

CURRICULUM VITAE

Wolfgang Lutz

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PERSONAL INFORMATION

Born 10 December 1956 in Rome (Italy) as son of the Historian Heinrich Lutz and his wife Waltraud.

First German, since 1968 Austrian citizenship.

Married to Johanna Uljas-Lutz (Finnish citizen), Lutheran minister and psychotherapist.

Two children: Matti (1985) and Sebastian (1988).

CURRENT POSITIONS

Founder and Director of the **Wittgenstein Centre for Demography and Global Human Capital**, based on the Wittgenstein Prize 2010 and created as a collaboration between IIASA (International Institute for Applied Systems Analysis), Vienna Institute of Demography (VID) of the Austrian Academy of Sciences, and the Vienna University of Economics and Business (WU).

Employment:

Director, World Population Program (part-time), IIASA (International Institute for Applied Systems Analysis), Laxenburg, Austria. (Employed at IIASA since 1984, Deputy Program Leader under Nathan Keyfitz since 1988, Program Director since 1994).

Director, Vienna Institute of Demography (VID) of the Austrian Academy of Sciences, Vienna, Austria (since 2002).

Full Professor of Social and Economic Statistics (part time), Vienna University of Economics and Business (WU).

Other Current Functions:

Professorial Research Fellow at **Oxford Martin School, University of Oxford, UK.**

Associate Member, **Nuffield College, University of Oxford, UK.**

Member of the **Committee on Population, US National Academy of Sciences.**

Lead Author, **IPCC (Intergovernmental Panel on Climate Change)**, Working Group III

Affiliated Professor at the College of Population Studies, **Chulalongkorn University**, Bangkok, Thailand.

Honorary Professor of the **University of Shanghai**

Member, Board of Directors (Stiftungsrat), **Berlin Institute for Population and Development**, Germany.

Member, Board of Trustees (Kuratorium), **Federal Institute for Population Research**, Germany.

Visiting Research Fellow, **Stellenbosch Institute for Advanced Study (STIAS)**, South Africa.

Editor, *Vienna Yearbook of Population Research*.

Editorial Committee Member, *Asian Population Studies*, Routledge.

Editorial Committee Member, *Journal of Population Ageing*, Springer.

Editorial Board Member, *Demographic Research*, an on-line journal of the Max Planck Institute for Demographic Research.

Editorial Board Member, *European Population Studies*, the official journal of the European Association for Population Studies (EAPS).

Editorial Board Member, *Canadian Studies in Population*, Population Research Laboratory, University of Alberta.

Advising Board Member, *Population and Development Review*.

RECENT AWARDS

2014 Elected to the World Academy of Sciences (TWAS).

2014 Elected to the Finish Society of Sciences and Letters (Societas Scientiarum Fennica).

2013 Elected to the Leopoldina- German National Academy of Sciences as Full Member. Deputy member to the Senate of the Leopoldina since 2015.

2012 Elected to the Austrian Academy of Sciences as Full Member (Corresponding Member since 2008).

2012 European Research Council Proof of Concept (PoC) Grant “Demography-based market forecasting tools” (“FUTURE MARKETS”).

2010 Wittgenstein Award Laureate (often referred to as the “Austro Nobel Prize”) is the highest science prize in Austria. It is awarded annually by the Austrian Federal Ministry of Education, Science and Culture for outstanding scientific achievements in all scientific disciplines. For the first time, the 2010 award went to a social scientist.

2009 Mattei Dogan Award of the IUSSP (International Union for the Scientific Study of Population). This prestigious award is only given once every four years to a globally leading scholar in comparative demographic analysis.

2008 European Research Council Advanced Investigator Grant. 2.5 million Euro to study “Forecasting societies’ adaptive capacity to climate change” (“Future Societies”). Lutz was the only German-speaking social scientist to win this highest European science award.

PREVIOUS POSITIONS AND FUNCTIONS

2013 NUSS Distinguished Visiting Professor, **National University of Singapore (NUS)**.

2007 Senior Visiting Fellow, **Oxford Institute of Ageing**, Oxford University.

2004-2010 Member, Board of Directors, **Population Reference Bureau**, Washington D.C., USA.

2003-2008 Member, Board of Directors (Kuratorium), **Max Planck Institute for Demographic Research**, Rostock, Germany.

