

John Bongaarts

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Birth Place: Tegelen, The Netherlands
Citizenship: US and The Netherlands

EMPLOYMENT RECORD:

2007 to present: Vice President and Distinguished Scholar, The Population Council, New York
1989 to 2006: Vice President, Policy Research Division, The Population Council, New York
1988 to 1989: Deputy Director, Center for Policy Studies, The Population Council, New York
1982 to 1988: Senior Associate, Center for Policy Studies, The Population Council, New York
1973 to 1981: Associate, Center for Policy Studies, The Population Council, New York
1977 to 1986: Associate Professor (adjunct), Department of Population and Family Health,
Columbia University

EDUCATION:

M.S. 1968, Electrical Engineering, Eindhoven Institute of Technology, The Netherlands

Ph.D. 1972, Physiology and Biomedical Engineering, University of Illinois.
Dissertation: "A Cybernetic Model of the Demographic Transition"

Postdoctoral Fellow 1973, Population Dynamics, Johns Hopkins University

HONORS AND AWARDS:

Member, U.S. National Academy of Sciences 2002.

Member, Royal Dutch Academy of Sciences 1986.

Member, Johns Hopkins Society of Scholars 1988.

Robert J. Lapham Award, Population Association of America, 1997.

Fellow, American Association for the Advancement of Science, 1994.

Mindel Sheps Award, Population Association of America, 1986.

Research Career Development Award, National Institutes of Health, 1980–1985.

PROFESSIONAL ACTIVITIES:

Member, Committee on The Long-run Macroeconomic Implications of Population Aging, National Research Council, 1994–2000. National Research Council, 2010-2012

Member, Social Security Advisory Board, Technical Panel on Assumptions and Methods, 2010-2011

Chair, Institutional Review Board, Population Council, 2008-present

Member, Editorial Committee, *Population And Development Review*, 2007-present

Chair, Editorial Committee, *Studies in Family Planning*, The Population Council, 2000–present.

Chair, Panel on Population Projections, Committee on Population, National Research Council, 1998-2000.

Member, Technical Advisory Group, MEASURE, DHS+, Macro International, 1998-2000.

Member, Board on Sustainable Development, National Research Council, 1994–2000.

Member, Committee on Population, National Research Council, 1994–2000.

Member, Population Advisory Committee, Hewlett Foundation, 2000.

International Advisory Group, MacArthur Foundation, November, 1999–2003.

Member, Board of African Population and Health Research Centre (APHRC), Nairobi, 1996-2000.

Briefing on “Population Policy Options in the Developing World” to Vice President Albert Gore, August 1994.

Briefing on “Population Policy Options in the Developing World” to Secretary of State Warren Christopher, April 1994.

Member, Advisory Group on Population and Goals, UNICEF, 1993–1995. Member, Technical Advisory Committee, EVALUATION Project, University of North Carolina, 1992–1997.

Member, Scientific Advisory Committee, Demographic and Health Surveys, Institute for Resource Development, Columbia, MD, 1987–1998.

Member, Editorial Committee of *Studies in Family Planning*, 1981–present.

Member, Population–Environment Fellows Program Board, University of Michigan, 1992–1995.

Member, Board of Directors, Society for the Study of Social Biology, 1987–present.

Member, Committee on Biomedical Demography, International Union for the Scientific Study of Population, 1986–1990.

Member, Working Group on Health Consequences of Contraceptive Use and Controlled Fertility, National Academy of Sciences, 1986–1990.

Testimony on “Demographic Impact of AIDS in Africa” before Presidential Commission on AIDS, April 1988.

Member, United Nations Expert Group on Methodology for Measuring Contraceptive Use Dynamics, 1988.

Member, World Bank Mission to Indonesia, December 1985.

Member, Board of Directors, Population Association of America, 1983–1986.

Chairman, Committee on Family Demography and the Life Cycle of the International Union for the Scientific Study of Population, 1982–1985.

Member, Third United Nations Expert Group on Methods of Measuring the Impact of Family Planning Programmes on Fertility, 1982.

Member, Committee for the Analysis of Family Planning Programs of the International Union for the Scientific Study of Population, 1978–1981.

Member, Second United Nations Expert Group on Methods of Measuring the Impact of Family Planning Programmes on Fertility, 1979.

Member, Committee on Nutrition and Fertility, Food and Nutrition Board, National Academy of Sciences, 1980–1982.

Member, State of the Art Committee, Panel on the Determinants of Fertility, National Academy of Sciences, 1980–1982.

