caselli and Alan Lopez (eds.), *Health and Mortality among Elderly Populations*, Oxford University Press, pp. 266-287.
- 1996 J.R. Wilmoth. Book review. [Väinö Kannisto, *Development of Oldest-Old Mortality, 1950-1990: Evidence from 28 Developed Countries*, Odense, Denmark: Odense University Press, 1994.] *Population Studies*, 50(1): 143-144.
- 1996 J.R. Wilmoth and Hans Lundström. "Extreme longevity in five countries: Presentation of trends with special attention to issues of data quality." *European Journal of Population* 12(1): 63-93.
- 1995 Shiro Horiuchi and J.R. Wilmoth. "The aging of mortality decline." Presented at the Annual Meetings of the Population Association of America (April) and the Gerontological Society of America (November).
- 1995 J.R. Wilmoth. "The Earliest Centenarians: A statistical analysis." In: Bernard Jeune and James W. Vaupel (eds.), *Exceptional Longevity: From Prehistory to the Present*, Odense, Denmark: Odense University Press, pp. 125-169.
- 1995 J.R. Wilmoth. "Are mortality projections always more pessimistic when disaggregated by cause of death?" *Mathematical Population Studies* 5(4): 293-319.
- 1995 J.R. Wilmoth. "Are mortality rates falling at extremely high ages? An investigation based on a model proposed by Coale & Kisker." *Population Studies* 49(2): 281-295.
- 1995 J.R. Wilmoth and Patrick Ball. "Arguments and action in the life of a social problem: A case study of 'Overpopulation,' 1946-1990." *Social Problems* 42(3): 318-343.
- 1994 J.R. Wilmoth. "Population issues. Perspectives: Past and present." *The American Enterprise* 5(5): 28-35+.
- 1994 J.R. Wilmoth. Book review. [David W. E. Smith, *Human Longevity*, New York: Oxford University Press, 1993.] *Population and Development Review* 20(2): 467-469.
- 1993 J.R. Wilmoth. "Computational methods for fitting and extrapolating the Lee-Carter model of mortality change." Technical report, Department of Demography, University of California, Berkeley.
- 1992 J.R. Wilmoth and Patrick Ball. "The population debate in American popular magazines, 1946-1990." *Population and Development Review* 18(4): 631-668.
- 1991 J.R. Wilmoth. "AIDS mortality in the United States: Ranking AIDS among the leading causes of death." Population Association America, Annual Meeting, Washington, D.C., March.
- 1990 J.R. Wilmoth. "Variation in vital rates by age, period, and cohort." In: Clifford C. Clogg (ed.), *Sociological Methodology*, Oxford: Basil Blackwell, Vol. 20, pp. 295-335.
- 1989 J.R. Wilmoth, Jacques Vallin, and Graziella Caselli. "Quand certaines générations ont une mortalité différente de celle que l'on pourrait attendre." *Population* 44(2):335-376. (Reissued in 1990 as "When does a cohort's mortality differ from what we might expect?", *Population: English Selection* 2: 93-126.)

1988 J.R. Wilmoth. *On the Statistical Analysis of Large Arrays of Demographic Rates*. Ph.D. dissertation. Department Statistics and Office of Population Research, Princeton University.

Corporate Authorship

(This section includes publications or other outputs where I made a substantial contribution while working as part of a larger group or organization through 2012. It does not include publications of the United Nations Population Division since 2013, while I have been the Director of that organization.)

2012 World Health Organization, UNICEF, UNFPA, and The World Bank. *Trends in Maternal Mortality: 1990 to 2010*. Geneva: World Health Organization.

2010 World Health Organization, UNICEF, UNFPA, and The World Bank. *Trends in Maternal Mortality: 1990 to 2008*. Geneva: World Health Organization.

2010 Human Mortality Database, www.mortality.org. [The database was first published online in 2002, with data for an initial group of 17 countries; as of February 2012, it includes data for 37 countries.]

2007 United Nations. *World Economic and Social Survey 2007*. New York: United Nations (Sales No. E.07.II.C.1).

2007 United Nations. *United Nations Expert Group Meeting on Current Issues in the Estimation of Adult Mortality (New York, 26-27 October 2006), Report of the Meeting*. New York: United Nations (ESA/P/WP.203).

2007 United Nations. *Principles and Recommendations for Population and Housing Censuses, Revision 2*. New York: United Nations (Sales No. E.07.XVII.8).

2006 Child Mortality Coordination Group. "Tracking progress towards the Millennium Development Goals: Reaching consensus on child mortality levels and trends." *Bulletin of the World Health Organization* 84(3): 225-232.

2006 United Nations. *World Mortality Report 2005*. New York: United Nations (Sales No. E.06.XIII.3).

2003 Technical Panel on Assumptions and Methods. *Report to the Social Security Advisory Board*. Social Security Advisory Board, Washington, D.C.