2002-2009 Deputy Chair, Board of Directors, and Chair of the Scientific Program Committee, **African Population and Health Research Center (APHRC)**, Nairobi, Kenya.

2002-2007 Editor, Earthscan scientific book series on **Population and Sustainable Development**.

- 2001-2002 Initiator and Coordinator, **Global Science Panel** on Population and Environment (sponsored by the IUSSP, IIASA, and the United Nations University).
- 1999-2006 Initiator and Principal Investigator, **Asian MetaCentre** for Population and Sustainable Development Analysis (funded by the Wellcome Trust as a regional Centre of Excellence under its “Health Consequences of Population Change” Programme) with headquarters at the National University of Singapore.
- 1999-2004 Scientific Coordinator, **EU Observatory for the Social Situation, Demography and the Family**, an official body of the European Commission.
- 1998-2001 **Secretary General**, International Union for the Scientific Study of Population (**IUSSP**).
- 1995-1998 Research Director, Austrian Institute for Family Studies, Vienna.
- 1984 Visiting Scholar at the World Fertility Survey in London.
- 1983-1985 Research Associate, Demographic Institute of the Austrian Academy of Sciences; Lecturer in Social and Economic Statistics at the University of Vienna.
- 1981-1982 Research assistant at the Population Studies Center/Graduate Group in Demography of the University of Pennsylvania, USA.
- 1980-1981 Visiting scholar at the Demographic Department of the Finnish Central Statistical Office in Helsinki.

EDUCATIONAL ATTAINMENT

- 1975 Graduation from Schottengymnasium der Benediktiner (classical language school) in Vienna.
Studies in Philosophy, Mathematics and Theology at the University of Munich, Germany.
- 1980 Magister rerum socialium oeconomicarumque (M.A.) in Social and Economic Statistics at the University of Vienna.
Cand. theol. at the Faculty of Theology, University of Vienna.
- 1982 M.A. in Demography at the University of Pennsylvania, USA.
- 1983 **Ph.D. (with distinction) in Demography at the University of Pennsylvania.**
- 1988 Habilitation (= second doctorate; right to teach and apply for a chair at the university) in Demography and Social Statistics at the University of Vienna.

SUMMARY OF PUBLICATIONS

- **23 scientific books** (including 2 single author books, 3 co-authored books, and 18 edited volumes and special issues of scientific journals).
- **11 scientific monographs and booklets** (including 2 *Population Bulletins* of the Population Reference Bureau).
- **238 articles in scientific journals and chapters in refereed books (several more accepted).**
- More than 100 book reviews, commentaries and other non-refereed scientific contributions.

PUBLICATIONS IN TOP JOURNALS

Science and Nature:

- Lutz, W., R. Muttarak, and E. Striessnig. 2014. Universal education is key to enhanced climate adaptation. *Science* 346(6213):1061-1062. (28 November 2014).
- Lutz, W. and S. KC. 2011. Global human capital: Integrating education and population. *Science* 333: 587-592.
- Lutz, W., J. Crespo Cuaresma, and W. Sanderson. 2008. The demography of educational attainment and economic growth. *Science* 319: 1047-1048.
- Lutz, W., W. Sanderson, and S. Scherbov. 2008. The coming acceleration of global population ageing. *Nature* 451: 716-719.
- Lutz, W., S. Kritzing, and V. Skirbekk. 2006. The demography of growing European identity. *Science* 314: 425.
- Lutz, W., B.C. O'Neill, and S. Scherbov. 2003. Europe's population at a turning point. *Science* 299: 1991-1992.
- Lutz, W., W. Sanderson, and S. Scherbov. 2001. The end of world population growth. *Nature* 412: 543-545.
- Lutz, W., W. Sanderson, and S. Scherbov. 1997. Doubling of world population unlikely. *Nature* 387: 803-805.