Member, Study Group on Methodological Aspects of the Demography of the Family, Committee for International Cooperation in National Research in Demography (Paris), 1979, 1982.

Chairman, organizer, discussant, and/or presenter of papers at scientific meetings of the United Nations, World Bank, WHO, AID, IUSSP, PAA, AAAS, and NAS.

Reviewer of articles or books for *Demography*, *Family Planning Perspectives*, *Journal of American Statistical Association*, *Journal of Biosocial Sciences*, *Population and Development Review*, *Population Studies*, *Science*, *Social Biology*, *Studies in Family Planning*.

PUBLICATIONS:

Articles:

“Global HIV/AIDS policy in transition” *Science*, 328:1359-1360, 2010

“When is a tempo effect a tempo distortion” 2010, *Genus*, 66:1-14 (with Griffith Feeney)

“How many more AIDS deaths?” *Lancet* 375:103-104, 2010 (with François Pelletier and Patrick Gerland).

“Fertility and public policy” *Concise Blackwell Encyclopedia of Sociology*, (George Ritzer and J. Michael Ryan, editors), Blackwell: Oxford 2010

“Population growth, policy options and public health” in “*Public Health in the 21st Century*” (Madelon Finkel, editor), Santa Barbara, CA: Praeger Publishing, 2010

“*Kenya’s Fertility Transition: Trends, Determinants and Implications for Policy and Programmes*”. 2009. Population Council, Nairobi (with Ian Askew, Alex Ezeh, and John Townsend).

“Human population growth and the demographic transition.” *Philosophical Transactions of the Royal Society of London. Series B, Biological sciences* 364: 2985-2990, 2009

“The new population challenge”. *Population, Justice and the Environmental Challenge*, Laurie Mazur (editor). Island Press, pp 260-275, 2009 (with Judith Bruce).

“A Response to critics of family planning programs”. *International Perspectives on Sexual and Reproductive Health* 35 (1), pp. 39-44, 2009 (with Steven Sinding)

“Bongaarts and Sinding reply” Letter in *International Perspectives on Sexual and Reproductive Health* Volume 35, 3: 153-154, 2009 (with Steven Sinding).

“Trends in senescent life expectancy” *Population Studies*, 63(3):203-213, 2009.

“Global trends in AIDS mortality,” *Poverty, Gender, and Youth Working Paper no. 16*. New York: Population Council 2009. Forthcoming in *International Handbook of Adult Mortality* (Richard G. Rogers and Eileen M. Crimmins, editors) Springer. (with François Pelletier and Patrick Gerland).

“What can fertility indicators tell us about pronatalist policy options?” *Vienna Yearbook of Population Research*, pp39-56, 2008.

“HIV epidemic over piek heen? *Demos* 9. December 2008 (with Thomas Buettner, Gerard Heilig and François Pelletier)

“Male Circumcision is an Efficacious, Lasting and Cost-Effective Strategy for Combating HIV in High-Prevalence AIDS Epidemics: Time to Move beyond Debating the Science” *Future HIV Therapy*, 2(5):399-405, 2008 (with Wamai et.al.)

“No Babies” Letter to the editor, *The New York Times Magazine*, July 13, 2008

“Has the AIDS epidemic peaked?” *Population and Development Review* 14(2):199-224, 2008 (with Thomas Buettner, Gerard Heilig and François Pelletier)

“Fertility transitions in the developing world: Progress or stagnation?” *Studies in Family Planning* 39(2): 105-110, 2008

“*How long do we live: Demographic Models and Reflections on Tempo Effects?*” Editors: Elisabetta Barbi, John Bongaarts and Jim Vaupel, Springer Press, 2008

“Afterthoughts on the mortality tempo effect” in “*How long do we live?*” Editors: Elisabetta Barbi, John Bongaarts and Jim Vaupel, Springer Press, 2008 (with Griff Feeney)

“Population growth” In *Encyclopedia of Social Problems* Edited by Vincent N. Parrillo. Sage. 2008

- "Fertility and public policy," in George Ritzer, (ed.), *The Blackwell Encyclopedia of Sociology* Blackwell: Oxford, 2007
- "Late marriage and the HIV epidemic in sub-Saharan Africa" *Population Studies*, 61 (1): 73-83, 2007
- "The quantum and tempo of life cycle events," *Vienna Yearbook of Population Research* 2006, pp.115-151.(with Griff Feeney)
- "How long will we live?" *Population and Development Review*, 32(4): 605–628, 2006
- "The causes of stalling fertility transitions," *Studies in Family Planning* Vol. 37 (1): 1-16, 2006.
- "Five period measures of longevity," *Demographic Research* Vol. 13(21): 547-558. Rostock, Germany: Max Planck Institute for Demographic Research, 2005.
- "Long-range trends in adult mortality," *Demography*, 42 (1): 23-49, 2005.
- "Population aging and the rising cost of public pensions," *Population and Development Review* 30 (1): 1-23, 2004.
- "Population policies: Demographic aspects of," in Stephen G. Post (ed.), *Encyclopedia of Bioethics*, 3rd edition. New York: Macmillan Reference USA. Vol. 4, pp. 2083-2087, 2004.
- "Demographic change and the challenges to sustainability," in *A Transition to Sustainability in the 21st Century*, Proceedings of the World Conference of Scientific Academies: InterAcademy Panel on International Issues, 16-19 May, 2000. Washington, D.C.: National Academy Press, pp. 23-27, 2003.
- "Estimating mean lifetime," in *Proceedings of the National Academy of Sciences*, vol. 100, no. 23, pp. 13127-13133, 2003.
- "Completing the fertility transition in the developing world: The role of educational differences and fertility preferences," *Population Studies*, Vol. 57(3): 321-336, 2003.
- "Fertility, proximate determinants of," in Paul Demeny and Geoffrey McNicoll (eds.), *Encyclopedia of Population*. New York: Macmillan Reference, pp. 412-417, 2003.
- "Population forecasts," in Lester Breslow (ed.), *Encyclopedia of Public Health*, New York: Macmillan Reference USA, Gale Group, 2002., p. 942. 2002.
- "The end of the fertility transition in the developing world," *Completing the Fertility Transition*. Department of Economic and Social Affairs, Population Division, ESA/P/WP.172/Rev.1. New York: United Nations, pp. 288-307, 2002.
- "The end of the fertility transition in the developed world," *Population and Development Review* 28(3): 419-433, 2002.
- "Future population trends," in International Food Policy Research Institute, *Sustainable Food Security for All by 2020: Proceedings of an International Conference*, September 4-6, 2001, Bonn, Germany (Washington, DC: IFPRI 2002).

“Dependency burdens in the developing world,” in Nancy Birdsall, Allen C. Kelley and Steven Sinding (eds.), *Population Matters: Demographic change, economic growth, and poverty in the developing world*, New York: Oxford University Press, pp. 55-64, 2002.

“How long do we live?” *Population and Development Review* 28(1): 13-29, March 2002, (with Griffith Feeney).

“Living arrangements of older adults in the developing world: An analysis of demographic and health survey household surveys,” *Journal of Gerontology: SOCIAL SCIENCES* Vol. 57B, No. 3: S145-S157, 2002, (with Zachary Zimmer).

“Future trends in contraceptive prevalence and method mix in the developing world,” *Studies in Family Planning* 33(1): 24-36, 2002, (with Elof Johannson).

“Population: Ignoring its Impact,” *Scientific American*, 286 (1): 67-69, January, 2002.

“Household size and composition in the developing world in the 1990s,” *Population Studies* 55: 263-279, December, 2001.

“Fertility change, quantum and tempo,” in N. Smelser and P. Baltes, *International Encyclopedia of Social and Behavioral Sciences*. Oxford: Elsevier Science Ltd. Volume 8, pp. 5522-5525, 2001.

“Population Growth and Policy Options in the Developing World” in Per Pinstrup-Andersen and Rajul Pandya-Lorch (eds.), *The Unfinished Agenda: Perspectives on Overcoming Hunger, Poverty, and Environmental Degradation*, Washington, D.C.: IFPRI, 2001.

Review of “Population and Climate Change,” *Environment, Science & Technology*, September 1st, 2001.

“Fertility and reproductive preferences in post-transitional societies,” in John Casterline and Rodolfo Bulatao (eds.), *Population and Development Review Supplement: Global Fertility Transition*, pp. 260-281, October, 2001.

“Prospects for fertility decline and implications for population growth in South Asia,” in Zeba Sathar and James Phillips (eds.), *Fertility Transition in South Asia*. New York: Oxford University Press, pp. 401-422, 2001, (with Sajeda Amin).

“A population commotion,” letter to the Editor, *Foreign Policy*, July-August 2001.

“On the quantum and tempo of fertility: Reply,” *Population and Development Review* 26(3):560-564, 2000, (with Griffith Feeney) .