Letters to Editor of Science and Nature:

- Lutz, W., Butz, W., KC, S., Sanderson, W., and Scherbov, S. (2014). Population growth: Peak probability. *Science*, 346(6209), 561–561. doi:10.1126/science.346.6209.561-a, <http://www.sciencemag.org/content/346/6209/561.1.short>
- Lutz, W., Butz, W.P., Castro, M., Dasgupta, P., Demeny, P.G, Ehrlich, I., Giorguli, S., Habte, D., Haug, W., Hayes, A., Herrmann, M., Jiang, L., King, D., Kotte, D., Lees, M., Makinwa-Adebusoye, P.K., McGranahan, G., Mishra, V., Montgomery, M.R., Riahi, K., Scherbov, S., Peng, X., Yeoh, B. 2012. Demography's role in sustainable development (letter to the editor). *Science* 335(6071): 918.
- Lutz, W. and M. Shah. 2002. Population should be on the Johannesburg agenda (letter to the editor). *Nature* 418, 17 (4 July 2002). Other signatories are: R. E. Bilborrow, J. Bongaarts, P. DasGupta, B. Entwisle, G. Fischer, B. Garcia, D. J. Hogan, A. Jernelov, Z. Jiang, R. W. Kates, S. Lall, F. L. MacKellar, P. K. Makinwa-Adebusoye, A. J. McMichael, V. Mishra, N. Myers, N. Nakicenovic, S. Nilsson, B. C. O'Neill, X. Peng, H. B. Presser, N. Sadik, W. C. Sanderson, G. Sen, M. F. Strong, B. Torrey, D. van de Kaa, H. J. A. van Ginkel, B. Yeoh, H. Zurayk.

Philosophical Transactions:

- Lutz, W. and S. KC. 2010. Dimensions of global population projections: What do we know about future population trends and structures? *Phil. Trans. R. Soc. B* 365: 2779-2791.
- Lutz, W. 2009. Sola schola et sanitate: Human capital as the root cause and priority for international development? *Phil. Trans. R. Soc. B* 364: 3031-3047.
- Lutz, W. and Q. Ren. 2002. Determinants of human population growth. *Phil. Trans. R. Soc. Lond. B* 357: 1197-1210.

Population and Development Review (the leading population journal):

- Lutz, W. 2014. A population policy rationale for the twenty-first century. *Population and Development Review* 40 (3): 527-544.
- Lutz, W. 2012. Demographic metabolism: A predictive theory of socioeconomic change. *Population and Development Review* 38, *Population and Public Policy: Essays in Honor of Paul Demeny* (Supplement): 283-301.
- Scherbov, S., W. Lutz, and W.C. Sanderson. 2011. The uncertain timing of reaching 8 billion, peak world population, and other demographic milestones. *Population and Development Review* 37(3): 571-578.
- Pamuk, E.R, Fuchs, R., and W. Lutz. 2011. Comparing relative effects of education and economic resources on infant mortality in developing countries. *Population and Development Review* 37(4): 637-664.
- Lutz, W., J. Crespo Cuaresma, and M.J. Abbasi-Shavazi. 2010. Demography, education, and democracy: Global trends and the case of Iran. *Population and Development Review* 36(2): 253-281.
- Lutz, W. 2009. The demography of future global population aging: Indicators, uncertainty, and educational composition. *Population and Development Review* 35(2): 357-365.
- Prskawetz, A., D.E. Bloom, and W. Lutz, Eds. 2008. *Population Aging, Human Capital Accumulation, and Productivity Growth*. Supplement to *Population and Development Review*, Vol. 34, 2008. New York: Population Council.
- Lutz, W., A. Goujon, and A. Wils. 2008. The population dynamics of human capital accumulation. Pages 149-187 in A. Prskawetz, D.E. Bloom, and W. Lutz (eds.), *Population Aging, Human Capital Accumulation, and Productivity Growth*. Supplement to *Population and Development Review*, Vol. 34, 2008. New York: Population Council.
- Bloom, D.E., W. Lutz, and A. Prskawetz. 2008. Introduction. Pages 3-14 in A. Prskawetz, D.E. Bloom, and W. Lutz (eds.), *Population Aging, Human Capital Accumulation, and Productivity Growth*. Supplement to *Population and Development Review*, Vol. 34, 2008. New York: The Population Council.
- Lutz, W. and V. Skirbekk. 2005. Policies addressing the tempo effect in low-fertility countries. *Population and Development Review* 31(4): 699-720.
- Goldstein, J., W. Lutz, and S. Scherbov. 2003. Long-term population decline in Europe: The relative importance of tempo effects and generational length. *Population and Development Review* 29(4): 699-707.
- Lutz, W., A. Prskawetz, and W.C. Sanderson, Eds. 2002. *Population and Environment. Methods of Analysis*. Supplement to *Population and Development Review*, Vol. 28, 2002. New York: The Population Council.
- Lutz, W., A. Prskawetz, and W.C. Sanderson. 2002. Introduction. Pages 1-21 in Wolfgang Lutz, Alexia Prskawetz, and Warren C. Sanderson, eds. *Population and Environment. Methods of Analysis*. Supplement to *Population and Development Review*, Vol. 28, 2002. New York: The Population Council
- Lutz, W., S. Scherbov, A. Prskawetz, M. Dworak, and G. Feichtinger. 2002. Population, natural resources, and food security: Lessons from comparing full and reduced-form models. Pages 199-224 in Wolfgang Lutz, Alexia Prskawetz, and Warren C. Sanderson, eds. *Population and Environment. Methods of Analysis*. Supplement to *Population and Development Review*, Vol. 28, 2002. New York: The Population Council.
- Lutz, W., W.C. Sanderson, and A. Wils. 2002. Conclusions: Toward comprehensive P-E studies. Pages 225-250 in Wolfgang Lutz, Alexia Prskawetz, and Warren C. Sanderson, eds. *Population and Environment. Methods of Analysis*. Supplement to *Population and Development Review*, Vol. 28, 2002. New York: The Population Council.