“The potential role of contraception in reducing abortion,” *Studies in Family Planning* 31 (3): 193-202, 2000, (with Charles Westoff).

“On the quantum and tempo of fertility,” in Chinese in *Renkou Yanjiu* (Population Research), Vol. 24, No.1, 2000, (with Griffith Feeney)

“The fertility impact of changes in the timing of childbearing in the developing world,” *Population Studies* 53:277-289, 1999.

“Population Momentum,” in Andrew Mason, Thomas Merrick, and R. Paul Shaw, (eds.), *Population Economics, Demographic Transition, and Development, Research and Policy Implications*. A World Bank Working Paper. Washington: IBRD/World Bank, pp. 3-15, 1999.

“Completing the demographic transition,” *Population and Development Review* 25(3):515-529, 1999, (with Rodolfo Bulatao).

“The paradox of transition: Unwanted childbearing in the developing world,” *ORGYN* 10(3): 14-17, 1999.

“Fertility decline in the developed world: Where will it end?” *American Economic Review* 89(2): 256-260, June, 1999.

“Population growth and policy options in the developing world,” *Development Bulletin* 47. Canberra, Australia: Australian National University, Research School of Social Sciences, pp. 21-23, Jan. 1999, (with Judith Bruce).

“Demographic consequences of declining fertility,” *Science*, 282, pp. 419-420, 16 October, 1998.

“The population explosion is not over,” letter to the Editor, *The New York Times*, July 15, 1998.

“On the quantum and tempo of fertility,” *Population and Development Review* 24(2):271-291, 1998, (with Griffith Feeney).

“Can the growing human population feed itself?” *The Earthscan Reader in Population and Development*, P. Demeny and G. McNicoll (eds.), London: Earthscan Publications, Ltd. pp. 306-312, 1998.

“Population policy options in the developing world,” 2020 Brief, A Vision for Food, Agriculture and the Environment. IFPRI, Oct., 1998, (with Judith Bruce).

“Adolescent Reproductive Behavior in the Developing World,” *Studies in Family Planning*, 29(2) June, 1998. Special issue based on a National Academy of Sciences Workshop, (with Barney Cohen, [eds.]).

“Introduction and Overview,” *Studies in Family Planning* 29(2): 99-116, 1998, (with Barney Cohen).

“Genug Nahrung für zehn Milliarden Menschen?” *Spektrum der Wissenschaft*, Dossier2: Welternährung (April):34-39. [German translation of a 1994 article titled “Can the growing human population feed itself?” *Scientific American* 270(3):18-24,] 1997.

“Population pressure and the food supply system in the developing world,” *Estudios Demográficos y Urbanos*, Fall, 1997.

“The role of family planning programmes in contemporary fertility transitions,” in Gavin W. Jones, Robert M. Douglas, John C. Caldwell, and Rennie M. D’Souza (eds.), *The Continuing Demographic Transition*. Oxford: Clarendon Press, pp. 422-444, 1997.

“Trends in unwanted childbearing in the developing world,” *Studies in Family Planning* 28(4):267-277, 1997.

- “Global warming policy: Population left out in the cold,” *Environment* 39(9):40-41, 1997, (with Brian C. O’Neill and Stuart R. Gaffin).
- “Social interactions and contemporary fertility transitions,” *Population and Development Review* 22, no. 4: 639–682, 1996. (with Susan Cotts Watkins).
- “Population pressure and the food supply system in the developing world,” *Population and Development Review* 22, no. 3: 483–503, 1996.
- “Global trends in AIDS mortality,” *Population and Development Review* 22, no. 1: 21–45, 1996. Reprinted in Wolfgang Lutz (ed.), *The Future Population of the World: What Can We Assume Today?*, revised edition. London: Earthscan Publications, 1996.
- “Wanted fertility in Latin America: Trends and differentials in seven countries,” in José Miguel Guzmán, Susheela Singh, Germán Rodríguez, and Edith A. Pantelides (eds.), *The Fertility Transition in Latin America*, pp. 227–241. Oxford: Clarendon Press, 1996. (with Robert Lightbourne).
- “Living heavily on the Earth: A conversation on population,” *21stC* 2, no. 1: 5–6, 1996. Expanded version published on the World Wide Web at <http://www.columbia.edu/cu/21stC/issue2.1/popcon.htm>. (with Joel E. Cohen and Allan Rosenfield).
- “The question of access: Response [to Ross],” *Studies in Family Planning* 26, no. 4: 243–244, 1995, (with Judith Bruce).
- “The causes of unmet need for contraception and the social content of services,” *Studies in Family Planning* 26, no. 2: 57–75, 1995, (with Judith Bruce).
- “Global and regional population projections to 2025,” in Nurul Islam (ed.), *Population and Food in the Early Twenty-First Century: Meeting Future Food Demands of an Increasing Population*, Ch. 2, pp. 7–16. Washington, DC: International Food Policy Research Institute, 1995.
- “Building a family: Unplanned events,” in David M. Newman (ed.), *Sociology: Exploring the Architecture of Everyday Life, Readings*, pp. 314–320. Thousand Oaks, CA: Pine Forge Press, 1995.
- “Population policy options in the developing world,” *Science* 263: 771–776, 1994. Reprinted in Gerald R. Pitzl (ed.), *Annual Editions: Geography, 1995/96*, pp. 198–203. Guilford, CT: Dushkin Publishing Group, 1995.
- “Can the growing human population feed itself?” *Scientific American* 270, no. 3: 18–24, 1994. Reprinted in three different volumes of the *Annual Editions* series published by the Dushkin Publishing Group, Guilford, CT: *Annual Editions: Geography, 95/96*, edited by Gerald R. Pitzl (1995); *Annual Editions: Global Issues, 96/97*, edited by Robert M. Jackson (1996); *Annual Editions: World History, 96/97*, edited by David McComb, 1996.
- “Projection of the mortality impact of AIDS in Africa,” in Wolfgang Lutz (ed.), *The Future Population of the World: What Can We Assume Today?*, pp. 187–205. London: Earthscan, for the International Institute for Applied Systems Analysis, 1994.
- “Future population growth and global warming,” in United Nations, Department for Economic and Social Information and Policy Analysis, *Population, Environment and Development*, pp. 280–285. New York: United Nations, 1994.
- “Demographic transition,” in *The Encyclopedia of the Environment*. Boston: Houghton Mifflin, 1994.

- “The impact of population policies: Comment [on Pritchett],” *Population and Development Review* 20, no. 3: 616–620, 1994.
- “The impact of the proximate determinants of fertility: A comment on Reinis,” *Population Studies* 48: 159–160, 1994.
- “The supply–demand framework for the determinants of fertility: An alternative implementation,” *Population Studies* 47, no. 3: 437–456, 1993.
- “The fertility impact of family planning programs,” in Pramilla Senanayake and Ronald L. Kleinman (eds.), *Family Planning: Meeting Challenges: Promoting Choices* (The Proceedings of the IPPF Family Planning Congress, New Delhi, October 1992), pp. 51–70. Pearl River, NY: The Parthenon Publishing Group, 1993.
- “Relative contributions of biological and behavioral factors determining natural fertility,” in R.H. Gray et al. (eds.), *Biomedical and Demographic Determinants of Reproduction*. Oxford: Oxford University Press, 1993.
- “Les effets inhibiteurs des variables intermédiaires de la fécondité,” *Politiques de Population* 5, no. 2: 61–92, 1993.
- “Une méthode simple d’estimation de la prévalence de la contraception requise pour atteindre un objectif de fécondité,” *Politiques de Population* 5, no. 2: 93–118, 1993.
- “Population growth and the food supply: Conflicting perspectives,” Research Division Working Paper No. 53. New York: Population Council, 1993. Shorter version appeared in 1994 in *Scientific American*.
- “Population growth and global warming,” *Population and Development Review* 18, no. 2: 299–319, 1992.
- “Do reproductive intentions matter?” *International Family Planning Perspectives* 18, no. 3, 1992.
- “The fertility inhibiting effects of the intermediate fertility variables” in A. Hill and W. Brass (eds.), *The Analysis of Maternity Histories*. Liège: Derouaux–Ordina Editions, 1992.
- “Measuring the unmet need for contraception: A reply [to Westoff],” *Population and Development Review* 18, no. 1: 126–127, 1992.
- “Fertility policy in China: Future options” in Dudley L. Poston, Jr., and David Yaukey (eds.), *The Population of Modern China*. New York: Plenum Press, 1992, (with Susan Greenhalgh).
- “Fecundidad deseada en América Latina: Tendencias y diferenciales en siete países,” *Notas de Población* No. 55: 79–102, 1992. English version appeared in 1996, (with Robert Lightbourne).
- “The KAP-gap and the unmet need for contraception.” *Population and Development Review* 17, no. 2: 293–313, 1991.
- “A new method for estimating contraceptive failure rates,” in *Measuring the Dynamics of Contraceptive Use*, pp. 52–67. New York: United Nations, 1991, (with German Rodriguez).
- “Behavioural and biological determinants of fertility transition in sub-Saharan Africa,” *Statistics in Medicine* 10, 161–175, 1991, (with Odile Frank).
- “The measurement of wanted fertility,” *Population and Development Review* 16, no. 3: 487–506, 1990.