- Lutz, W., M. Shah, R.E. Bilborrow, J. Bongaarts, P. Dasgupta, B. Entwisle, G. Fischer, B. Garcia, D.J. Hogan, A. Jernelov, Z. Jiang, R.W. Kates, S. Lall, F.L. MacKellar, P.K. Makinwa-Adebusoye, A.J. McMichael, V. Mishra, N. Myers, N. Nakicenovic, S. Nilsson, B.C. O'Neill, X. Peng, H.B. Presser, N. Sadik, W.C. Sanderson, G. Sen, B. Torrey, D. van de Kaa, H.J.A. van Ginkel, B. Yeoh, and H. Zurayk. 2002. The Global Science Panel on Population in Sustainable Development. *Population and Development Review* 28(2): 367-369.
- Lutz, W. and A. Goujon. 2001. The world's changing human capital stock: Multi-state population projections by educational attainment. *Population and Development Review* 27(2): 323-339.
- Lutz, W., J.W. Vaupel, and D.A. Ahlburg, Eds. 1999. *Frontiers of Population Forecasting*. A Supplement to Vol. 24, 1998, *Population and Development Review*. New York: The Population Council.
- Ahlburg, D.A. and W. Lutz. 1999. Introduction: The need to rethink approaches to population forecasts. Pages 1-14 in Wolfgang Lutz, James W. Vaupel, and Dennis A. Ahlburg (eds.), *Frontiers of Population Forecasting*. Supplement to *Population and Development Review*, Vol. 24, 1998. New York: Population Council.
- Lutz, W., A. Goujon, and G. Doblhammer-Reiter. 1999. Demographic dimensions in forecasting: Adding education to age and sex. Pages 42-58 in *Frontiers of Population Forecasting* (W. Lutz, J.W. Vaupel, and D.A. Ahlburg, eds.). A Supplement to Vol. 24, 1998, *Population and Development Review*. New York: The Population Council.
- Lutz, W., W.C. Sanderson, and S. Scherbov. 1999. Expert-based probabilistic population projections. Pages 139-155 in *Frontiers of Population Forecasting* (W. Lutz, J.W. Vaupel, and D.A. Ahlburg, eds.). A Supplement to Vol. 24, 1998, *Population and Development Review*. New York: The Population Council.
- Ahlburg, D.A., W. Lutz, and J.W. Vaupel. 1999. Ways to improve population forecasting: What should be done differently in the future? Pages 191-198 in *Frontiers of Population Forecasting* (W. Lutz, J.W. Vaupel, and D.A. Ahlburg, eds.). A Supplement to Vol. 24, 1998, *Population and Development Review*. New York: The Population Council.
- O'Neill, B.C., S. Scherbov, and W. Lutz. 1999. The long-term effect of the timing of fertility decline on population size. *Population and Development Review* 25(4): 749-756.
- MacKellar, F.L., W. Lutz, C. Prinz, and A. Goujon. 1995. Population, households and CO₂ emissions. *Population and Development Review* 21(4): 849-865.
- Lutz, W. and T. Büttner . 1990. Estimating fertility responses to policy measures in the German Democratic Republic. *Population and Development Review* 16(3): 539-555.