- “The proximate determinants of fertility in sub-Saharan Africa,” in G. Acsadi et al. (eds.), *Population Growth and Reproduction in sub-Saharan Africa*, pp. 133–143. Washington, D.C.: World Bank, 1990, (with Odile Frank and Ron Lesthaeghe).
- “The demographic impact of family planning programs,” *Studies in Family Planning* 21, no. 6: 299–310, 1990, (with W. Parker Mauldin and James F. Phillips).
- “The relationship between male circumcision and HIV infection in African populations,” *AIDS* 3, no. 6: 373–377, 1989, (with P. Reining, P. Way, and F. Conant)..
- “The demographic determinants of the duration and incidence of widowhood,” in C. Hohn et al. (eds), *The Demography of the Later Phases of the Life Cycle*. New York: Oxford University Press, 1989.
- “The demographic impact of AIDS in Africa,” *Dying for Love: New Perspectives on Human Reproduction*, symposium papers. Washington, DC: National Council for International Health, 1989.
- “A model of the spread of HIV infection and the demographic impact of AIDS,” *Statistics in Medicine* 8: 103–120, 1989.
- “Geographic variations in the HIV epidemic and the mortality impact of AIDS in Africa,” in *[Proceedings of the IUSSP] International Population Conference, New Delhi 1989*, vol. 1, pp. 391–402. Liège, Belgium: International Union for the Scientific Study of Population, 1989, (with Peter Way).
- “Modeling the demographic impact of AIDS in Africa,” in R. Kulstad (ed.), *AIDS 1988: AAAS Symposia Papers*. Washington, DC: AAAS Press, 1988.
- “Demographic foundations of family change,” *American Sociological Review* 52: 346–358, 1987, (with Jane Menken).
- “The biological and behavioral determinants of exceptional fertility levels in Africa and West Asia,” in *Proceedings of the IUSSP African Population Conference*. Liège: Ordina, 1988, (with Odile Frank).
- “Does family planning reduce infant mortality? Reply [to comments by Potter and Trussell],” *Population and Development Review* 14, no. 1: 188–190, 1988.
- “Does family planning reduce infant mortality rates?” *Population and Development Review* 13, no. 2: 323–334, 1987.
- “The projection of family composition over the life course with family status life tables” in John Bongaarts, Thomas K. Burch and Kenneth W. Wachter (eds.), *Family Demography: Methods and Their Application*. Oxford: Clarendon Press, 1987.
- “The proximate determinants of fertility,” in George Zeidenstein (ed.), *Technology and the Regulation of Human Fertility*, special edition of *Technology and Society* 9, no. 3/4: 243–260, 1987.
- “Continuities and changes in the American family: A demographic view,” *American Sociological Review* 52, no. 3, 1987, (with Susan Cotts Watkins and Jane Menken).
- “Fertility policy in China: Future options,” *Science* 235: 1167–1172, 1987, (with Susan Greenhalgh).
- “The proximate determinants of exceptionally high fertility,” *Population and Development Review* 13, no. 1: 133–139, 1987.

- “The Population Council Target-Setting Model: A user’s manual,” Center for Policy Studies, Working Paper No. 130. New York: Population Council, 1986, (with John Stover).
- “Contraceptive use and annual acceptors required for fertility transition: Results of a projection model,” *Studies in Family Planning* 17, no. 5: 209–216, 1986.
- “The transition in reproductive behavior in the Third World,” in Jane Menken (ed.), *World Population and U. S. Policy: The Choices Ahead*. New York: W.W. Norton, 1986.
- “A comment on the determinants of !Kung fertility,” in W.P. Handwerker (ed.), *Culture and Reproduction: An Anthropological Critique of Demographic Transition Theory*. Boulder, CO: Westview Press, 1986.
- “The prevalence method for estimating the gross fertility impact of a family planning programme” in *The Methodology of Measuring the Impact of Family Planning Programmes on Fertility: An Addendum in Manual IX*. New York: United Nations, 1986.
- “An alternative to the one-child family in China,” *Population and Development Review* 11, no. 4: 585–617, 1985, (with Susan Greenhalgh).
- “What more can be learned from future fertility surveys about the proximate determinants of fertility?” *International Family Planning Perspectives* 22, no. 3: 86–90, 1985.
- “Demographic and other factors of the family life cycle: Overview,” in [*Proceedings of the International Population Conference, Florence 1985*, p. 203. Liège,: Derouaux for the International Union for the Scientific Study of Population, 1985.
- “Nutrition and lactational amenorrhea: A comment on Hodgson,” *Medical Anthropology Quarterly* 16, no. 2: 40, 1985.
- “A note on gross and net programme effects” in *Studies to Enhance the Evaluation of Family Planning Programs*, p. 126. New York: United Nations, 1985, (with I. Sirageldin).
- “A prevalence model for evaluating the fertility effect of family planning programmes: Age and method specific results” in *Studies to Enhance the Evaluation of Family Planning Programmes*, p. 101. New York: United Nations, 1985.
- “The concept of potential fertility in the evaluation of the fertility impact of family planning programmes,” in *Studies to Enhance the Evaluation of Family Planning Programmes*, pp. 40–49. New York: United Nations, 1985.
- “The fertility inhibiting effects of the intermediate fertility variables,” in F.C. Shorter (ed.), *Population Factors in Development Planning in the Middle East*, pp. 152–169. New York: Population Council, 1984.
- “The proximate determinants of fertility in sub-Saharan Africa,” *Population and Development Review* 10, no. 3: 511–537, 1984, (with Odile Frank and Ron Lesthaeghe).
- “Implications of future fertility trends for contraceptive practice,” *Population and Development Review* 10, no. 3: 341–352, 1984.
- “A simple method for estimating the contraceptive prevalence level required to reach a future fertility target,” *Studies in Family Planning* 15, no. 4: 184–190, 1984.

- “Building a family: Unplanned events,” *Studies in Family Planning* 15, no. 1: 14–18, 1984.
- “The formal demography of families and households: An overview,” *IUSSP Newsletter* no. 17 (January–April 1983): 27–42.
- “The proximate determinants of natural marital fertility,” in Rodolfo A. Bulatao and Ronald D. Lee, with Paula E. Hollerbach and John Bongaarts (eds.), *Determinants of Fertility in Developing Countries: A Summary of Knowledge*. New York: Academic Press, 1983.
- “The supply of children” in Rodolfo A. Bulatao and Ronald D. Lee, with Paula E. Hollerbach and John Bongaarts (eds.), *Determinants of Fertility in Developing Countries: A Summary of Knowledge*. New York: Academic Press, 1983, (with Jane Menken).
- “The relationship between prevalence of contraceptive use and fertility” in A. Hermalin and B. Entwisle (eds.), *The Role of Surveys in the Analysis of Family Planning Programs*. Liège, Belgium: Ordina Editions, 1982, (with S. Kirmeyer).
- “The fertility-inhibiting effects of the intermediate fertility variables,” *Studies in Family Planning* 13, no. 6/7 (1982): 179–189.
- “Fertility: The proximate determinants,” in John Ross (ed.), *International Encyclopedia of Population*. New York: Macmillan and Free Press, 1982.
- “Infertility after age 30: A false alarm,” *Family Planning Perspectives* 14, no. 2 (1982).
- “Malnutrition and fertility,” *Science* 215, no. 4537 (1982).
- “Not so unresolved: A reply,” *Family Planning Perspectives* 14, no. 5 (1982).
- “Repeat abortion in the United States: New insights,” *Studies in Family Planning* 13, no. 12 (1982): 373–379, (with Christopher Tietze).
- “The concept of potential fertility and its application in the estimation of the fertility impact of family planning programmes” in *Evaluation of the Impact of Family Planning Programmes on Fertility: Sources of Variance*. New York: United Nations, 1982.
- “Involuntary childlessness with increasing age,” *Research in Reproduction* Vol. 14, No. 4, Oct. 1982. London: IPPF
- “Socio-biological factors in exposure to childbearing: Breastfeeding,” in *World Fertility Survey Conference, 1980: Record of Proceedings*. 1982. Also published in *Studies in Family Planning* 12, no. 3 (1981): 79, (with Anrudh Jain).
- “Demographic responses to famine” in K. Cahill (ed.), *Famine*. New York: Orbis Press, 1982, (with Mead Cain).
- “Simulations of the family life cycle,” in *International Population Conference, Manila 1981: Solicited Papers*, vol. 3, pp. 399–416. Liège.: International Union for the Scientific Study of Population, 1981.
- “The impact on fertility of traditional and changing childspacing practices in tropical Africa” in R. Lesthaeghe and H. Page (eds.), *Childspacing in Tropical Africa: Tradition and Change*. New York: Academic Press, 1981.
- “Malnutrition and fecundity,” *Studies in Family Planning* 11, no. 12 (1980): 401–406.