FULL LIST OF REFEREED SCIENTIFIC PUBLICATIONS

SCIENTIFIC BOOKS OR SPECIAL ISSUES OF SCIENTIFIC JOURNALS (authored, edited)

- (B1) *Finnish Fertility Since 1722: Lessons from an Extended Decline*. Helsinki: Finnish Population Research Institute, 1987. With preface by Ansley Coale – country study in the tradition of the Princeton European Fertility Project. (single author book)
- (B2) *Distributional Aspects of Human Fertility: A Global Comparative Study*. London: Academic Press, 1989. With preface by Nathan Keyfitz. (single author book)
- (B3) *Future Demographic Trends in Europe and North America: What Can We Assume Today?* W. Lutz, Editor. London: Academic Press, 1991.
- (B4) *Wohnen mit Kindern* (Living with Children). Coauthors: Maria Groh, Ernst Haider, Conny Krenn, Franz Kuzmich, Wolfgang Lutz, Tilmann Schleicher, Ottokar Uhl, Walter Winkelhofer, and Martin Wurnig. Vienna: Picus Verlag Wien (in German), 1992.

- (B5) *Demographic Trends and Patterns in the Soviet Union Before 1991*. W. Lutz, S. Scherbov, and A. Volkov, Editors. London: Routledge, 1994.
- (B6) *Population-Development-Environment. Understanding Their Interactions in Mauritius*. W. Lutz, Editor. Heidelberg: Springer Verlag, 1994.
- (B7) *The Future Population of the World. What Can We Assume Today?* W. Lutz, Editor. London: Earthscan, 1994.
- (B8) *The Future Population of the World. What Can We Assume Today?* W. Lutz, Editor. London: Earthscan, Revised Edition, 1996.
- (B9) *Future Population and Education Trends in the Countries of North Africa*. RR-96-11. Coauthors: H.M. Yousif, A. Goujon, and W. Lutz. Laxenburg, Austria: IIASA, 1996.
- (B10) *FAMSIM – Austria. A Dynamic Microsimulation Model for Projections and the Evaluation of Family Policies Based on the European Family and Fertility Survey*. W. Lutz, Editor. Vienna: Austrian Institute for Family Studies, 1997.
- (B11) *Frontiers of Population Forecasting*. W. Lutz, J.W. Vaupel, and D.A. Ahlburg, Editors. Supplement to *Population and Development Review*, Vol. 24, 1998. New York: Population Council, 1999.
- (B12) *Compendium of Family Studies in Austria 1999 (Kompendium der Familienforschung in Österreich 1999)*, No. 7. W. Lutz, Editor. Vienna: Austrian Institute for Family Studies, 1999.
- (B13) *Population, Development and Environment on the Yucatan Peninsula: From Ancient Maya to 2030*. W. Lutz, L. Prieto, and W. Sanderson, Editors. RR-00-14. Laxenburg, Austria: IIASA, 2000.
- (B14) *Population and Climate Change*. Principal Authors: B.C. O'Neill, F.L. MacKellar, and W. Lutz. Cambridge University Press, 2001.
- (B15) *Population and Environment. Methods of Analysis*. W. Lutz, A. Prskawetz, and W.C. Sanderson, Editors. Supplement to *Population and Development Review*, Vol. 28, 2002. New York: Population Council, 2002.
- (B16) *Population, Consumption, Environment*. Sara Curran, Tundi Agardy, Maria C.J. Cruz, Partha Dasgupta, Anuradha Kumar, Wolfgang Lutz, Meryl Williams, Elisabeth Kessler, and Melanie Adams, Editors. Special Issue of *Ambio* 31(4). Stockholm: Royal Swedish Academy of Sciences, 2002.
- (B17) *The End of World Population Growth in the 21st Century: New Challenges for Human Capital Formation and Sustainable Development*. Wolfgang Lutz, Warren C. Sanderson, and Sergei Scherbov, Editors. London: Earthscan, 2004.
- (B18) *How to Deal with Uncertainty in Population Forecasting?* Wolfgang Lutz and Joshua Goldstein, Guest Editors. Special issue of *International Statistical Review* 72(1&2): 1-106, 157-208, 2004. Reprinted as RR-04-009 by the International Institute for Applied Systems Analysis, Laxenburg, Austria.
- (B19) *The Demographic Window of Opportunity*. Angelique Chan, Wolfgang Lutz, and Jean-Marie Robine, Guest Editors. Special issue of *Asian Population Studies* 1(5): 147-256. Abingdon, UK: Routledge, 2005.
- (B20) *The New Generations of Europeans. Demography and Families in the Enlarged European Union*. Wolfgang Lutz, Rudolf Richter, and Chris Wilson, Editors. London: Earthscan, 2006.
- (B21) *Population Aging, Human Capital Accumulation, and Productivity Growth*. A. Prskawetz, D.E. Bloom, and W. Lutz, Editors. Supplement to *Population and Development Review*, Vol. 34, 2008. New York: Population Council, 2008.
- (B22) *World Population and Human Capital in the 21st Century*. W. Lutz, W.P. Butz, and S. KC, Editors. Oxford, UK: Oxford University Press.

- (B23) *Education and Differential Vulnerability to Natural Disasters*. B. Butz, W. Lutz, and J. Sendzimir, Editors. Special Feature of *Ecology and Society* 19 (1), March 2014. Online open access: <http://www.ecologyandsociety.org/issues/view.php/feature/73>

OTHER MONOGRAPHS AND BOOKLETS

- (M1) *Demographic Transition and Socio-Economic Development in Finland 1871-1978. A Multivariate Analysis*. Tilastokeskus, Helsinki, 81 pp., 1982.
- (M2) *Demographic, Economic, and Social Factors in the Evolution of Finnish Fertility 1722-1978*. Dissertation. University Microfilms, Ann Arbor, Michigan, 335 pp., 1983.
- (M3) *Parity-Specific Fertility Analysis. A World Fertility Survey Comparative Study*. Demographic Institute of the Austrian Academy of Sciences in collaboration with the International Statistical Institute (ISI), Vienna, 97 pp., 1985.
- (M4) Demographische Analyse der familienbezogenen Lebenszyklus österreichischer Frauen (Demographic analysis of the family-related life cycle of Austrian women). Coauthor: E. Aufhauser. Project Report. Institute of Demography of the Austrian Academy of Sciences, Vienna, 150 pp. (in German), 1987.
- (M5) *Population, Economy, and Environment in Mauritius*. W. Lutz and F.L. Toth, Editors. Proceedings of a Task Force Meeting held under the UNFPA-sponsored project "Population and Sustainable Development: Mauritius" at IIASA, 3-5 September 1990. IIASA Collaborative Paper CP-91-01, 331 pp., 1991.
- (M6) Germany's population: Turbulent past, uncertain future. Coauthors: G. Heilig, T. Büttner, and W. Lutz. *Population Bulletin* 45(4): 1-47. Population Reference Bureau, 1990.
- (M7) Struktur der Evangelischen in Österreich: Statistiken der Volkszählung 1981 nach politischen Bezirken (Structure of the Protestant population in Austria: Information from the 1981 census by political districts). In *Schriftenreihe des Evangelischen Bundes in Österreich*, Heft 118, 73 pp. (in German), 1990.
- (M8) The future of world population. *Population Bulletin* 49(1). Population Reference Bureau, 1994.
- (M9) *Familien- und Fertilitätssurvey (FFS) 1996. Österreich, Frauen und Männer*. (Family and Fertility Survey (FFS) 1996. Austria, Women and Men.) Tabellenband und Zusammenfassung erster Ergebnisse. Vienna: Austrian Institute for Family Studies. Coauthors: G. Doblhammer, W. Lutz, and C. Pfeiffer (in German), 1996.
- (M10) *Statistik aus Kinderperspektive. Kinderspezifische Auswertung der Volkszählung 1991*. Vienna: Austrian Institute for Family Studies. Coauthors: M. Beham, G. Denk, V. Nowak, and J. Pfliegerl (in German), 1997.
- (M11) *Fertility and Family Surveys in Countries of the ECE Region: Standard Country Report Austria*. Geneva: United Nations. Coauthors: C. Prinz, V. Nowak, and C. Pfeiffer, 1998.
- (M12) *Zukunft Denken - Werden es unsere Kinder besser haben?* (Thinking the Future - Will our Children be Better off?) Vienna, Austria: Galila Verlag. Coauthor: F. Fischler, (in German), 2014.