- “Does malnutrition affect fecundity? A summary of evidence,” *Science* 208, no. 9 (1980): 564.
- “Fertility effect of seasonal migration and seasonal variation in fecundability: Test of a useful approximation under more general conditions,” *Demography* 16 (1979): 475, (with R. Potter).
- “Effect of maternal nutritional status and infant supplementation during lactation on postpartum amenorrhea,” *American Journal of Obstetrics and Gynecology* 135 (1979): 303, (with Hernan Delgado et al.).
- “Effects of nutritional status on fertility in rural Guatemala” in Jane Menken et al. (eds.), *Patterns and Determinants of Natural Fertility*. Liège, Belgium: Ordina Editions, 1979, (with Hernan Delgado).
- “A framework for analyzing the proximate determinants of fertility,” *Population and Development Review* 4, no. 1 (1978): 105.
- “Reproductive models in the study of nutrition–fertility interrelationships,” in H. Mosley (ed.), *Nutrition and Human Reproduction*, p. 261. New York: Plenum Press, 1978, (with Jane Menken).
- “Effects of nutritional status on fertility,” in *International Population Conference, Mexico 1977 [Solicited Papers]*, vol. 1, pp. 17–31. Liège, Belgium: International Union for the Scientific Study of Population, 1977, (with Hernan Delgado).
- “The efficiency of menstrual regulation as a method of fertility control,” *Studies in Family Planning* 8, no. 10 (1977): 268, (with Christopher Tietze).
- “A dynamic model of the reproductive process,” *Population Studies* 31, no. 6 (1977): 59.
- “Mortality associated with the control of fertility,” *Family Planning Perspectives* 8, no. 1 (1976): 6, (with Christopher Tietze and B. Schearer).
- “Intermediate fertility variables and marital fertility rates,” *Population Studies* 30, no. 2 (1976): 227.
- “The demographic effect of induced abortion,” *Obstetrical and Gynecological Survey* 31, no. 10 (1976): 699, (with Christopher Tietze).
- “Why high birth rates are so low,” *Population and Development Review* 1, no. 2 (1975): 289.
- “A method for the estimation of fecundability,” *Demography* 12, no. 4 (1975): 645.
- “Contraceptive practice required to meet a prescribed crude birth rate target: A proposed macro-model (TABRAP) and hypothetical illustrations,” *Demography* 12, no. 3 (1975): 471, (with D. Nortman).
- “Fertility rates and abortion rates: Simulations of family limitations,” *Studies in Family Planning* 6, no. 5 (1975): 114, (with Christopher Tietze).
- “A review of the population model in the limits to growth,” *Studies in Family Planning* 2, no. 12 (1973): 327.
- “A systems model for the reproductive process in human populations,” in *Proceedings of the Fourth Annual Pittsburgh Conference on Modeling and Simulation, University of Pittsburgh, 1973*, p. 363, (with William D. O’Neill).

“A systems model for the population renewal process,” *Demography* 9, no. 2 (1972): 309, (with William D. O’Neill).

“Probabilistic characterizations of R–R intervals,” *Cardiovascular Research* 3, no. 2 (1969): 218, (with M. TenHoopen).

Books and edited volumes:

(Co-editor with Rodolfo A. Bulatao). *Beyond Six Billion: Forecasting The World’s Population*. National Research Council, Washington, DC: National Academy Press, 2000.

(Co-editor with Thomas K. Burch and Kenneth W. Wachter). *Family Demography: Methods and Their Applications*. Oxford: Clarendon Press, 1987.

Fertility, Biology and Behavior: An Analysis of the Proximate Determinants. New York: Academic Press, 1983, (with R.G. Potter).

(Co-editor with Rodolfo A. Bulatao and Ronald D. Lee, with Paula E. Hollerbach). *Determinants of Fertility in Developing Countries: A Summary of Knowledge*. New York: Academic Press, 1983.

Model Relationships Between Birth Rates and Birth Control Practice. New York: Population Council, 1978, (with D. Nortman et al.).