ARTICLES IN SCIENTIFIC JOURNALS AND CHAPTERS IN BOOKS

2014

- (A-238) Universal education is key to enhanced climate adaptation. *Science*, 346(6213):1061-1062 (28 November 2014). Coauthors: R. Muttarak and E. Striessnig
- (A-237) Population growth: Peak probability. *Science*, 346(6209), 561-561. doi:10.1126/science.346.6209.561-a, <http://www.sciencemag.org/content/346/6209/561.1.short> Coauthors: W. Butz, S. KC, W. Sanderson, and S. Scherbov

- (A-236) Demographic aspects of climate change mitigation and adaptation. *Population Studies*, in press. Coauthor: E. Striessnig
- (A-235) Reducing vulnerability in critical life course phases by enhancing human capital. Pages 151-194 in K. Malik (ed), *Safeguarding Human Progress: Reducing Vulnerabilities, Building Resilience*. New York, USA: UNDP Human Development Report Office. Coauthors: S. KC, E. Loichinger, R. Muttarak, and E. Striessnig.
- (A-234) Epilogue: Education changes our view of the future. Pages 628-649 in Lutz, W., Butz, W.P., and S. KC (eds), *World Population and Human Capital in the 21st Century*. Oxford, UK: Oxford University Press.
- (A-233) Alternative scenarios in the context of sustainable development. Pages 591-627 in Lutz, W., Butz, W.P., and S. KC (eds), *World Population and Human Capital in the 21st Century*. Oxford, UK: Oxford University Press. Coauthor: S. KC
- (A-232) Remeasuring 21st century population ageing. Pages 563-590 in Lutz, W., Butz, W.P., and S. KC (eds), *World Population and Human Capital in the 21st Century*. Oxford, UK: Oxford University Press. Coauthors: S. Scherbov, W. Sanderson, and S. KC
- (A-231) The rise of global human capital and the end of world population growth. Pages 519-562 in Lutz, W., Butz, W.P., and S. KC (eds), *World Population and Human Capital in the 21st Century*. Oxford, UK: Oxford University Press. Coauthor: S. KC
- (A-230) How education drives demography and knowledge informs projections. Pages 14-38 in Lutz, W., Butz, W.P., and S. KC (eds), *World Population and Human Capital in the 21st Century*. Oxford, UK: Oxford University Press. Coauthor: V. Skirbekk
- (A-229) Introduction. Pages 1-13 in Lutz, W., Butz, W.P., and S. KC (eds), *World Population and Human Capital in the 21st Century*. Oxford, UK: Oxford University Press. Coauthor: W. P. Butz
- (A-228) A population policy rationale for the twenty-first century. *Population and Development Review* 40 (3): 527-544.
- (A-227) Intergenerational tradeoffs, demographic metabolism, and the long term benefits of equitable empowerment in the near term. Pages 59-64 in *Can Earth's and Society's Systems Meet the Needs of 10 Billion People? Summary of a Workshop*. National Research Council, Washington, DC: The National Academies Press.
- (A-226) The human core of the shared socioeconomic pathways: Population scenarios by age, sex and level of education for all countries to 2100. *Global Environmental Change*, Article in press (Published online 4 July 2014). Coauthor: S. KC
- (A-225) Is the demographic dividend an education dividend? *Demography* 51(1): 299-315. (Online version A-221 published 4 December 2013). Coauthors: J. Crespo Cuaresma and W.C. Sanderson
- (A-224) Is education a key to reducing vulnerability to natural disasters and hence unavoidable climate change? *Ecology and Society* 19(1): 42. Doi:10.5751/ES-06476-190142. Coauthor: R. Muttarak
- (A-223) Demographic scenarios by age, sex and education corresponding to the SSP narratives. *Population and Environment* 35(3): 243-260. Coauthor: S. KC
- (A-222) How does education change the relationship between fertility and age-dependency under environmental constraints? A long-term simulation exercise. *Demographic Research* 30: 465-492. doi:10.4054/DemRes.2014.30.16 Coauthor: E. Striessnig

2013

- (A-221) Very long range global population scenarios to 2300 and the implications of sustained low fertility. *Demographic Research* 28(39): 1145-1166. Coauthors: S. Basten and S. Scherbov

- (A-220)Demography and human development: Education and population projections. Pages 113-140 in Malik, K. and M. Kugler (eds), *Human Progress and the Rising South*. New York, USA: UNDP Human Development Report Office. Coauthor: S. KC
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